

## OFFICE OF SCIENCE

## Information Management for Office of Science (IMSC)

## Listing of Active Awards for State (AK)

Award Number /  
Project End /  
Pr. Investigator

Funding (in Thousands)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	FY 2010
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-08ER46502 06/30/2012 Deal	SC-22.21	Influence of Sea Ice on Arctic Marine Sulfur Biogeochemistry in the Community Climate System Model	11
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-09ER46628 08/14/2012 Zhang	SC-22.21	Novel Dense Membranes for Hydrogen Separation for Energy Applications	15
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-09ER46629 08/14/2012 Bhatt	SC-22.21	Characterization of the Dynamics of Climate Systems and Identification of Missing Mechanisms Impacting Global Climate Models	15
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-10ER46707 07/14/2013 Holdmann	SC-22.21	Making Wind Work for Alaska: Supporting the Development of Sustainable, Resilient, Cost-Effective Wind-Diesel Systems for	2,311
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-04ER54741 12/14/2012 Newman	SC-24.2	Investigations of the Dynamics of Self-Consistent Models for Turbulent Transport and Implications for Transport Barrier Formation and Evolution	171
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-08ER64598 07/31/2011 Walter Anthony	SC-23.1	Quantifying Climate Feedbacks from Abrupt Changes in High-Latitude Trace-Gas Emissions	30
Total for AK :				2,553

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Listing of Active Awards for State (AL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-10ER55027 01/31/2014 Cassibry	SC-24.2	Formation of Imploding Plasma Liners for Fundamental HEDP Studies and MIF Standoff Driver Concept	184
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-10ER64970 09/14/2014 Christy	SC-23.2	Climate Model Evaluation at the University of Alabama, Huntsville	1,749
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-09ER64896 09/14/2012 Sobecky	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	134
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-10ER46737 08/14/2013 Pan	SC-22.21	Single-Molecule Spectroelectrochemistry of Interfacial Charge Transfer Dynamics In Hybrid Organic Solar Cell	512
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-09ER46630 08/14/2012 Steadman	SC-22.21	Nanostructure-Enhanced Phase Change Materials (NEPCM) and HRD Coordination	50
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-10ER41714 08/31/2013 Okada	SC-25	Research in Theoretical High Energy Physics	50
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-08ER46499 06/14/2012 LeClair	SC-22.21	Exchange Interactions in Epitaxial Intermetallic Layered Systems	15
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-08ER46537 08/31/2014 Gupta	SC-22.23	Multicomponent Protein Cage Architecture for Photocatalysis	220
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-86ER13465 01/14/2013 Kispert	SC-22.13	Magnetic Resonance and Optical Spectroscopic Studies of Carotenoids	145
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-06ER15764 01/14/2012 Dixon	SC-22.12	Molecular Basis for Microbial Adhesion and Geochemical Surface Reactions: A Study Across Scales	48
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-01ER41166 03/14/2013 Piepke	SC-26.1	Low Energy Neutrino Physics	300
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-96ER40967 04/14/2014 Busenitz	SC-25	Research in Neutrino Physics	458
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-09ER64804 07/31/2012 Barnett	SC-23.1	Understanding the Subsurface Reactive Transport of Transuranic Contaminants at DOE Sites	216
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER15069 01/31/2012 Robicheaux	SC-22.11	Coherent and Incoherent Transitions	80
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-10ER16146 06/30/2014 Landers	SC-22.11	Imaging Multi-Particle Atomic and Molecule Dynamics	120

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-08ER46497 06/14/2012 Fergus	SC-22.21	Effect of SOFC Interconnect-Coating Interactions on Coating Properties and Performance	15
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-96ER54348 12/31/2013 Pindzola	SC-24.2	Theoretical Atomic and Molecular Physics for Controlled Fusion Energy	113
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-06ER54901 07/31/2010 Robicheaux	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	0
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-05ER54819 09/14/2014 Pindzola	SC-24.2	Computational Atomic and Molecular Physics for Transport Modeling of Fusion Plasmas	189
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54610 11/30/2013 Knowlton	SC-24.2	MHD Stability and Equilibrium in a Current-Driven Stellarator-Tokamak Hybrid	690
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-03ER54692 10/31/2011 Hanson	SC-24.2	Equilibrium Reconstruction and Magnetic Field Studies in Stellarators	114
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54577 10/31/2011 Thomas	SC-24.2	Sheared Flows in Magnetized Plasmas - Fusion, Laboratory, and Space Applications	248
NATIONAL AERONAUT & SPACE ADM Huntsville, AL	DE-AI02-09ER46557 07/31/2013 Gubarev	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	325
SOUTH ALABAMA, UNIVERSITY OF Mobile, AL	DE-FG02-96ER40970 04/14/2012 Jenkins	SC-25	Experimental High Energy Physics Group	81
Total for AL :				6,056

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Listing of Active Awards for State (AR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-01ER15161 08/14/2013 Henry	SC-22.13	Protein Targeting to the Chloroplast Thylakoid Membrane: Structure and Function of a Targeting Complex	165
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-09ER46612 08/14/2012 Bellaiche	SC-22.22	Properties of Multiferoic Nanostructures From First Principles	0
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64328 12/14/2011 Gaffney	SC-23.1	Natural Radionuclides and Isotopic Signatures for Determining Carbonaceous Aerosol Sources, Aerosol Lifetimes, and Washout Processes	252
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64329 12/14/2011 Marley	SC-23.1	Aerosol Absorption and Scattering Measurements: Field Measurements and Laboratory Characterizations	205
Total for AR :				622

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Listing of Active Awards for State (AZ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER16123 09/14/2012 Wachter	SC-22.13	SISGR - The Regulation of Carbon Fixation in Plant and Green Algae: Rubisco Activase and the Origin of Heat Inactivation of CO2 Assimilation	250
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER15908 08/31/2011 Gould	SC-22.13	Dynamical Arrest, Structural Disorder, and Optimization of Organic Photovoltaic Devices	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-03ER15393 02/14/2013 Gust, Moore, Moore	SC-22.13	Supramolecular Structures for Photochemical Energy Conversion	175
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15543 05/31/2014 Vermaas	SC-22.13	Thylakoid Membrane Biogenesis in Cyanobacteria	170
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15603 01/31/2014 Steimle	SC-22.11	Generation, Detection and Characterization of Gas-Phase Transition Metal Containing Molecules	133
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER25984 05/31/2013 Ahn	SC-21.1	Assured Resource Sharing in Ad-hoc Collaboration	98
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46732 06/30/2013 Treacy	SC-22.21	Structural Studies of Amorphous Materials by Fluctuation Electron Microscopy	215
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46764 07/14/2013 Crozier	SC-22.21	Development and Application of In Situ Nanocharacterization to Photocatalytic Materials for Solar Fuel Generation	145
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER64475 08/31/2012 Marchant	SC-23.2	Governing Nanotechnology Risks and Benefits in the Transition to Regulation: Innovative Public and Private Approaches	248
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-05ER46257 11/30/2011 Friesen	SC-22.22	A Surface Stress Paradigm for Studying Catalyst and Storage Materials Relevant to the Hydrogen Economy	100
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-06ER46345 08/14/2012 Drucker	SC-22.23	Science of Nanowire Epitaxy	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER41624 08/14/2012 Krauss	SC-25	Theoretical Research at the High Energy Frontier: Cosmology, Neutrinos, and Beyond	200
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-01ER45943 06/14/2012 Tao	SC-22.22	Electron Transport and Energy Conversion in Single Molecule Devices	150
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-02ER45996 06/30/2012 Spence	SC-22.21	Quantitative Electron Nanodiffraction	150
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER46168 05/31/2014 McCartney	SC-22.21	Nanoscale Imaging of Electrostatic and Magnetic Fields	130

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-08ER64613 07/14/2011 Posner	SC-23.2	Partitioning of Nanoparticles into Organic Phases and Model Cells	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER64805 07/31/2012 Rittmann	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	97
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER65118 09/14/2013 Huang	SC-23.1	Interdecadal Climate Regime Transition and its Interaction With Climate Change in CMIP5 Simulations	267
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-08ER64616 08/14/2012 Chorover	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive Transport	87
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-10ER64991 06/30/2013 Saleska	SC-23.2	Genes, Isotopes and Ecosystem Biogeochemistry: Dissecting Methane Flux at the Leading Edge of Global Change	1,965
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-93ER45488 10/31/2011 Falco	SC-22.22	Artificially Structured Magnetic Materials	104
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-09ER46559 02/28/2013 Zhang	SC-22.22	Theoretical Investigation of Magnetization Dynamics at Elevated Temperatures	80
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-96ER20242 03/31/2012 Larkins	SC-22.13	Molecular Genetic Studies of Genes Influencing Maize Endosperm Development	170
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41298 01/31/2013 Rutherford, Sarcevic, Toussaint	SC-25	University of Arizona High Energy Physics Program	1,409
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41318 03/31/2013 Rafelski	SC-26.1	Research in Theoretical High Energy Nuclear Physics at the University of Arizona	145
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41319 03/31/2013 Sarcevic	SC-26.1	Research in Theoretical Nuclear and Neutrino Physics	58
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41338 07/31/2013 Van Kolck	SC-26.1	Effective Theories of the Strong Interaction	130
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FC02-06ER41439 09/14/2012 Toussaint	SC-25	SciDAC - National Computational Infrastructure for Lattice Gauge Theory	55
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15616 08/31/2012 Schumaker	SC-22.13	Calcium-mediated regulation of proton-coupled sodium transport	155
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-05ER15753 08/31/2014 Armstrong	SC-22.13	"Electronically Wired" Semiconductor Nanoparticles: Toward Vectorial Electron Transport in Hybrid Materials	160

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NORTHERN ARIZONA UNIVERSITY Flagstaff, AZ	DE-FC02-06ER64159 11/30/2011 Hungate	SC-23.1	Western Regional Center of the National Institute for Climatic Change Research	1,712
Total for AZ :				8,758

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AGRICULTURE, U.S. DEPT. OF Albany, CA	DE-AI02-08ER15962 06/30/2014 Hake	SC-22.13	Using the Corngrass1 Gene to Enhance the Biofuel Properties of Crop Plants	133
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-07ER64452 02/28/2014 Vogel	SC-23.2	Insertional Mutagenesis of Brachypodium Distachyon	0
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-07ER64453 07/31/2011 Tobias	SC-23.2	Linkage Analysis Appropriate for Comparative Genome Analysis and Trait Selection in Switchgrass	0
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-97ER20268 04/30/2013 Salvucci	SC-22.13	Optimizing Rubisco Regulation for Increased Photosynthetic Performance under Climate Change	124
A APPLIED SCIENCES CORPORATION San Leandro, CA	DE-FG02-10ER41649 06/14/2013 Krishnan	SC-25	RECOVERY ACT: SRF-Nb Thin-Films Grown Using Energetic Condensation for Nb-on-Cu SRF Cavities	500
INSTITUTE FOR MEDICAL RESEARCH La Jolla, CA	DE-FG02-10ER65026 08/14/2013 Rodionov	SC-23.2	Integrated Approach to Reconstruction of Regulatory Networks	211
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER54755 01/31/2014 Bellan	SC-24.2	Enhancing Fundamental Understanding of Magnetic Confinement in the Presence of Flows, Non-Conservative Forces, Dynamics,	410
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-05ER54849 01/14/2012 Cummings	SC-24.2	SciDAC - Center for Plasma Edge Simulation	110
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER55021 07/14/2012 Bellan	SC-24.2	Non-Equilibrium Magnetohydrodynamic Behavior of Plasmas Having Complex, Evolving Morphology	256
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER63983 12/31/2011 Seinfeld	SC-23.1	Mechanisms of Formation of Secondary Organic Aerosols and Implications for Global Radiative Forcing	200
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER46405 08/31/2013 Atwater	SC-22.22	Plasmonic Photovoltaics	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER46175 01/14/2014 Heath	SC-22.23	Quantum Dot and Quantum Wire Solids	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER46573 07/31/2014 Atwater	SC-22.13	Light-Material Interactions in Energy Conversion -- EFRC	2,089
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-99ER45766 08/14/2014 Eisenstein	SC-22.22	Quantum Electronic Matter in Two Dimensions	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER46055 07/14/2012 Fultz	SC-22.21	Vibrational Thermodynamics of Materials	147



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CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER41601 06/30/2012 Ellis	SC-25	Understanding the Fundamental Properties of Dark Matter & Dark Energy in Structure Formation and Cosmology	105
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER41559 12/31/2011 Newman	SC-25	US LHCNet:Transatlantic Networking for the LHC & the US HEP Community; EVO: A Global-Scale Networked Infrastructure for	1,540
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-10ER16207 09/14/2015 Lewis	SC-22.13	Joint Center for Artificial Photosynthesis (JCAP)	13,723
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-92ER40701 10/31/2013 Wise, Hitlin	SC-25	High Energy Physics	4,469
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER40397 12/31/2011 McKeown	SC-26.1	Study of Nuclei and Elementary Particles at Low and Intermediate Energies	248
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER16107 03/14/2013 Bellan	SC-22.11	SISGR - Modeling Reactions in High-Pressure Turbulence in the Cold Ignition Regime	145
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER15933 03/14/2012 Grubbs	SC-22.12	The Generation of Efficient Supported (Heterogeneous) Olefin Metathesis Catalysts	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER15754 05/31/2012 Lewis	SC-22.13	Fundamental Optical, Electrical, and Photoelectrochemical Properties of Catalyst-Bound Silicon Microwire Array	240
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER15762 11/30/2011 Arnold	SC-22.12	Structural and Kinetic Studies of Novel Cytochrome P450 Small-Alkane Hydroxylases	160
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER15483 02/14/2013 Lewis	SC-22.13	Development of Inexpensive, Abundant Semiconductors for Solar Energy Conversion: Photoelectrochemistry of	190
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-85ER13431 11/30/2012 Bercaw	SC-22.12	Synthetic and Mechanistic Investigation of Olefin Polymerization Catalyzed by Early Transition Metal Compounds	185
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER13873 03/20/2012 Meyerowitz	SC-22.13	Regulation of Plant Cells, Cell Walls, and Development by Mechanical Signals	200
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-97ER14814 11/14/2013 McKoy	SC-22.11	Electron-Driven Processes in Polyatomic Molecules	125
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-10ER64997 07/14/2013 Orphan	SC-23.2	Syntrophic Interactions and Mechanisms Underpinning Anaerobic Methane Oxidation: Targeted Metaproteogenomics, Single-Cell	588
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-10ER64948 04/14/2015 Orphan	SC-23.2	RECOVERY ACT - Integrative Molecular and Microanalytical Studies of Syntrophic Partnerships Linking C, S, and N Cycles in Anoxic Environments	704

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CALIFORNIA ST. UNIV. EAST BAY Hayward, CA	DE-FG02-05ER15657 04/30/2013 Balasubramanian	SC-22.11	Electronic Structure of Transition Metal Clusters and Actinide Complexes	241
CALIFORNIA ST. UNIV. FULLERTON Fullerton, CA	DE-FG02-04ER15597 01/31/2012 Feagin	SC-22.11	Reaction Imaging and the Molecular Coulomb Continuum	96
CALIFORNIA ST. UNIV. L. BEACH Long Beach, CA	DE-FG02-10ER41693 08/14/2013 Rajpoot	SC-25	Studies in Gravity, Supersymmetry, Supergravity and Extended Objects	40
CALIFORNIA ST. UNIV. L. BEACH Long Beach, CA	DE-FG02-09ER64856 08/31/2011 Becker	SC-23.1	Validation of Hydraulic Tomography and Tracer Testing Using Ground Penetrating Radar	73
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FG02-06ER46305 01/31/2013 Sheng	SC-22.22	Novel Charge and Spin Fractional Quantum Hall Effects and New Emerging Quantum Phases in Interacting and Spin-Orbit	110
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FC02-06ER25791 09/14/2011 Lu	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	66
RNIA ST. UNIV., FOUND. FOR THE San Bernardino, CA	DE-FG02-09CH11561 06/30/2011 Carlson	SC-23	Reaching for the Stars - California State University San Bernardino Observatory Project	194
STATE U DOMINGUEZ HILLS FNDTN Carson, CA	DE-FG02-07ER41525 04/30/2012 Price	SC-26.1	Photoproduction of the Cascade Hyperons With the CLAS Detector at Jefferson Laboratory	58
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER25786 09/14/2011 Demmel	SC-21.1	Towards Optimal Petascale Simulations (TOFS)	80
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER25753 09/14/2011 Yelick	SC-21.1	Center for Programming Models for Scalable Parallel Computing	447
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-07ER25799 11/14/2011 Yelick	SC-21.1	Center for Scalable Application Development Software	135
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER25849 07/14/2011 Kubiatowicz, Yelick	SC-21.1	Operating Systems Support for Advanced Programming Languages	324
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25986 08/31/2013 Demmel	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25956 01/31/2013 Wawrzynek	SC-21.1	RECOVERY ACT - Accelerating Science Driven System Design With RAMP	2,670
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25970 03/14/2013 Demmel	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-10ER25999 08/31/2013 Bodik	SC-21.1	Software Synthesis for High Productivity Exascale Computing	220
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER41453 09/14/2012 Kasen, McKee	SC-25	SciDAC: Supernovae, Gamma Ray Bursts, and Nucleosynthesis	250
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41289 09/14/2012 Wurtele	SC-25	Advanced Accelerator Concepts	283
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41304 12/14/2012 Crawford	SC-26.1	Investigation of Nuclear Partonic Structure	400
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-00ER41138 02/29/2012 Freedman	SC-26.1	US Participation in the KamLAND Experiment	680
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15696 08/14/2014 Katz	SC-22.12	Controlling Heterogeneous Catalysts Selectivity Using Grafted Metallocalixarene Active Sites	150
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16008 02/14/2012 Somerville	SC-22.13	Regulation of Cellulose Synthesis	341
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16034 07/31/2014 Smit	SC-22.21	Center for Gas Separations Relevant to Clean Energy Technologies -- EFRS	1,430
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15637 01/31/2013 Wenk	SC-22.12	Anisotropy and Residual Stresses in Sedimentary Rocks: A Synchrotron and Neutron Diffraction Study	116
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER15552 06/30/2011 Luan	SC-22.13	Immunophilins in the Assembly and Maintenance of Photosynthetic Complexes	120
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-87ER13742 06/30/2013 Quail	SC-22.13	Phytochrome from Green Plants: Properties and Biological Function	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER46594 05/31/2013 Schaffer	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	185
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER41688 06/30/2013 Haxton	SC-26.1	Nuclear Physics and Astrophysics Theory at UC Berkeley	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER55078 07/14/2013 Graves	SC-24.2	Collaborative Proposal: Fundamental Science of Low Temperature Plasma-Biological Material Interactions	90
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64555 08/31/2012 Firestone	SC-23.1	Trajectories of Microbial Community Function in Response to Accelerated Remediation of Subsurface Metal Contaminants	288

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64505 08/31/2011 Banfield	SC-23.2	Development of Proteogenomic Approaches to Analyze the Role of Virus-Microbe Interactions in Shaping Natural Microbial	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER64134 08/31/2011 Banfield	SC-23.2	Proteogenomic Approaches for the Molecular Characterization of Natural Microbial Communities	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64390 03/14/2012 Coates	SC-23.1	Anaerobic, Bio-Oxidation of Uraninite (U(IV))	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64436 07/14/2012 Fung	SC-23.1	Carbon Data Assimilation With a Coupled Ensemble Kalman Filter	202
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-06ER54904 07/31/2012 Fajans	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	604
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER54750 07/31/2015 Wirth	SC-24.2	A Multiscale Investigation of the Mechanisms Controlling Materials Degradation in the Fusion Energy Environment	275
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64691 04/14/2015 Wang	SC-22.22	RECOVERY ACT - Control Graphene Electronic Structure for Energy Technology	750
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64989 06/30/2013 Firestone	SC-23.2	Plant Stimulation of Soil Microbial Community Succession: How Sequential Expression Mediates Soil Carbon Stabilization and Turnover	524
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64996 07/14/2013 Banfield	SC-23.2	Development and Integration of Genome-Enabled Techniques to Track and Predict the Cycling of Carbon in Model	553
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65009 07/31/2013 Banfield	SC-23.1	3D Reconstruction of Biological Organization and Mineralization in Sediment Attached Biofilms During Uranium Bioremediation	116
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65027 08/14/2013 Sjolander	SC-23.2	Phylogenomic Tools and Web Resources for the Systems Biology Knowledgebase	465
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65028 08/14/2013 Banfield	SC-23.2	Development of a Knowledgebase to Integrate, Analyze, Distribute, and Visualize Microbial Community Systems Biology Data	469
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65037 07/31/2013 Pauly	SC-23.2	Identification and Genetic Characterization of Maize Cell Wall Variants for Improved Biorefinery	522
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64588 07/31/2011 Chiang	SC-23.1	The Interhemispheric Pattern in 20th Century and Future Abrupt Change in Regional Tropical Rainfall	125
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65088 09/14/2013 Baldocchi	SC-23.1	Using a Regional Cluster of AmeriFlux Sites in Central California to Advance Our Knowledge on Decadal-Scale	330

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER65079 08/31/2012 Ma	SC-23.1	Interactive Correlation Analysis and Visualization of Climate Data	550
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64677 09/14/2011 Cherry	SC-23.2	High Resolution PET with 250um LSO Detectors and Adaptive Zoom	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64693 09/14/2011 Meeks	SC-23.2	System Level Approaches to Understanding and Manipulating Heterocyst Differentiation in Nostoc Punctiforme	300
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64785 06/30/2012 Rocke	SC-23.2	Inter-Individual Variability in Human Response to Low-Dose Ionizing Radiation	283
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64821 08/31/2013 Sutcliffe	SC-23.2	CARE California Alliance for Radiotracer Education	582
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64832 08/31/2012 Zhang	SC-23.1	Integrated Analyses of Multiple Worldwide Aerosol Mass Spectrometer Datasets for Improved Understanding of Aerosol Sources	177
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER65060 08/31/2013 Mitchell	SC-23.2	High Sensitivity SPECT for Small Animals and Plants	499
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER54732 02/28/2014 Hwang	SC-24.2	Multiple Applications of Accelerated Compact Toroids in Magnetic Fusion Devices	343
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54518 02/29/2012 Luhmann	SC-24.2	Millimeter-Wave Density Fluctuation Diagnostics for NSTX	330
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54531 12/14/2012 Luhmann	SC-24.2	Innovative Diagnostic Developments for Turbulence and Transport Measurement and Visualization	605
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER63912 08/31/2011 Six	SC-23.1	Physico-Chemical and Bio-Chemical Controls on Soil C Saturation Behavior	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64481 02/29/2012 Bennett	SC-23.2	Intellectual Property and U.S. Public Investments in Research on Biofuel Technologies	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64530 04/14/2012 Wexler	SC-23.1	Process Models of the Equilibrium Size & State of Organic/Inorganic Aerosols for the Development of Large Scale Atmospheric Models & the Analysis of Field Data	126
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER55083 05/31/2012 Hwang	SC-24.2	Formation of Dense Magnetized Plasmas via Laser Generated Beat Wave Current Drive	350
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER41696 08/31/2013 Tripathi	SC-25	Development of Interconnect Technologies for Particle Detectors	155

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46053 06/30/2012 Navrotsky	SC-22.23	Thermochemistry of Anion Defect and Charge Coupled Substitutions in Fluorite and Perovskite-Based Materials	200
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46057 06/14/2013 Browning	SC-22.21	Materials Properties at Interfaces in Nanostructured Materials: Fundamental Atomic Scale Issues	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46173 07/31/2013 Parikh	SC-22.23	Dynamical Self-Assembly: Structure-Dynamics-Function Relations in Heterogenous Lipid Membranes	327
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46111 01/31/2013 Pickett	SC-22.22	Theory of Oxide Nanostructures: Polarity, Dimensionality, and Strong Interactions	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER46475 08/14/2013 Power	SC-22.23	Activation of Hydrogen Under Ambient Conditions and Unusual Element Hydride Reactivity by Main Group Molecules	170
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46262 11/14/2012 Galli	SC-22.22	Semiconductor Nanostructures by Scientific Design	534
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46340 08/14/2012 Kuhl	SC-22.21	Structure-Property Relationships of Polymer Brushes in Restricted Geometries and their Utilization as Ultra-Low	220
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-97ER14749 05/31/2015 Navrotsky	SC-22.12	Thermodynamics of Minerals Stable Near the Earth's Surface	232
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15554 08/31/2011 Liu	SC-22.13	Regulation of Plant Cell Growth by the Microtubule Motor Kinesins	120
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15568 11/14/2013 Rundle	SC-22.12	Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	169
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15513 02/14/2013 Gates	SC-22.12	Tailoring Supports as Ligands: Zeolites and Oxides as Hosts of Molecular Metal-Complex Catalysts	200
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15405 12/31/2011 Theg	SC-22.13	Energetics and Mechanisms of Protein Transport Across Chloroplast Membranes	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15315 10/31/2011 Orel	SC-22.11	Electron-Driven Excitation and Dissociation of Molecules	95
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15306 05/31/2014 Ng	SC-22.11	Determination of Accurate Energetic and Spectroscopic Database for Combustion Radicals and Molecules by High Resolution Photoion-Photoelectron Methods	145
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER16117 09/14/2012 Lagarias	SC-22.13	SISGR: Photoreceptor Regulation and Optimization of Energy Harvesting in Nostoc Punctiforme	1,000

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER16150 04/30/2012 Britt	SC-22.13	Membrane-organized Chemical Photoredox Systems	100
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15667 08/14/2014 Navrotsky	SC-22.12	Energetics of Nanomaterials	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15693 11/30/2012 Casey	SC-22.12	Adding Reactivity to Structure-- -Oxygen-Isotope Exchanges at Structural Sites in Nanometer-Size Aqueous Clusters	150
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER15963 06/30/2014 Inoue	SC-22.13	Thylakoid Biogenesis: Significance of Protein Maturation and Mechanism of Protein Targeting	151
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER41280 08/31/2011 Pellett	SC-25	Radiation Damage Studies of Materials and Electronic Devices Using Hadrons	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-10ER26039 08/31/2013 Ma	SC-21.1	Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	152
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-91ER40674 12/31/2012 Ko	SC-25	High Energy Particle Physics Research	2,842
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-07ER25811 11/14/2011 Ludaescher	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	193
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25793 09/14/2012 Bai	SC-21.1	Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials	311
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25794 12/14/2012 Galli	SC-21.1	Institute for Quantum Simulations of Materials and Nanostructures	920
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25777 12/14/2011 Ma	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	1,989
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25780 12/14/2011 Joy	SC-21.1	Visualization and Analytics Center for Enabling Technologies (VACET)	298
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-91ER40679 01/31/2013 Sobel	SC-25	A Research Program in Neutrino Physics, Cosmic Rays, and Elementary Particles	3,418
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER15826 03/31/2013 Ho	SC-22.11	Single-Molecule Interfacial Electron Transfer	149
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER16161 06/14/2013 Evans	SC-22.12	Fundamental Chemistry of Actinide Complexes Containing An-N, An-O, and An-S Bonds	250

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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER16142 04/14/2015 Potma	SC-22.11	RECOVERY ACT - Ultrafast Electron Transport Across Nanogaps in Nanowire Circuits	600
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER16003 01/31/2012 Detwiler	SC-22.12	Multiphase Fluid Flow in Deformable Variable-Aperture Fractures	119
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER15994 08/14/2014 Blum	SC-22.12	Single-Molecule Fluorescence Imaging for Studying Organic, Organometallic, and Inorganic Reaction Mechanisms	120
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15571 12/31/2013 Mukamel	SC-22.11	Theory and Simulation of Nonlinear X-Ray Spectroscopy of Molecules	150
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15595 02/28/2013 Ho	SC-22.11	Spectroscopic Imaging Toward Space-Time Limit	170
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13514 06/14/2013 Evans	SC-22.12	Advancing Chemistry with the Lanthanide and Actinide Elements	125
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13525 05/31/2014 Lanyi	SC-22.13	Membrane Bioenergetics of Salt Tolerant Organisms	199
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER46237 08/31/2014 Wu	SC-22.22	First Principles Investigation for Magnetic Properties of Innovative Materials	95
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER46496 04/30/2014 Burke	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	130
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46107 12/31/2011 Yu	SC-22.22	Noise, Disorder and Phase Transitions	85
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46174 08/31/2013 Chernyshev	SC-22.22	Spin-Mediated Energy Transport and Dynamics in Quantum Magnets	110
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46162 02/28/2014 Guan	SC-22.23	Bioinspired Hydrogen Bonding-Mediated Assembly of Nano-Objects toward Adaptive and Dynamic Materials	154
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-96ER45576 04/14/2014 Hemminger	SC-22.23	Optical Spectroscopy and Scanning Tunneling Microscopy Studies of Molecular Adsorbates and Anisotropic Ultrathin Films	161
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-84ER45083 01/31/2014 Mills	SC-22.22	Theory of Spin Dynamics in Nanoscale and Subnanoscale Magnetic Structures	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER55044 08/14/2012 Lin	SC-24.2	Gyrokinetic Particle Simulation of Compressible Electromagnetic Turbulence in High-B Plasmas	70



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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-08ER54976 02/14/2016 Lin	SC-24.2	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	160
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64000 12/31/2011 Finlayson-Pitts	SC-23.1	Formation of Secondary Organic Aerosols (SOA) via Nitrate Ion Photochemistry In and On Particles	236
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64021 04/30/2013 Goulden	SC-23.1	Physiological, Demographic, Competitive and Biogeochemical Controls on the Response of California's Ecosystems to Environmental Change	373
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER54736 12/14/2011 Chen	SC-24.2	Theoretical Studies of Drift-Alfven and Energetic-Particle Physics	140
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER54720 08/14/2012 Heidbrink	SC-24.2	Fast-Ion Studies in the Large Plasma Devices	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-02ER54681 08/14/2014 Heidbrink	SC-24.2	Beam Ion Studies in NSTX	98
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER54916 12/31/2012 Lin	SC-24.2	Multiple-Time-Scale Gyrokinetic Particle Simulation with Collisions	99
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-06ER54860 01/14/2012 Lin	SC-24.2	SciDAC - Center for Plasma Edge Simulation	116
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER54867 04/14/2012 Heidbrink	SC-24.2	Fast-Ion D-Alpha Diagnostic for NSTX	126
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER46689 04/14/2015 Law	SC-22.22	RECOVERY ACT - Evaluating the Oxidative, Photothermal and Electrical Stability of Colloidal Nanocrystal Solids	600
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER64995 06/30/2013 Allison	SC-23.2	Can Microbial Functional Traits Predict the Response and Resilience of Decomposition to Global Change?	771
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64798 07/14/2012 Limoli	SC-23.2	Neurodegeneration and Adaptation in Response to Low-Dose Photon Irradiation	467
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64762 06/14/2012 Gerber	SC-23.2	From Vibrational Spectroscopy to Force Fields and Structures of Saccharides: New Computational Algorithms and Applications	272
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER64695 03/14/2013 Detwiller	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	105
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER64689 08/31/2012 Gunsalus	SC-23.2	Novel Hydrogen Production Systems Operative at Thermodynamic Extremes	500

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER64824 08/31/2013 Phelps	SC-23.2	Microfluidic Technology Platforms for Synthesizing, Labeling and Measuring the Kinetics of Transport and Biochemical	599
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER65054 08/31/2013 van Dam	SC-23.2	Microfluidics Without Channels: Highly-Flexible Synthesis on a Digital-Microfluidic Chip for Production of Diverse PET Tracers	800
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER46658 09/14/2012 Chang	SC-22.23	SISGR - Metal Oxide Core Shell Nanostructures as Building Blocks for Efficient Light Emission	176
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER46734 02/14/2012 Weiss	SC-22.21	Atomic-Scale Chemical, Physical and Electronic Properties of the Subsurface Hydride of Palladium: Gateway to Hydrogen Storage, Usage Embrittlement and Reaction	248
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-86ER52123 11/30/2013 Abdou	SC-24.2	Predictive Capabilities, Analysis and Experiments for Fusion Plasma Chamber Systems Research	2,140
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER54918 03/31/2013 Gekelman	SC-24.2	Basic Plasma Science Facility	1,643
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-06ER54906 07/31/2012 Niemann	SC-24.2	Laser-Driven Collisionless Shocks in the Large Plasma Device	403
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-01ER54615 12/31/2012 Brower	SC-24.2	Development of Advanced Magnetic and Electron Current Density Diagnostics	756
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-99ER54527 02/29/2012 Peebles	SC-24.2	Cross-Cutting Research Studies on the National Spherical Torus Experiment	328
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-03ER54708 11/14/2012 Ghoniem	SC-24.2	Multiscale Modeling of Deformation, Fracture, and Failure of Fusion Materials and Structures	465
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER64439 07/14/2011 Ghil	SC-23.1	Collaborative Research: Robust Climate Projections and Stochastic Stability of Dynamical Systems	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER54984 12/31/2012 Rhodes	SC-24.2	Integrated System for Measurement of Multi-Scale Turbulence, Zonal Flows, and Particle Flux	439
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER55003 08/14/2011 Niemann	SC-24.2	Characteristic X-ray Emission from Underdense Plasmas Irradiated by Ultra-Intense Lasers	161
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER55081 07/14/2013 Stenzel	SC-24.2	Nonlinear and Inertial Magnetic Structures in EMHD Plasmas	219
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER55082 07/14/2013 Morales	SC-24.2	Basic Studies of Non-Diffusive Transport in Plasmas	100

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER55061 08/14/2012 Vincena	SC-24.2	Axial Plasma Jets and Their Interaction with and Production of Alfvén Waves	120
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER55063 08/14/2011 Carter	SC-24.2	CMPD Phase-Out: Nonlinear Alfvén Waves, Validation of Gyrokinetic Simulation, Basic Studies of Reconnection	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER63724 11/14/2011 Liou	SC-23.1	Characterization of 3D Cirrus Cloud and Radiation Fields Using ARM/AIRS/MODIS Data and Its Application to Climate Models	172
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-02ER63421 12/31/2014 Eisenberg	SC-23.2	UCLA-DOE Institute for Genomics and Proteomics	2,000
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER41500 08/31/2012 Mori	SC-25	Community Petascale Project for Accelerator Science and Simulation	197
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER46580 07/31/2014 Ozolins	SC-22.21	Molecularly Assembled Material Architectures for Solar Energy Production, Storage, and Carbon Capture -- EFRC	2,150
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER46272 06/30/2013 Rosenzweig, Pellegrini	SC-22.3	The Physics of Gain Mechanisms in Self-Amplified Spontaneous Emission Free Electron Lasers	786
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER15529 08/31/2013 Merchant	SC-22.13	Molecular Genetic Dissection of Chloroplast Iron Homeostasis	350
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER16136 03/31/2013 Kavner	SC-22.12	Stable-Isotope Probe of Nano-Scale Mineral-Fluid Redox Interactions	148
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER16192 08/31/2013 Weiss	SC-22.12	DC to Daylight: Local Spectroscopies for Subnanometer Spatial Resolution Chemical Imaging	210
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER15935 01/31/2012 Yaghi	SC-22.12	Metal-Organic and Zeolite Imidazolate Frameworks (MOFs and ZIFs) for Highly Selective Separations	147
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER15948 05/31/2013 Diaconescu	SC-22.12	Uranium Complexes for the C-H Activation of Hydrocarbons	166
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40693 10/31/2012 Rosenzweig, Pellegrini	SC-25	Theoretical and Experimental Studies in Accelerator Physics	1,027
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40695 10/31/2011 Cline	SC-25	Advanced Accelerator Physics Research at UCLA	312
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40727 05/31/2013 Joshi, Mori	SC-25	Experimental, Theoretical and Computational Studies of Plasma-Based Concepts for Future High Energy Accelerators	1,670

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-91ER40662 01/14/2013 Cousins	SC-25	Experimental and Theoretical High Energy Physics	3,055
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-88ER40424 01/31/2012 Huang	SC-26.1	Intermediate Energy and Relativistic Heavy Ion Group	1,274
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-06ER25797 09/14/2012 Zhong	SC-21.1	Simulations of Turbulent Flows With Strong Shocks and Density Variations	230
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-07ER64457 07/31/2012 Kueppers	SC-23.1	Subalpine and Alpine Species Range Shifts with Climate Change: Temperature & Soil Moisture Manipulations to Test Species & Population Responses	684
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER25625 08/31/2010 Colvin	SC-21.1	A Center for Computational Biology	0
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER15502 06/30/2012 Kelley	SC-22.13	Exciton Transport and Charge Separation in Quantum Dot Arrays	140
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-08ER64614 08/14/2012 O'Day	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive	83
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-10ER65102 09/14/2013 O'Day	SC-23.1	Molecular Mechanisms and Kinetics of Microbial, Anaerobic, Nitrate-Dependent U(IV) and Fe(II) Oxidation	250
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-10ER16191 08/31/2013 Debus	SC-22.13	FTIR Studies of Photosynthetic Oxygen Production	174
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-86ER40271 12/31/2011 Seto, Barish	SC-26.1	Central Collisions of Heavy Ions	453
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-94ER40837 01/31/2012 Wimpenny, Ma, Gary	SC-25	High Energy Physics	1,261
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER41325 06/30/2013 Barish	SC-26.1	SPIN PHYSICS WITH PHENIX AT RHIC	248
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER15660 05/14/2014 Bocian	SC-22.13	Fundamental Studies of Energy- and Hole/Electron- Transfer in Hydroporphyrin Architectures	145
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16069 09/14/2012 Bertrand	SC-22.12	Transition-Metal-Catalyzed hydroamination of Non-Activated Carbon-Carbon Multiple Bonds with Ammonia	155
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16096 09/14/2012 Zaera	SC-22.12	SISGR - Design and Characterization of Novel Photocatalysts With Core-Shell Nanostructures	380

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CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER15555 07/14/2012 Yang	SC-22.13	ROP GTPase Signaling in the Hormonal Regulation of Plant Growth	0
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-02ER15295 07/14/2014 Raikhel	SC-22.13	Trafficking to the Vacuoles in Plants	180
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-06ER46296 07/14/2013 Wu	SC-22.22	Density Functional Theory for Phase-Ordering Transactions	140
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER46351 11/14/2011 Shi	SC-22.22	Study of Materials and Interface Properties for High-Efficiency Spin Injection	130
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER46599 08/14/2012 Zaera	SC-22.23	Atomic Layer Deposition (ALD) of Metal and Metal Oxide Films: A Surface Science Study	186
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-08ER46520 07/31/2014 Liu	SC-22.22	Study of P-Type ZnO and MgZnO Thin Films for Solid State Lighting	50
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41465 05/31/2013 Hanson	SC-25	High Energy Physics Research with the CMS Experiment at CERN	240
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41487 08/14/2012 Hanson	SC-25	Neutrino Factory & Muon Collider Fellow	112
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46131 04/14/2013 Mohideen	SC-22.22	Investigating the Role of Ferromagnetic Materials in the Casimir Force	150
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46138 04/14/2013 Haddon	SC-22.23	Solid State Electronic Structure and Properties of Neutral Carbon-Based Radicals	242
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER41672 05/31/2015 Fuller	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	45
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-87ER45332 06/30/2014 Schuller	SC-22.22	Nanostructured Materials: From Superlattices to Quantum Dots	165
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-00ER45799 11/30/2011 Basov	SC-22.22	Electromagnetic Response of Correlated Electron Systems in the Regime of Charge and Spin Inhomogeneity	624
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46105 11/30/2012 Maple	SC-22.22	Superconductivity and Magnetism in d- and f-Electron Materials	300
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46449 05/14/2013 Butov	SC-22.22	Cold Exciton Gases in Semiconductor Heterostructures	165

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46603 07/31/2012 Shpyrko	SC-22.21	Nanoscale X-Ray Imaging and Dynamics of Electronic and Magnetic Materials	170
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-08ER46519 07/31/2014 Cohen	SC-22.23	Tuning Sorption Properties of Metal-Organic Frameworks via Postsynthetic Covalent Modification	220
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46355 01/14/2012 Qiao	SC-22.22	Understanding Size Effect in Cleavage Cracking in Thin Film Materials	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER46204 05/31/2014 Di Ventura	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale Systems	105
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46672 09/14/2012 Meng	SC-22.21	New In Situ Analytical Electron Microscopy for Understanding Structure Evolution and Composition	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46677 12/31/2012 Tezcan	SC-22.23	Inorganic Control of Biological Self-Assembly: Engineering Novel Biological Architectures and Redox-Active Protein Assemblies	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46680 01/31/2013 Sinha, Fullerton	SC-22.21	Neutron and X-Ray Studies of Spin and Change Manipulation in Magnetic Nanostructures	320
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46750 08/31/2013 Cha	SC-22.23	Bio-Inspired Routes for Synthesizing Efficient Nanoscale Platinum Electrocatalysts	230
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54738 12/14/2013 Diamond	SC-24.2	Investigations in Anomalous Transport and Ignition Physics	549
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54739 01/14/2013 Krasheninnikov	SC-24.2	Turbulence, Structures, and Macroscopic Transport in Edge, SOL, and Divertor Plasmas	277
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER54908 01/14/2012 Krasheninnikov	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	90
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54917 01/14/2013 Moyer	SC-24.2	DIII-D Edge Physics and Disruptions	990
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54912 12/14/2012 Tynan	SC-24.2	UCSD PISCES Program: Plasma Boundary Science, Materials Interactions, and Collaborative Fusion Research	1,800
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54871 05/31/2012 Tynan	SC-24.2	Nonlinear Drift Turbulence-Zonal Flow Interactions in a Laboratory Plasma Device	498
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54852 02/28/2012 Krasheninnikov	SC-24.2	Basic Physical Processes Involving Dust in Fusion Plasmas	100

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54757 12/31/2012 Najmabadi, Raffray, Tillack, Mau	SC-24.2	Advanced Design Program (ARIES)	980
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER54809 04/14/2014 Moyer	SC-24.2	Modeling Plasma Response to Non-Axisymmetric Magnetic Field Perturbations in Tokamak Boundaries	180
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER55080 07/14/2013 Surko	SC-24.2	New Plasma Tools for Physics with Low-Energy Antimatter	190
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER55076 07/14/2013 Karimabadi	SC-24.2	Kinetic Physics of Homogeneous Turbulence in Collisionless Plasmas	160
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55038 08/14/2012 Beg	SC-24.2	Assessment of Proton Deflectometry for Exploding Wire Experiments	280
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-09ER55020 07/31/2011 Holland, Tynan	SC-24.2	UCSD Support for Fusion Simulation Project Planning Activity	80
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55025 07/14/2014 O'Neil	SC-24.2	Fundamental Processes in Plasmas	350
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER64362 09/14/2011 Keeling	SC-23.1	A Study of the Role of Terrestrial Processes in the Carbon Cycle Based on Measurements of the Abundance and Isotopic	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER64324 11/14/2011 Tartakovsky	SC-23.1	Hybrid Numerical Methods for Multiscale Simulations of Subsurface Biogeochemical Processes	80
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER16126 12/31/2012 Weare	SC-22.12	Development and Application of Next Generation Parameter Free Petascale Simulation Technology for Solution	150
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16007 06/14/2014 Estelle	SC-22.13	Function of the Arabidopsis TIR1/AFB Auxin Receptors in Growth and Development	170
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16013 04/30/2012 Fox	SC-22.13	Nanoscaled Components for Improved Efficiency in a Multipanel Photocatalytic Water-Splitting Device	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-98ER14879 10/31/2013 Continetti	SC-22.11	Dynamics and Energetics of Elementary Combustion Reactions and Transient Species	143
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER15449 09/14/2012 Schroeder	SC-22.13	Molecular and Genetic Basis of Sodium/Potassium Transport and Distribution in Plants	240
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-90ER40546 06/30/2013 Kuti, Branson, Sharma, Griest	SC-25	Elementary Particle Physics	3,371

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-06ER25760 12/14/2011 Snavelly	SC-21.1	Collaborative Research: Performance Engineering Research Center	285
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER25815 08/31/2013 Tartakovsky	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in Porous Media	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-10ER25993 08/31/2013 Snavelly	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	151
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER25930 01/14/2013 Baden	SC-21.1	Automatic Transformation of MPI Programs to Asynchronous, Graph Driven Form	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER25944 09/14/2012 Abarbanel	SC-21.1	Parameter Estimation and Model Validation of Nonlinear Dynamical Networks	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65029 08/14/2013 Palsson	SC-23.2	A Systems Biology Knowledgebase: Context for Content	453
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64764 06/14/2012 Somerville	SC-23.1	Collaborative Research: Using ARM Observations and Advanced Statistical Techniques to Evaluate CAM3 Clouds for	63
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64736 04/30/2012 Zhang	SC-23.1	Improving Convection Parameterization Using ARM Observations and NCAR Community Atmosphere Model	169
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64777 07/31/2012 Russell	SC-23.1	High Latitude Climate Modeling: ARM Takes us Beyond Case Studies	142
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-08ER64686 09/14/2011 Palsson, Zengler	SC-23.2	Systems-Level Understanding of Hydrogen Production by Thermotoga Maritima	463
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65086 08/31/2013 Cessi	SC-23.1	Pulling the Meridional Overturning Circulation From the South	410
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65090 09/14/2013 Keeling	SC-23.1	Developing Model Constraints of Northern Extra-Tropical Carbon Cycling Based on Measurements of the Abundance and Isotopic Composition of Atmospheric CO2	349
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65115 09/14/2012 Kocarev	SC-23.1	An Interactive Multi-Model for Consensus on Climate Change	117
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER65063 08/31/2013 Miller	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	80
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64932 02/14/2013 Balmain	SC-23.2	A System Genetics Approach to Identify Low Dose Radiation-Induced Lymphoma Susceptibility	326



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CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64984 06/14/2013 Miller	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER25621 12/30/2011 Petzold	SC-21.1	Multiscale Simulation Algorithms for Biochemical Systems	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FC02-06ER41437 09/14/2012 Sugar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	30
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-91ER40618 03/31/2014 Richman	SC-25	UCSB High Energy User Group	3,050
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-98ER14910 12/31/2011 Bazan	SC-22.12	Ring Walking/Oxidative Addition Reactions for the Controlled Synthesis of Conjugated Polymers	150
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15441 12/14/2011 Wodtke	SC-22.11	Electronically non-adiabatic dynamics at the gas-solid interface	210
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15467 09/14/2012 Scott	SC-22.12	Hierarchical Design of Supported Organometallic Catalysis for Hydrocarbon Transformations: Structures and Dynamics of Active Sites	540
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-89ER14048 06/30/2014 McFarland	SC-22.12	Investigations of C-H Bond Activation and Doped Metal Oxide Catalysts	160
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16081 11/30/2012 Seshadri	SC-22.12	Platinum-Group Metal (PGM) Substituted Complex Oxide Catalysts	156
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER16067 08/14/2012 Hayton	SC-22.12	Exploring the Redox and Oxo Substitution Chemistry of the Uranyl Ion: Implications for Separations and Environmental	232
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER15991 02/29/2012 Gibou	SC-22.12	Multiscale Investigation and Modeling of Flow Mechanisms Related to CO2 Sequestration in Geologic Formations	190
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16131 01/31/2013 Boles	SC-22.12	Fault-Related CO2 Degassing, Geothermics, and Fluid Flow in Southern California Basins---Physiochemical Evidence and	96
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-94ER54275 05/31/2013 Odette	SC-24.2	A Science-Based Fast Track for Advanced Fusion Structural Materials Development	725
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER46759 02/29/2012 Chabinyc	SC-22.23	Molecular Design of Doped Polymers for Thermoelectric Systems	200
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER46659 09/14/2012 Nguyen	SC-22.23	SISGR - Mechanistic Studies of Charge Injection from Metallic Electrodes into Organic Semiconductors Mediated by Ionic Functionalities	300

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FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER46314 07/31/2013 Safinya	SC-22.23	Miniaturized Hybrid Materials Inspired by Nature	250
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-07ER46434 08/14/2013 Van de Walle	SC-22.22	Computational Studies of Hydrogen Interfaces with Storage Materials	197
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46524 08/31/2014 Balents	SC-22.22	Interplay of Electron Correlations and Spin-Orbit Coupling	90
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46535 08/31/2014 Heeger	SC-22.23	Charge Recombination, Transport Dynamics, and Interfacial Effects in Organic Solar Cells	520
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-02ER46006 05/31/2013 Morse	SC-22.23	Biological and Biomimetic Low-Temperature Routes to Materials for Energy Applications	418
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-87ER45331 02/28/2014 Israelachvili	SC-22.23	Relationships Between the Adhesion, Friction and Nano/Micro-Structure of Materials, Surfaces and Films	282
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER41698 08/31/2012 Monreal	SC-25	Ultra-High-Resolution Time Projection Chambers withg Liquid Crystal Backplanes	141
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER41670 04/14/2015 Monreal	SC-26.1	RECOVERY ACT - New Experiments to Measure the Neutrino Mass Scale	759
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-06ER46319 08/31/2013 Shastry	SC-22.22	Theoretical Studies in Very Strongly Correlated Matter	230
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-05ER46232 08/14/2012 Zhang	SC-22.21	Structure and Charge Carrier Dynamics at Interfaces in Nanocomposite Materials	150
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER63750 12/14/2011 Liu	SC-23.2	Artificial Retina Project: Wireless Link and Microelectronics	260
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER41286 10/31/2012 Seiden	SC-25	Research in High Energy Physics	2,533
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER41438 09/14/2012 Woosley	SC-25	SciDAC: Computational Astrophysics Consortium: 3 Supernovae, Gamma Ray Bursts, and Nucleosynthesis	254
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER25768 12/14/2011 Long	SC-21.1	Petascale of Data Storage Institute	300
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26017 08/31/2013 Long	SC-21.1	Dynamic Non-hierarchical File Systems for Exscale Storage	476

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ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26033 08/31/2013 Brandt	SC-21.1	Adding Data Management Services to Parallel File Systems	325
CHULA VISTA, CITY OF Chula Vista, CA	DE-FG02-10CH20011 12/31/2013 Stone	SC-23	Environmental, Sustainability, Energy and Initial Land Use Planning and Entitlements for the University Park and Research	972
COMPX Del Mar, CA	DE-FC02-06ER54856 01/14/2012 Harvey	SC-24.2	Center for Simulation of Wave Interactions with MHD - SWIM	75
COMPX Del Mar, CA	DE-FC02-01ER54649 03/31/2016 Harvey	SC-24.2	Center for Simulation of Wave Plasma Interactions	160
COMPX Del Mar, CA	DE-FG02-04ER54744 12/14/2012 Harvey	SC-24.2	Advanced Development of the CQL3D Fokker-Planck Code and GENRAY Ray Tracing Codes	118
DOHENY EYE INSTITUTE Los Angeles, CA	DE-FC02-04ER63735 12/31/2011 Humayun	SC-23.2	Artificial Retina: Bioelectronics Research Laboratory	1,800
ELECTRIC POWER RESEARCH INST. Palo Alto, CA	DE-FG02-10ER65068 09/14/2011 Maitra	SC-23.2	Ultrafast Power Processor for Smart Grid	972
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54963 02/14/2016 Candy	SC-24.2	Center for the Study of Plasma Microturbulence	200
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54952 03/31/2016 Choi	SC-24.2	SciDAC Center for Simulation of Wave-Plasma Interactions - GA	50
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54977 02/14/2016 Waltz, Chu	SC-24.2	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	160
GENERAL ATOMICS San Diego, CA	DE-FC02-09ER55016 07/31/2011 Chan	SC-24.2	Fusion Simulation Program	140
GENERAL ATOMICS San Diego, CA	DE-FG02-09ER55035 08/14/2013 Stephens	SC-24.2	Ion-Fast Ignition - Establishing a Scientific Basis for Inertial Fusion Energy	300
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54873 03/31/2013 Snyder	SC-24.2	Edge Simulation Laboratory	179
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54861 01/14/2012 Schissel	SC-24.2	SciDAC - Center for Simulation of Wave Interactions with MHD - General Atomics Support of ORNL Collaboration	125
GENERAL ATOMICS San Diego, CA	DE-FG02-05ER54834 05/31/2012 Stephens	SC-24.2	Advanced Concept Exploration of Fast Ignition	1,604

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GENERAL ATOMICS San Diego, CA	DE-FC02-04ER54698 10/31/2013 Taylor, Stambaugh	SC-24.2	The DIII-D Fusion Research Program and Advanced Fusion Technology Research and Development	51,778
GENERAL ATOMICS San Diego, CA	DE-FG02-97ER54402 05/14/2014 Lee	SC-24.2	Advancing Precollege Science and Mathematics Education	208
GENERAL ATOMICS San Diego, CA	DE-FG02-99ER54522 02/28/2014 La Haye	SC-24.2	National Spherical Torus Experiment: Collaborative Research on Configuration Optimization	250
GENERAL ATOMICS San Diego, CA	DE-FG02-95ER54309 01/14/2014 Chan	SC-24.2	Theory and Simulation of Fusion Plasmas	2,177
GEOLOGICAL SURVEY, U. S. Menlo Park, CA	DE-AI02-09ER64743 08/14/2012 Curtis	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	170
GEOLOGICAL SURVEY, U. S. Menlo Park, CA	DE-AI02-10ER65007 06/30/2013 Curtis, Davis	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-Scale Heterogeneity to Plume-Scale Modeling	246
HEWLETT-PACKARD COMPANY Palo Alto, CA	DE-FC02-10ER25988 08/31/2013 Schreiber	SC-21.1	Blackcomb: Hardware-Software Co-Design for Non-Volatile Memory in Exascale Systems	651
HINTON ASSOCIATES Escondido, CA	DE-FC02-07ER54922 02/14/2012 Hinton	SC-24.2	SciDAC - Center for Plasma Edge Simulation - Hinton Associates Support of NYU Collaboration	66
IETY FOR COMPUTATIONAL BIOLOGY La Jolla,, CA	DE-FG02-06ER64270 06/30/2012 Rost	SC-23.2	ISMB 2009-2011 Conference Travel Support for Students and Young Scientists	35
J. CRAIG VENTOR INSTITUTE San Diego, CA	DE-FG02-10ER64985 06/14/2013 Gorby	SC-23.1	Bacterial Nanowires and Extracellular Electron Transfer to Heavy Metals and Radionuclides by Bacterial Isolates from DOE Field Research Centers	395
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64345 12/31/2011 Gridley	SC-23.2	Th Cell Gene Expression and Function in Response to Low Dose and Acute Radiation	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64348 01/31/2012 Burrell	SC-23.2	The Contribution of Tissue Level Organization to Genomic Stability Following Low Dose/Low Dose Rate Gamma and Proton Irradiation	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-09ER64787 08/31/2012 Nelson	SC-23.2	Low Dose Ionizing Radiation Modulates Immune Function	377
MONTEREY BAY AQUARIUM RES INST Moss Landing, CA	DE-FG02-10ER64993 06/30/2013 Worden	SC-23.2	Connecting Genomes to Physiology and Response in Marine Photosynthetic Eukaryotes: Systems Biology of the Green Alga Micromonas	707
NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-07ER64487 08/14/2011 Bebout	SC-23.2	NanoSIP: Developing Community Imaging for Phylogenetic and Functional Characterization Using Cyanobacterial Mats	0

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NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-06ER25796 09/14/2011 Yee	SC-21.1	Simulations of Turbulent Flows With Strong Shocks and Density Variations	100
NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-09ER64784 06/30/2012 Globus	SC-23.2	Oxidative Stress and Skeletal Health with Low Dose, Low LET Ionizing Radiation	395
NAVAL POSTGRADUATE SCHOOL Monterey, CA	DE-AI02-07ER64461 09/29/2011 Maslowski	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a High-Resolution Regional Arctic ...	158
OCCIDENTAL COLLEGE Los Angeles, CA	DE-FG02-06ER54882 07/14/2013 Eggleston	SC-24.2	Studies of Particle Transport in a Non-Plasma Trap	60
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15517 02/14/2014 Ecker	SC-22.13	Analysis of Ethylene-Regulated Growth Networks in Arabidopsis	200
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15540 05/14/2014 Chory	SC-22.13	Signal Transduction Pathways that Regulate CAB Gene Expression	180
SAN DIEGO STATE UNIVERSITY San Diego, CA	DE-FG02-10ER65089 09/14/2013 Oechel	SC-23.1	Seasonal and Inter-Annual Controls on CO2 Flux in Arctic Alaska	125
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FG02-03ER41272 05/31/2012 Johnson	SC-26.1	Mean-Field and Moment Methods Applied to Nuclear Structure and Reactions	70
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FC02-09ER41587 11/30/2011 Johnson	SC-26.1	Building a Universal Nuclear Energy Density Functional	55
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FG02-09ER64765 06/14/2012 Shen	SC-23.1	Using ARM Observations to Evaluate GCM Cloud Statistics for Development of Stochastic Cloud-Radiation	35
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	DE-FG02-92ER40711 01/31/2014 Greensite	SC-25	Research in Theoretical High Energy Physics	120
N JOSE STATE UNIVERSITY FOUND. San Jose, CA	DE-FG02-07ER15853 02/29/2012 Silber	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	108
SCRIPPS RESEARCH INSTITUTE La Jolla, CA	DE-FG02-03ER46051 06/30/2013 Schultz	SC-22.23	Biopolymers Containing Unnatural Building Blocks	500
SOUNDVISION PRODUCTIONS Berkeley, CA	DE-FG02-07ER64479 08/31/2011 Scott	SC-23.2	Science Literacy Project for Mid-Career Public Radio Reporters, Producers, Editors, News Directors and Members of the	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER64128 02/29/2012 Pohost	SC-23.2	Development of Advanced Surgical Robotics "DARS"	0

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SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-06ER64322 03/14/2012 Pohost	SC-23.2	Development of Advanced Surgical Robotics "DARS"	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER46130 04/14/2013 Vashishta	SC-22.22	Thermomechanical Properties of Thin Films and Membranes of Functionalized Nanocrystals and Nanowire Arrays: Multimillion-to-Billion Atom Simulations	180
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-07ER46376 05/31/2013 Cronin	SC-22.22	Energy Transport in Graphene	142
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER46240 08/31/2014 Haas	SC-22.22	Quantum Quench Dynamics-Crossover Phenomena in Non-Equilibrium Correlated Quantum Systems	90
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-92ER40745 11/14/2013 Muggli	SC-25	Program for Plasma-Based Concepts for Future High Energy Accelerators	420
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-84ER40168 02/28/2014 Warner, Bars	SC-25	Theoretical Particle Physics	245
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER25967 12/14/2012 Ghanem	SC-21.1	RECOVERY ACT - Analysis and Reduction of Complex Networks Under Uncertainty	295
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25939 09/14/2012 Hochstein	SC-21.1	Software Construction and Composition Tools for Petascale Computing	95
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25900 07/31/2012 Lehman	SC-21.1	Virtualized Network Control (VNC) Project	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-08ER25834 09/14/2012 Chame	SC-21.1	Compiler-Directed Automatic Performance Tuning (TUNE)	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25757 09/14/2011 Kesselman	SC-21.1	A Center for Enabling Distributed Petascale Science	480
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25765 12/14/2011 Lucas	SC-21.1	Performance Engineering Research Center (PERC-3)	1,157
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25773 09/14/2011 Chervenak	SC-21.1	Scaling the Earth System Grid to Petascale Date	230
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25788 09/14/2012 Vashishta	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	108
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15629 12/31/2014 Reisler	SC-22.11	Photoinitiated Reactions of Radicals and Diradicals in Molecular Beams	135

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SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15685 12/14/2011 Krylov	SC-22.11	Theoretical Modeling of Spin-Forbidden Channels in Combustion Reactions	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16145 04/30/2013 Wittig	SC-22.11	Detailed Studies of Hydrocarbon Radicals: C2H Dissociation Dynamics	176
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16132 01/31/2013 Sahimi	SC-22.12	Nanoporous Membranes for Hydrogen Production: Experimental Studies and Molecular Simulation	160
SRI INTERNATIONAL Menlo Park, CA	DE-FG02-10ER65032 08/14/2013 Karp	SC-23.2	Curation and Computational Design of Bioenergy-related Metabolic Pathways (SRI Proposal ECU 10-602)	442
STANFORD UNIVERSITY Menlo Park, CA	DE-FG02-10ER65059 08/31/2013 Levin	SC-23.2	New Strategies for 0.5 mm Resolution, High Sensitivity, Multi-Radionuclide Imaging	500
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER65042 07/31/2013 Weyant	SC-23.1	Research in Integrated Assessment Inter-Model Development, Testing and Diagnostics	2,930
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER64837 08/14/2012 Diffenbaugh	SC-23.1	Impacts of High Resolution Extreme Events on US Energy Demand and CO2 Emissions in the 21st Century	57
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER46163 07/31/2014 Nix	SC-22.22	Mechanical Properties of Materials with Nanometer Scale Dimensions and Microstructures	150
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46391 03/31/2013 Dauskardt	SC-22.22	Molecular-Reinforced Hybrid Glass Films with Superior Thermo-Mechanical Properties	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46426 08/31/2013 Fan	SC-22.22	Nanophotonics Enhanced Solar Cells	270
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46579 07/31/2014 Prinz	SC-22.13	Center on Nanostructuring for Efficient Energy Conversion -- EFRC	4,000
STANFORD UNIVERSITY Stanford, CA	DE-FG02-05ER64136 08/31/2011 McAdams	SC-23.2	Dynamic Spatial Organization of Multi-Protein Complexes Controlling Microbial Polar Organization, Chromosome	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-08ER64552 04/30/2012 Spormann	SC-23.2	The Hopkins Microbiology Course	15
STANFORD UNIVERSITY Stanford, CA	DE-FG02-95ER62051 06/14/2014 Weyant	SC-23.1	Summer Workshops on Climate Change Impacts and Integrated Assessment of Climate Change	159
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER55059 08/14/2012 Cappelli	SC-24.2	Plasma-Enhanced Combustion of Hydrocarbon Fuels and Fuel Blends Using Nanosecond Pulsed Discharges	140

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STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46632 09/14/2012 Swartz	SC-22.23	Using In Vitro Maturation and Cell-Free Evolution to Understand (FeFe)hydrogenase Activation and Active Site Constraints	265
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER46731 04/30/2013 Bent	SC-22.23	Studies of Surface Reaction Mechanisms in Atomic Layer Deposition	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER41276 07/31/2013 Byer	SC-25	Development of High-Gradient Extended Dielectric Based Laser-Driven Particle Accelerator Structures	316
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER41295 03/31/2013 Cabrera, Gratta	SC-25	Stanford Non-Accelerator High Energy Physics Program	989
STANFORD UNIVERSITY Stanford, CA	DE-FC02-06ER25787 12/31/2011 Lele	SC-21.1	Simulations of Turbulent Flows With Strong Shocks	494
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER16198 09/14/2013 Waymouth	SC-22.12	Enabling Catalytic Strategies for Biomass Conversion	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER25726 03/31/2014 Durlinsky	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER25917 09/14/2012 Saunders	SC-21.1	Numerical Optimization Techniques for Systems Biology	481
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26026 08/31/2013 Alonso	SC-21.1	Large-Scale Uncertainty and Error Analysis for Time-Dependent Fluid/Structure Interactions in Wind Turbine Applications	223
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26028 08/31/2013 Iaccarino	SC-21.1	A High-Performance Embedded Hybrid Methodology for Uncertainty Quantification With Applications	159
STANFORD UNIVERSITY Stanford, CA	DE-FG02-88ER13857 02/29/2012 Hanson, Bowman	SC-22.11	Spectroscopy and Kinetics of Combustion Gases at High Temperatures	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-84ER13251 01/14/2014 Fayer	SC-22.11	Confinement, Interfaces, and Ions: Dynamics and Interactions in Water, Proton Transfer, and Room Temperature Ionic Liquid Systems	252
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER15588 05/31/2014 Pollard, Aydin	SC-22.12	Structural Heterogeneities and Paleo Fluid Flow in An Analog Sandstone Reservoir	282
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15423 06/30/2013 Nur	SC-22.12	Porous Rock with Fluid: Impact of Heterogeneity and Scale on Relations between Rock Properties	227
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15454 07/31/2013 Borja	SC-22.12	Mechanisms of Pore Collapse in High-Porosity Rocks	139



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STANFORD UNIVERSITY Stanford, CA	DE-FG02-08ER15990 08/31/2011 Tchelepi	SC-22.12	Multiscale Investigation and Modeling of Flow Mechanisms Related to CO2 Sequestration in Geologic Formations	222
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER15892 06/30/2014 Moerner	SC-22.13	Conformational and Chemical Dynamics of Single Proteins in Solution by Suppression of Brownian Motion	170
			Total for CA :	209,739

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ASPEN CENTER FOR PHYSICS Aspen, CO	DE-FG02-04ER41297 12/31/2011 Bhatt, Pinsky	SC-25	2009 Aspen Winter Conference on High Energy Physics	10
CLIMATE CENTRAL Boulder, CO	DE-FG02-10ER65123 09/14/2013 Tebaldi	SC-23.1	Detection and Attribution: New Frontiers and Applications	145
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER65008 06/30/2013 Rodriguez	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-scale Heterogeneity to Plume-scale Modeling	163
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-08ER64659 08/31/2012 Revil	SC-23.1	Advanced Self-Potential Inversion: Development and Use for Investigating Natural Recharge Processes at the ORNL IFC	160
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER64745 04/30/2012 Rodriguez	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	18
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER16157 10/31/2011 Gorman	SC-22.12	Kinetics and Mechanisms of Calcite Reactions with Saline Waters	95
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER16018 06/14/2012 Scales	SC-22.12	Characterization of Electrical and Mechanical Properties of Rocks at Sub-Millimeter Scales	148
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-93ER40789 03/31/2014 Greife	SC-26.1	Nuclear Structure and Astrophysics with Unstable Beams	271
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER46397 07/14/2013 Reimanis	SC-22.22	Mechanical Behavior in Ceramics with Unusual Thermal-Mechanical Properties	120
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-05ER46242 08/14/2014 Koh	SC-22.23	Energy Storage in Clathrate Hydrogen Material	250
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER41704 09/30/2012 Greife	SC-26.2	Development of a High-Density Gas-Jet Target for Nuclear Astrophysics and Reaction Studies with Rare Isotope Beams	750
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER46448 08/14/2014 Wang	SC-22.23	Directed Assembly of Rod-Coil Block Copolymers by Combined External Fields	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER64350 01/14/2012 Bedford	SC-23.2	Genetic Factors Affecting Susceptibility to Low Dose and Dose Rate Irradiation	346
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-06ER64302 08/31/2011 Randall	SC-23.1	Design and Testing of a Global Cloud-resolving Model	863
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64572 07/31/2011 Kummerow	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study the Aerosol Indirect Effects in China	70

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				FY 2010
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER63890 08/14/2011 Paul, Paustian	SC-23.1	Ecosystem Controls on C and N Sequestration Following Afforestation of Agricultural Lands	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-07ER54909 02/14/2012 Estep	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	90
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-93ER40788 12/14/2013 Toki, Harton, Wilson	SC-25	Research in High Energy Physics	683
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER41255 06/30/2014 Fairbank	SC-25	New Technique for Barium Daughter Ion Identification in a Liquid Xe-136 Double Beta Decay Experiment	145
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER26031 08/31/2013 Estep	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational	102
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER25976 03/14/2013 Strout	SC-21.1	Algorithms and Software for Communication Avoidance and Communication Hiding at the Extreme Scale (CACHE Institute)	108
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER25982 04/14/2015 Strout	SC-21.1	Separating Algorithm and Implementation via Programming Model Injection (SAIMI)	750
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER16193 09/14/2013 Chen	SC-22.12	Catalytic Conversion of Glucose and Cellulose into HMF: From a Fundamental Understanding to Discrete and Recyclable Catalyst Discovery	150
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15591 10/31/2013 Elliott	SC-22.13	Transition Metal Polypyridine Complexes: Studies of Mediation in Dye-Sensitized Solar Cells and Charge Separation in	160
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15592 12/31/2013 Rocca	SC-22.11	High Harmonic Generation in Discharge-Ionized Plasma Channels	142
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER15453 10/31/2012 Finke	SC-22.12	Supported Nanocluster Catalyst Formation Kinetic and Mechanistic Fundamental Studies	175
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-96ER14647 10/31/2011 Lundeen	SC-22.11	Properties of Actinide Ions from Measurements of Rydberg Ion Fine Structure	130
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64774 06/14/2012 Randall	SC-23.1	Challenges for Cumulus Parameterization in a Model with O(20 to 50)km Grid Spacing	147
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64772 06/30/2012 Prezzi	SC-23.1	Ice Nuclei Relation to Aerosol Properties in Mixed-Phase Clouds: Data Analysis and Model Parameterization	68
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64647 08/14/2011 Kampf	SC-23.1	Climate Change Impacts to Hydropower Generation in Pacific Northwest River Basins	106

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COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64622 09/28/2011 Reardon	SC-23.2	Sustainable Biofuels Development Center	486
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64629 08/14/2014 Leach	SC-23.2	An Integrated Approach to Improving Plant Biomass Production	350
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER64987 09/14/2012 Troxell	SC-23.2	Smart Grid Simulation Laboratory	874
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER64894 09/14/2012 Ryan	SC-23.1	Mercury Release from Natural Organic Matter (NOM), Minerals and NOM-Coated Mineral Surfaces	103
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65013 07/31/2011 Andrews	SC-23.1	RACORO Aerosol Data Processing	48
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65049 08/31/2012 Barnes	SC-23.2	Smart Grid Communication Security Project	972
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64639 08/14/2011 Ryan	SC-23.1	Colloid-Facilitated Transport of Radioactive Cations in the Vadose Zone: Field Experiments at Oak Ridge Field Laboratory	101
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64661 02/28/2013 Rajaram	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	80
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65113 09/14/2013 Duane	SC-23.1	An Interactive Multi-Model for Consensus on Climate Change	188
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65077 09/14/2013 Monson	SC-23.1	Carbon Cycling Dynamics in Response to Pine Beetle Infection and Climate Variation	349
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-93ER14364 10/31/2011 Ellison	SC-22.11	Interfacial Oxidation of Complex Organic Molecules	165
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-94ER14413 04/30/2012 Greene	SC-22.11	Physics of Correlated Systems	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER15613 11/14/2013 Bohn	SC-22.11	Reactive Scattering of Ultracold Molecules	65
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-02ER15346 11/30/2011 Cundiff	SC-22.11	Optical Two-dimensional Spectroscopy of Disorder Semiconductor Quantum Wells and Quantum Dots	157
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14982 11/14/2011 Kapteyn, Murnane	SC-22.11	Molecular Dynamics Probed by Coherent Electron and X-rays	170

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COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14990 12/31/2011 Holland	SC-22.11	Novel Light Sources Based on Ultracold Atoms in Collective Optical Cavity Systems	40
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16091 09/14/2012 Schwartz	SC-22.12	SISGR: Mapping Non-Covalent Surface Functionality Using Single-Molecule Probes	220
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16103 09/14/2012 Becker	SC-22.11	SISGR: Coherent Control of Electron Dynamics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16021 06/14/2012 Nesbitt	SC-22.11	Spectroscopy, Kinetics, and Dynamics of Combustion Radicals	144
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER15711 12/31/2011 Ye	SC-22.11	Cold and ultracold polar molecules	135
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15912 08/31/2013 Jonas	SC-22.13	Study of Multiple Exciton Generation with New Multi-Dimensional Spectroscopies	228
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER15959 06/14/2014 Michl	SC-22.12	Imaging of Conformational Changes	205
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15890 10/14/2011 Damrauer	SC-22.13	Applications to Adaptive Quantum Control to Research Questions in Solar Energy Conversion	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER25887 08/31/2012 Cai	SC-21.1	Scalable Optimization Algorithms for Systems Governed by Multi-Physics PDEs	247
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER25574 05/14/2013 Manteuffel	SC-21.1	First-Order System Least Squares, (FOSLS), for Nonlinear Systems Arising from DOE Applications	242
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER16206 08/31/2013 Medlin	SC-22.12	Selectivity Control Through Modification of Metal Catalysts with Organic Monolayers	210
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER25784 09/14/2012 Cai, McCormick	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	492
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41290 11/30/2012 Ford	SC-25	Elementary Particles and High Energy Phenomena, Tasks A, B, C, & T	1,832
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41317 05/31/2013 Cary	SC-25	Chaotic Dynamics and Advanced Computation for Beams and Accelerators	245
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER41244 02/29/2012 Nagle	SC-26.1	Experimental Relativistic Heavy Ion Physics at the University of Colorado at Boulder	336

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER54846 01/14/2012 Parker	SC-24.2	SciDAC - Center for Plasma Edge Simulation	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER54735 12/31/2012 Cary	SC-24.2	Analysis and Direct Numerical Simulation of RF Heating Processes and Advanced Computational Methods for Fusion	110
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER46652 09/14/2012 Murnane	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measure Using Tabletop Ultrafast EUV Sources	265
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER46686 04/14/2015 Hermele	SC-22.22	RECOVERY ACT - New States of Matter and Quantum Simulation with Ultracold Alkaline Earth Fermions	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER46687 04/14/2015 Jayaraman	SC-22.23	RECOVERY ACT - Theory and Simulation of Tailored Assembly in Rod-Coil Polymer Nanocomposite	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER55071 04/14/2015 Munsat	SC-24.2	RECOVERY ACT - Physics Analysis of Microwave Imaging Data from DIII-D & KSTAR	754
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54995 06/14/2014 Munsat	SC-24.2	Assessment of Edge Turbulence and Convective Transport Through Velocity Field Analysis	33
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-08ER54987 07/14/2011 Chen	SC-24.2	Center for Gyrokinetic/MHD Hybrid Simulation of Energetic Particle Physics in Toroidal Plasmas (CSEPP)	80
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-08ER54971 02/14/2016 Parker	SC-24.2	Center for Extended Magnetohydrodynamics	50
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54954 01/31/2014 Parker	SC-24.2	Gyrokinetic Turbulence Simulation of Turbulent Transport	100
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64539 04/30/2012 Ervens	SC-23.1	A Study of Cloud Processing of Organic Aerosols Using Models and CHAPS Data	118
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64462 08/14/2012 Cassano	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	164
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64464 08/14/2011 Tufo	SC-23.1	Petascale Atmospheric General Circulation Models for CCSM	388
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64468 08/14/2011 Vasilyev	SC-23.1	An Integrated Physics-and Numbers-Based Mesoscale Modeling and Simulation of Global Ocean Circulation	196
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER46489 06/30/2013 Feldheim, Eaton	SC-22.23	RNA Mediated Evolution of Catalysts for the Production of Alternative Fuels	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER46403 04/30/2013 Raj	SC-22.22	The Coupling Between Interfacial Charge and Mechanical Deformation at High Temperatures in Ceramics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER41661 04/14/2015 Marino	SC-25	RECOVERY ACT: Probing Neutrino Properties with Long-Baseline Neutrino Beams	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER46066 03/31/2013 Dessau	SC-22.22	Dynamics of Electronic Interactions in Superconductors and Related Materials	250
FRONT RANGE SCIENTIFIC COMP. Denver, CO	DE-FG02-07ER25814 02/28/2015 Henson	SC-21.1	Funding Application to Support the Annual Copper Mountain Conferences on Multigrid and Iterative Methods, Copper Mountain, Colorado, 2011-2014	12
GEOLOGICAL SURVEY, U.S. Lakewood, CO	DE-AI02-09ER64892 09/14/2012 Aiken	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	32
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-97ER54392 10/31/2011 D'Ippolito	SC-24.2	Basic Research in Magnetically-Confined Fusion Plasmas	597
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-02ER54678 08/14/2014 Myra	SC-24.2	Edge and Scrape-Off-Layer Physics for NSTX	58
LODESTAR RESEARCH CORP Boulder, CO	DE-FC02-05ER54823 03/31/2016 D'Ippolito	SC-24.2	Center for Simulation of Wave Plasma Interactions	75
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-09ER46671 09/14/2012 Silva	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measured Using Tabletop Ultrafast EUV	134
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-10ER41701 09/14/2013 Goodrich	SC-25	Critical Current Metrology for Nb3Sn Conductor Development	53
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-10ER41702 09/14/2013 Cheggour	SC-25	Electromechanical Properties of Superconductors for DOE/HEP Applications	130
NATIONAL OCEAN & ATMOS ADMIN Boulder, CO	DE-AI02-10ER64936 02/28/2013 Feingold	SC-23.1	The Radiative Properties of Small Clouds: Multi-Scale Observation and Modeling	139
SPEC INC Boulder, CO	DE-FG02-10ER64933 09/30/2011 Lawson	SC-23.1	Synthesis of In Situ Microphysical Measurements with Remote Retrievals and Models	164
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER25805 11/14/2010 Shasharina	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	86
TECH-X CORPORATION Boulder, CO	DE-FC02-09ER55018 07/31/2011 Cary	SC-24.2	Fusion Simulation Project (FSP)	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
TECH-X CORPORATION Boulder, CO	DE-FG02-09ER55006 02/14/2012 Smithe	SC-24.2	Non-Axisymmetric Modeling of RF in Tokamaks	95
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54953 03/31/2016 Smithe	SC-24.2	SciDAC Center for Simulation of Wave Plasma Interactions	85
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54972 02/14/2016 Kruger	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	84
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER54907 01/14/2012 Cary	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	699
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54875 06/30/2012 Kruger	SC-24.2	NIMROD Development and Applications for Advanced Simulations of Tokamak Plasmas	99
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54864 01/14/2012 Kruger	SC-24.2	Center for Simulation of Wave Plasma Interactions with Magnetohydrodynamics	50
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER41499 08/31/2012 Cary	SC-25	SciDAC: Community Petascale Project for Accelerator Science and Simulation	347
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-06ER25772 09/14/2011 Middleton	SC-21.1	Scaling the Earth System Grid to Petascale Data	560
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64574 06/14/2012 Grabowski	SC-23.1	Using Atmospheric Radiation Measurement (ARM) Observations to Validate and Improve Cloud Microphysical Schemes	136
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64575 06/14/2012 Dudhia	SC-23.1	Study of Multi-Scale Cloud Processes Over the Tropical Western Pacific Using Cloud Resolving Models Constrained by Satellite	131
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64535 01/14/2012 Smolarkiewicz	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	29
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-07ER64340 12/14/2011 Gent, Collins	SC-23.1	A Scalable and Extensible Earth System Model for Climate Change Science	535
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-05ER63993 12/31/2011 Madronich	SC-23.1	Secondary Organic Aerosols: Detailed Modeling and Comparison with MILAGRO Observations	160
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-97ER62402 12/31/2011 Washington	SC-23.1	DOE and UCAR Cooperative Agreement - Climate Modeling and Computer Hardware, Advanced Mathematics and Model Physics	2,876
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64594 07/31/2012 Otto-Bliesner	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	45



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65116 09/14/2013 Tribbia	SC-23.1	An Interactive Multi-Model Consensus on Climate Change	50
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65117 09/14/2013 Branstator	SC-23.1	Predictability and Impacts of Intrinsic Decadal Basin Modes in a Warming Climate	191
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65119 09/14/2013 Tribbia	SC-23.1	Regional Projections of Climate at Decadal Time Scales: High Resolution Global Predictions and Regionally Resolved	450
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65067 08/31/2013 Middleton	SC-23.1	Collaborative Research: Parallel Analysis Tools and New Visualization Techniques for Ultra-Large Climate Data Sets	353
Total for CO :				28,947

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CONNECTICUT STATE UNIVERSITY Hartford, CT	DE-FG02-10CH20007 06/30/2012 Bermudez	SC-23	Connecticut State University System Initiative for Nanotechnology-Related Equipment, Faculty Development and	649
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER14528 05/14/2011 Torgersen	SC-22.12	Air-Derived Noble Gases in Sediments: Sites and Mechanisms for Trapped Components	-76
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER14263 03/31/2013 Gould	SC-22.11	Experiments in Ultracold Collisions and Ultracold Molecules	166
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-86ER13622 11/30/2012 Suib	SC-22.12	Synthesis of Porous Nano-size Catalysts for Activation of CO2 and Selective Oxidations	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-06ER15805 07/14/2011 Gage	SC-22.13	Signal Transduction Networks Regulating Succinate-Mediated-Catabolite-Repression and Energy Metabolism in Nitrogen-fixing	0
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-05ER15734 10/31/2011 Cote	SC-22.11	Formation of Ultracold Molecules	81
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER16200 08/31/2013 Mustain	SC-22.12	Understanding the Effects of Surface Chemistry and Microstructure on the Activity and Stability of Pt	160
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER20203 07/14/2013 Reiter	SC-22.13	Regulation of Xyloglucan Galactosylation in Arabidopsis	170
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER40716 11/30/2012 Dunne	SC-25	Investigations in Particle and Field Theory	274
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-94ER40870 04/14/2013 Gai	SC-26.1	Studies in Low Energy Nuclear Physics	177
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-04ER41309 04/14/2013 Joo	SC-26.1	Medium Energy Nuclear Physics Experiment at Jefferson Lab	254
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46774 08/31/2013 Gokirmak	SC-22.22	Crystallization and Thermoelectric Transport in Silicon Microstructures and Nanostructures Under Extreme Electrical Stress	256
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46769 02/29/2012 Lin	SC-22.23	Engineering Multicatalytic Enzyme Assemblies for Efficient Biomass Conversion to Fuels	200
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46766 04/14/2014 Huey	SC-22.21	Switching in Solid State Memories via Nucleation and Growth Mechanisms: Causes and Effects at the Nanometer and Nanosecond Scale	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-09ER46562 03/31/2014 Huang	SC-22.23	Control of New Kinetic Barriers and Design of Nanorods	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-00ER45801 11/30/2011 Wells	SC-22.22	Charge Inhomogeneity in Correlated Electron Materials	94
GEOLOGICAL SURVEY, U. S. Storrs Mansfield, CT	DE-AI02-09ER64835 08/31/2012 Day-Lewis	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	132
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46770 08/31/2013 Schroers	SC-22.22	Using Artificial Microstructures to Understand Microstructure Property Relationship-Toughening Mechanisms in Metallic Glass	110
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46705 05/31/2013 Mochrie	SC-22.21	Dynamics of Block Copolymer Nanocomposites	188
YALE UNIVERSITY New Haven, CT	DE-FG02-04ER63892 12/14/2012 Smith	SC-23.1	Bridging the Divide: Linking Genomics to Ecosystem Responses to Climate Change	172
YALE UNIVERSITY New Haven, CT	DE-FG02-09ER46596 08/14/2012 Han	SC-22.23	Science of Heteroepitaxy for Energy-Efficient Lighting	170
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46482 12/31/2012 Glazman	SC-22.22	Electron Coherence and Interactions in Nanostructures	175
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46541 08/31/2014 Le Hur	SC-22.22	Non-Equilibrium Dynamics of Many-Body Quantum Systems: Fundamentals and New Frontiers	92
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER41690 08/31/2011 McKinsey	SC-26.2	Application of Two Phase (Liquid/Gas) Xenon Gamma-Camera for the Detection of Special Molecular Material, and PET Medical Imaging	342
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER41685 12/31/2012 Harris	SC-26.1	Relativistic Heavy Ion Physics	834
YALE UNIVERSITY New Haven, CT	DE-FG02-09ER41581 01/14/2012 Fleming	SC-25	Conference for Undergraduate Women in Physics to be held January 17-18, 2009	0
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER41504 08/31/2013 Hirshfield	SC-25	Ka-Band Test Facility for High-Gradient Accelerator R&D	442
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER20311 08/31/2013 Soll	SC-22.13	Engineering Selenoproteins for Enhanced Hydrogen Production	239
YALE UNIVERSITY New Haven, CT	DE-FG02-92ER40704 10/31/2013 Tipton, Sandweiss	SC-25	High Energy Physics Research, Tasks A, B, C, D, F, G, K and J	2,561
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40608 12/31/2012 Iachello, Alhassid	SC-26.1	Nuclear Theory	427

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40609 12/31/2012 Baker	SC-26.1	Nuclear Physics - Experimental Research	2,440
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER15909 02/28/2014 Brudvig	SC-22.13	Oxomanganese Catalysts for Solar Fuel Production	290
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15834 09/14/2012 Schwarz	SC-22.11	Atomic Resolution Imaging and Quantification of Chemical Functionality of Surfaces	140
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15741 11/30/2011 Wettlaufer	SC-22.12	Freezing in Porous Media: Phase Behavior, Dynamics and Transport Phenomena	0
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15800 06/30/2012 Johnson	SC-22.11	Coordinating experiment and theory to understand how excess electrons are accommodated by water networks through	250
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15677 12/31/2011 Tully	SC-22.11	The Role of Electronic Excitations on Chemical Reaction Dynamics at Metal, Semiconductor, and Nanoparticle Surfaces	175
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15714 01/31/2012 DeMille	SC-22.11	Production and Trapping of Ultracold Polar Molecules	135
YALE UNIVERSITY New Haven, CT	DE-FG02-01ER15183 10/31/2012 Haller	SC-22.12	Structured Carbon Supports for Aqueous Phase Reforming and Fuel Cell Catalysts	160
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15646 03/31/2012 Brudvig	SC-22.13	Carotenoid Function in Natural Photosynthetic Systems	154
YALE UNIVERSITY New Haven, CT	DE-FG02-84ER13297 11/30/2011 Crabtree	SC-22.12	Nitrogen-Rich Ligands for Catalytic C-H, N-H and O-H Activation	150
YALE UNIVERSITY New Haven, CT	DE-FG02-88ER13966 02/28/2015 Smooke, Long	SC-22.11	Computational and Experimental Study of Laminar Flames	237
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER14882 07/14/2014 Altman	SC-22.12	Structure-Reactivity Relationships in Multi-Component Transition Metal Oxide Catalysts	155
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER64590 07/31/2011 Fedorov	SC-23.1	What Controls the Structure and Stability of the Ocean Meridional Overturning Circulation: Implications for Abrupt	128
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER64638 08/14/2011 Saiers	SC-23.1	Colloid-Facilitated Transport of Radioactive Cations in the Vadose Zone: Field Experiments at Oak Ridge National Laboratory	53
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER65034 08/14/2013 Gerstein	SC-23.2	Tools and Models for Integrating Multiple Cellular Networks	403

Total for CT :

13,609

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-04ER15542 04/14/2014 Frommer	SC-22.13	Intergration of sugar transport, metabolism and sensing in Arabidopsis: Optimizing energy efficiency in plants- Evaluating and targeting leaks.	190
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-08ER15973 08/31/2013 Wang	SC-22.13	Proteomic Study of Brassinosteroid Responses in Arabidopsis	170
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-07ER64427 06/30/2012 Grossman	SC-23.2	Filling Knowledge Gaps in Biological Networks: Integrated Global Approaches to Understand H2 Metabolism in Chlamydomonas Reinhardtii	0
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-06ER46280 12/31/2012 Somayazulu	SC-22.21	Novel Molecular Materials for Hydrogen Storage Applications	325
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-09ER46574 07/31/2014 Mao	SC-22.22	Center for Energy Frontier Research in Extreme Environments (EFree) -- EFRC	2,880
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-02ER45955 11/30/2013 Struzhkin	SC-22.21	Magnetic and Superconducting Materials at High Pressures	159
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-99ER45775 01/31/2015 Mao	SC-22.21	HPCAT -- An Integrated High-Pressure Facility at the Advanced Photon Source	1,087
COUNCIL ON COMPETITIVENESS Washington, DC	DE-FG02-06ER25795 09/14/2010 Tichenor	SC-21	High Performance Computing Systems and Competitiveness Initiative	0
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-99ER41110 05/31/2014 Briscoe	SC-26.1	Data Analysis Center for Electromagnetic and Hadronic Scattering Processes	469
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-06ER41422 03/31/2012 Feldman	SC-26.1	Low-Energy Photonuclear Studies at HIGS and Lund	208
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40901 12/31/2011 Feldman	SC-26.1	A Program in Medium Energy Nuclear Physics	203
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40907 01/31/2013 Lee	SC-26.1	Nuclear Physics Calculations from QCD and EFT	170
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-05ER15736 11/30/2012 Cahill	SC-22.12	Control of Hydrothermal UO <sub>2</sub> N <sup>+</sup> Systems: A Solution Phase Approach to New Solid State Materials	100
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-02ER15366 06/30/2012 Teng	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	99
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-01ER15129 01/14/2013 Vertes	SC-22.12	Nanophotonic and Atmospheric Pressure Ion Production in Imaging Mass Spectrometry	145

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-09ER55041 08/14/2012 Keidar	SC-24.2	Mechanism of Synthesis of Ultra-Long Single Wall Carbon Nanotubes in Arc Discharge Plasma	60
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-08ER46542 08/31/2014 Freericks	SC-22.22	Time-resolved Photoemission, Transmissivity, X-Ray Absorption Spectroscopy and Resonant Inelastic X-Ray Scattering in Strongly Correlated	156
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-07ER15895 08/14/2013 Tong	SC-22.12	In-Situ NMR/IR/Raman and Ab Initital DFT Investigations of Pt-Based Mono- & Bi-Metallic Nanoscale Electro-Catalysts:	170
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-09ER64790 08/31/2012 Fornace	SC-23.2	A Metabolomics and Mouse Models Approach to Study Inflammatory and Immune Responses to Radiation	473
NATL CAP REG PUB BLDGS SERVICE Washington, DC	DE-AC01-10ER35914 05/31/2019 Graves	SC-46	Tele-Work Site	8
HOWARD UNIVERSITY Washington, DC	DE-FG02-94ER40854 05/31/2012 Hubsch	SC-25	Superstrings and Quantum Superfields	46
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER16071 12/31/2011 Zolandz	SC-22.12	Research Frontiers in Bioinspired Energy: Molecular-Level Learning from Natural Systems: A Workshop	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15915 08/31/2013 De Souza	SC-22.12	Board on Earth Sciences and Resources and its Activities	100
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER15953 06/28/2014 Shapero	SC-22.11	Partial Support of the Committee of Atomic, Molecular, and Optical Sciences	50
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15872 12/14/2013 Zolandz	SC-22.12	Board on Chemical Sciences and Technology and Chemical Sciences Roundtable	305
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-10ER30329 03/18/2011 Reid	SC-27	The Role of Engineering of STEM Education	324
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-05ER41400 08/14/2012 Shapero	SC-25	Partial Core Support of the Board on Physics and Astronomy	120
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER25840 09/29/2012 Eisenberg	SC-21.1	Core Research Activities and Studies of the Computer Science and Telecommunications Board	85
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-10ER16190 01/16/2012 Zolandz	SC-22.12	Assuring A Future US-Based Nuclear Chemistry Expertise	650
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-07ER54947 07/25/2012 Shapero	SC-24.2	Plasma Science Committee	60

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-96ER45554 08/14/2012 Shapero	SC-22.22	Partial Support of the Condensed Matter and Materials Research Committee	90
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-10ER41671 11/14/2011 Shapero	SC-25	An Assessment of Science Opportunities at the Proposed Deep Underground Science and Engineering Laboratory	296
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER41632 02/28/2012 Shapero	SC-26.1	An Assessment and Outlook for Nuclear Physics	185
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER64862 08/31/2011 Uhlir	SC-23.2	International Symposium on Designing the Microbial Research Commons	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-10ER65072 08/31/2012 Elfring	SC-23.1	A National Strategy for Advancing Climate Modeling	125
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-01ER41170 07/14/2013 Gold	SC-25	Development and Testing of Advanced Accelerator Structures and Technologies at 11.424 GHz	437
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-93ER40797 10/31/2011 Sprangle	SC-25	High Energy Laser-Driven Acceleration Based on the Laser Wake-Field Accelerator: Theory, Simulations, and Experiments	0
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-10ER64968 05/31/2013 Ringelisen	SC-23.1	Mechanisms for Electron Transfer through Pili to Fe(III) Oxide in Geobacter	152
SODEXHO CORPORATE SERVICES Washington, DC	DE-AP01-10ER35906 04/28/2010 Suarez	SC-4	Caterer for the National Academy of Sciences Building Venue for the 2009 Lawrence Awards Ceremony and Reception	8
Total for DC :				10,105

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-91ER40626 01/31/2012 Shafi	SC-25	Particle Theory and Cosmlogy	468
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER15688 08/14/2014 Chen	SC-22.12	Dedicated Beamline Facilities for Catalytic Research - Synchrotron Catalysis Consortium (SCC)	473
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER15921 02/14/2012 Lobo	SC-22.12	Novel Photocatalysts With One- and Two-Dimensional Nanostructures	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-00ER15104 11/14/2012 Chen	SC-22.12	Structure-Property Relationship in Metal Carbides and Bimetallic Alloys	135
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER15468 09/14/2012 Lobo, Barteau	SC-22.12	From Frist Principles Design to Realization of Bimetallic Catalysts for Enhanced Selectivity	680
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-92ER14273 08/31/2012 Theopold	SC-22.12	Catalysis of Small Molecule Activation by Proton Coupled Electron Transfer	160
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46374 06/30/2013 Xiao	SC-22.21	Center for Spintronics and Biodetection	861
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46626 08/14/2012 Furst	SC-22.21	Directed Self-Assembly of Nanodispersions	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46627 08/14/2012 Bobev	SC-22.21	Synthesis and Structure Characterization of Novel Intermetallic Clathrates-Prospective Materials for	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER41711 08/14/2011 Shafi	SC-25	DUSEL Physics Workshop, October 1-3, 2010	8
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER46038 02/14/2012 Glyde	SC-22.21	Neutron Scattering Studies of Classical and Quantum Fluids in Nanoporous Media	150
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-90ER45413 06/18/2013 Hadjipanayis	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	84
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER46756 08/14/2014 Hertz	SC-22.23	Improved Electrochemical Performance of Strained Lattice Electrolytes via Modulated Doping	137
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER64450 08/31/2013 Green	SC-23.2	Genome-wide Analysis of miRNA Targets in Brachypodium and Biomass Energy Crops	266
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER65010 09/14/2011 Chen	SC-23.2	University of Delaware Energy Institute	486

Total for DE :

3,938



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BARRY UNIVERSITY, INC. Miami Shores, FL	DE-FG02-10CH20009 09/29/2013 LaLonde	SC-23	Barry University - Enhancing a Student-Centered Approach to Science Education and Research Project	1,166
ETHUNE-COOKMAN UNIVERSITY INC. Daytona Beach, FL	DE-FG02-10CH20008 09/29/2011 Range	SC-23	Bethune-Cookman University STEM Research Lab (FL)	243
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER46354 01/14/2012 Rahman	SC-22.22	Theoretical and Computational Studies of Characteristics of Metallic Nanoalloys	111
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER64455 07/31/2012 Winterhalter	SC-23.1	The Response of a Seasonal Ectotherm (Allenemobius Socius) to Global Warming	185
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER25747 02/28/2011 Wang	SC-21.1	A Lightweight, High-Performance I/O Management Package for Data-Intensive Computing	0
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER15842 09/14/2012 Rahman	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	838
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-08ER15995 08/14/2014 Roldan-Cuenya	SC-22.12	Size- and Shape-Selected Micellar Metal nanoparticles ad Model Systems for Structure-Sensitive Chemical Reactions: Oxidation State Effects	339
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-10ER64952 05/31/2013 Campiglia	SC-23.1	Field Deployable, Nano-Sensing Approach for Real-Time Detection of Free Mercury, Speciation and Quantification in Surface	182
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-09CH11562 12/31/2011 Weatherford, Johnson	SC-23	Florida A&M University (FAMU) Spheromak Turbulent Plasma Experiment (STPX) in Collaboration with West Virginia University	486
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-96ER40998 07/31/2012 Williams	SC-25	Electron Beam Transport in Advanced Plasma Wave Accelerators	131
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-97ER54417 06/30/2013 Mezonlin	SC-24.2	Laser Induced Fluorescence and Neutral Particle Analyses for Ion Temperature Determinations	156
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-03ER54725 08/14/2012 Appartaim	SC-24.2	Dynamics of X-pinchs Powered by a Capacitor Bank	140
FLORIDA INSTITUTE OF TECH. Melbourne, FL	DE-FG02-03ER41264 05/31/2012 Baarmand	SC-25	Experimental Investigation of Hadron Collisions at the Highest Center-of-Mass Energies	276
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-01ER41172 04/14/2013 Sargsian	SC-26.1	Theoretical Studies of High Energy Electronuclear Processes	72
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-99ER41065 01/31/2014 Reinhold, Boeglin, Markowitz, Raue	SC-26.1	Nuclear Physics Research at Jefferson Lab	499

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-10CH20006 07/31/2012 Chowdhury	SC-23	State-of-the-Art Large-Scale Testing for Wind to Enhance Infrastructure Resiliency and Develop Energy-Efficient Buildings	972
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-04ER15570 10/31/2013 Mebel	SC-22.11	Theoretical studies of chemical reactions related to the formation and growth of polycyclic aromatic hydrocarbons and molecular properties of their key intermed	95
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER55045 08/14/2012 Boeglin	SC-24.2	A Fast Proton Diagnostic for NSTX	96
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-07ER46461 08/14/2013 Chen	SC-22.21	Influence of Pressure on Physical Property of Ammonia Borane and its Re-Hydrogenation	245
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER64737 04/30/2012 Zhu	SC-23.1	ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy Boundary Layers	78
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64744 04/30/2012 Ye	SC-23.1	Mult-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	64
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64865 08/14/2012 Gunzburger	SC-23.1	Collaborative Proposal: Transforming How Climate System Models are Used: A Global, Multi-Resolution Approach to Regional	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER65094 08/31/2013 LaRow	SC-23.1	Role of Low Frequency Sea Surface Temperature Modes Within a Changing Climate in Modulating Atlantic Hurricane Activity	324
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER65122 09/14/2013 Cai	SC-23.1	Collaborative Research: Process-Resolving Decomposition of the Global Temperature Response to Modes of Low Frequency	138
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-08ER46494 02/29/2012 El-Azab	SC-22.22	Statistical Mechanics Modeling of Mesoscale Deformation in Metals	108
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER46451 11/30/2013 Smirnov	SC-22.22	Infrared Optical Study of Graphene in High Magnetic Fields	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER46634 09/14/2012 Balicas	SC-22.22	SISGR - High Magnetic Fields as a Probe to Unveil the Physical Properties of the Newly Discovered Fe Oxypnictide Superconductors and Related Compounds	150
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER46212 06/30/2014 Engel	SC-22.22	Microwave Spectroscopy of Electron Solids: Fractional Quantum Hall Effect and Controlled Disorder	102
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER41629 08/31/2012 Roberts	SC-26.1	Research in Hadron Physics	105
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER45639 07/31/2014 Bonesteel	SC-22.22	Correlated Electrons in Reduced Dimensions	70

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-98ER45707 02/14/2014 Schlottmann	SC-22.22	Strongly Correlated Electrons	55
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64432 07/14/2012 Gunzburger	SC-23.1	New Grid and Discretization Technologies for Ocean and Ice Simulations	228
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64470 08/14/2011 Chassignet	SC-23.1	Incorporation of the HYbrid Coordinate Ocean Model (HYCOM) into the Community Climate System Model (CCSM): Evaluation and Climate Applications	194
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-06ER54881 06/30/2014 Lee	SC-24.2	Understanding and Development of High Field Superconductors for Fusion	90
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER41022 12/31/2011 Prosper, Owens	SC-25	High Energy Physics	1,083
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-02ER41220 07/14/2014 Wiedenhoever	SC-26.1	Spectroscopy of Resonances in the Astrophysical rp-Process Path	62
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER41451 03/31/2014 Larbalestier	SC-25	High Field Superconductor Development and Understanding	883
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER26035 12/31/2013 Gunzburger	SC-21.1	Mathematical and Numerical Analyses of Peridynamics for Multiscale Materials Modeling	50
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-96ER40952 01/31/2014 Van Sciver	SC-25	Liquid Helium Fluid Dynamics Studies	467
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40750 03/14/2013 Piekarewicz	SC-26.1	From Quarks to the Cosmos	250
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40735 10/31/2013 Eugenio	SC-26.1	Experimental Hadronic Nuclear Physics	302
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-97ER41029 06/30/2013 Yelton	SC-25	High Energy Experimental and Theoretical Research	3,627
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER25913 08/31/2012 Sanders	SC-21.1	Super Instruction Architecture for Scalable Parallel Computations	199
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15484 03/14/2013 Schanze, Kleiman, Reynolds	SC-22.13	Conjugated Polymers and Polyelectrolytes in Solar Photoconversion	395
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15478 08/31/2012 Weaver	SC-22.12	Growth and Reactivity of Oxide Phases on Crystalline Pd and Pt Surfaces	200

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-98ER14853 08/31/2012 Ladd	SC-22.12	Multiscale Modeling of Dissolution in Rough Fractures	167
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER15650 07/14/2014 Maupin-Furlow	SC-22.13	Ubiquitin-like Proteins in Protein-conjugation and Sulfur-transfer in Archaea	131
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER64499 08/31/2011 Peter	SC-23.2	Integrated Nondestructive Spatial and Chemical Analysis of Lignocellulosic Materials During Pretreatment and	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-08ER64585 06/14/2012 Hatfield	SC-23.1	Novel Sensor for the In Situ Measurement of Uranium Fluxes	378
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER54946 07/31/2011 Dufty	SC-24.2	Correlations in Confined Quantum Plasmas	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-99ER45748 01/31/2014 Andraka	SC-22.22	Heavy Fermions, Quantum Criticality, and Unconventional Superconductivity in Filled Skutterudites and Related Materials	102
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-86ER45268 11/30/2012 Stewart	SC-22.22	Fe Pnictide and f-Electron Novel Materials/Magnetism, Superconductivity, and Quantum Criticality	150
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45984 05/14/2012 Tanner	SC-22.22	Time-resolved Synchrotron Studies of Spin and Charge Dynamics in Solids	165
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45995 11/30/2011 Cheng	SC-22.22	A Computational Approach to Complex Junctions and Interfaces	230
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46247 08/31/2012 Yelton, Tanner	SC-22.22	Collective behaviors of the Casimir force in micromechanical systems	113
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46236 08/31/2014 Hirschfeld	SC-22.22	Theory of Novel Superconductors	105
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER46611 08/31/2012 Trickey	SC-22.22	TMS: Orbital-Free Quantum Simulation Methods for Application to Warm Dense Matter	425
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER46464 05/31/2013 So	SC-22.23	Luminescence in Conjugated Molecular Materials Under Sub-Bandgap Excitations	160
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-10ER64942 04/14/2015 Kirst	SC-23.2	RECOVERY ACT - A Systems Biology, Whole-Genome Association Analysis of the Molecular Regulation of Biomass Growth & Composition in Populus deltoides	836
MIAMI DADE COMMUNITY COLLEGE Hialeah, FL	DE-FG02-10CH20005 09/29/2011 Bradley-Hess	SC-23	The Physics and Biological Sciences Laboratory Learning Center at Miami Dade College- Hialeah Campus	388

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-09ER64779 06/14/2012 Mapes	SC-23.1	Parameterizing Convective Organization	180
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-09ER64738 04/30/2012 Albrecht	SC-23.1	Collaborative Research: ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy	119
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-10ER65078 08/31/2013 Clement	SC-23.1	Investigating the Mechanisms of Walker Circulation Variability on Decadal Timescales and in Response to Anthropogenic Forcing	399
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-10ER65080 08/31/2013 Soden	SC-23.1	Assessing Surface Radiative Feedbacks and Radiative Forcings in CMIP-5 Models	306
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-10ER46782 08/31/2013 Ponomareva	SC-22.22	Atomistic Study of Ultrafast Dynamics in Multifunctional Materials in Bulk and Nanoforms	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-04ER46145 06/14/2014 Nolas	SC-22.23	A Fundamental Study of Inorganic Clathrate and Other Open-Framework Materials	377
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-06ER46297 07/14/2012 Woods	SC-22.22	Theoretical Studies of Graphitic Nanostructured Materials Interactions	115
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-07ER46438 08/31/2013 Srikanth	SC-22.22	Magnetic Frustration and Cooperative Phenomena in Correlated Electron Oxide Materials	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-09ER16082 09/14/2012 Batzill	SC-22.12	Photocatalysis of Modified Transition Metal Oxide Surfaces	200
TERAFLUX CORPORATION Boca Raton, FL	DE-FG02-08ER64534 04/14/2012 Prusa	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	80

Total for FL :

20,852

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ICKASAW ADVISORY SERVICES, LLC Atlanta, GA	DE-AC02-10ER35896 01/31/2015 Osteen	SC-45	Administrative, Technical, Professional, Information Management and Technology Support and Assistance to the Office of Science	4,478
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-97ER14743 03/31/2013 Msezane	SC-22.11	Electron/Photon Interactions with Atoms/Ions	80
EMORY UNIVERSITY Atlanta, GA	DE-FG02-07ER15906 08/31/2013 Hill	SC-22.13	Solar Energy-Driven Multi-Electron-Transfer Catalysts for Water Splitting: Robust and Carbon-Free Nano-Triads	300
EMORY UNIVERSITY Atlanta, GA	DE-FG02-97ER14782 10/31/2012 Bowman	SC-22.11	Theoretical Studies of Combustion Dynamics	260
EMORY UNIVERSITY Atlanta, GA	DE-FG02-03ER15461 09/14/2012 Musaev	SC-22.12	Principles of Selective O <sub>2</sub> -Based Oxidation by Optimal (Multinuclear) Catalytic Sites	240
EMORY UNIVERSITY Atlanta, GA	DE-FG02-01ER15153 08/14/2013 Heaven	SC-22.12	Spectroscopic Studies of Prototypical Actinide Compounds	151
EMORY UNIVERSITY Atlanta, GA	DE-FG02-02ER15377 06/14/2014 Lynn, Conticello	SC-22.13	Engineering Functional Scaffolds by Supramolecular Self-Assembly	180
S INST., INC., MEDICAL COL. OF Augusta, GA	DE-FG02-09ER64788 06/30/2012 Dynan	SC-23.2	Links Between Persistent DNA Damage, Genome Instability, and Aging	270
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-09ER64816 07/31/2011 Elliott	SC-23.1	The Natural Enrichment of Stable Cesium in Weathered Micaceous Materials and Its Implications for <sup>137</sup> Cs Sorption	67
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-01ER15213 10/31/2013 Stockman	SC-22.11	Femtosecond and Attosecond Laser-Pulse Energy Transformation and Concentration in Nanostructured Systems	100
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-03ER15428 10/31/2012 Manson	SC-22.11	Ionization of Free and Confined Atoms and Ions	69
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-98ER41068 03/31/2014 He	SC-26.1	Research in Heavy Ion Nuclear Reactions	152
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-09ER46635 09/14/2012 Mani	SC-22.22	SISGR - Microwave- and Terahertz- Photo-Excited Transport in the Two Dimensional Electron System	120
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46604 05/31/2013 Tsukruk	SC-22.23	Guided Assembly of Anisotropic Micro-Structures Into Mesoscale Hierarchies	250
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46592 02/28/2013 Kroger	SC-22.23	(Bio)Chemical Tailoring of Biogenic 3-D Nanopatterned Templates With Energy-Relevant Functionalities	300

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER46229 08/31/2012 Chou	SC-22.22	First-Principles Studies of Phase Stability and Reaction Dynamics in Complex Metal Hydrides	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46281 03/31/2012 Davidovic	SC-22.22	Spin Polarized Electron Transport Through Aluminum Nanoparticles	130
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46293 07/31/2013 Riedo	SC-22.22	NanoMechanics: Elasticity and Friction in Nano-Objects	140
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-07ER46394 01/31/2012 Wang	SC-22.22	Piezoelectric Nanogenerators for Self-Powered Nanosystems and Nanosensors	137
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46343 05/31/2013 Zhang	SC-22.22	Measurement of Near Field Thermal Radiation Between Flat Surfaces with Nanogap	110
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-86ER45234 11/30/2012 Landman	SC-22.22	Structure and Dynamics of Material Surfaces, Interphase-Interfaces and Finite Aggregates	225
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-85ER45194 12/31/2011 Tolbert	SC-22.23	The Organic Chemistry of Conducting Polymers: From One to Two Dimensions	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER45632 12/31/2012 Chou	SC-22.22	First-Principles Investigation of Complex Materials Properties	80
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER46141 05/14/2013 Tolbert, Bunz	SC-22.23	Morphosynthesis of Organic Semiconductors and Their Engineered Nanodot Composites	218
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-09ER55008 01/14/2012 Schwan	SC-24.2	Center for Plasma Edge Simulation (CPES)	54
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-99ER54538 03/31/2014 Stacey	SC-24.2	Collaborative Analysis of DIII-D	165
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-01ER54656 01/31/2013 Yoda	SC-24.2	Advanced Design Studies	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER25875 05/31/2012 Biros	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	300
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER26021 08/31/2013 Dovrolis	SC-21.1	Detection, Localization and Diagnosis of Performance Problems Using PerfSONAR	174
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26014 08/31/2013 Schwan	SC-21.1	Runtime System for I/O Staging in Support of In-Situ Processing of Extreme Scale Data	67

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26006 08/31/2013 Vuduc	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	104
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER25711 08/31/2010 Mischaikow	SC-21.1	Multiscale Analysis of Nonlinear Systems Using Computational Topology	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15450 10/31/2012 Raman	SC-22.11	Dual Quantum Gases of Bosons: From Atomic Mixtures to Heteronuclear Molecules	140
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15459 09/14/2012 Jones	SC-22.12	Developing the Science of Immobilized Molecular Catalysts	700
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER15510 12/14/2011 Koros	SC-22.12	Synthesis and Analysis of Polymers With High Permeabilities and Permselectivities for Gas Separation Applications	120
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-02ER15337 10/31/2011 Orlando	SC-22.11	Low-Energy Electron Interactions with Liquid Interfaces and Biological Targets	145
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER14799 05/31/2012 El-Sayed	SC-22.11	Time Resolved Optical Studies on the Plasmonic Field Effects on Bacteriorhodopsin Proton Pump Function	144
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-08ER15964 06/30/2011 Sholl	SC-22.12	Ab-Initio Screening of Alloys for Hydrogen Purification Membranes	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER64897 09/14/2012 Taillefert	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	95
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65104 09/14/2013 Taillefert	SC-23.1	Mineral Solubility and Free Energy Controls on Microbial Reaction Kinetics: Application to Contaminant Transport....	299
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65105 09/14/2013 Di Lorenzo	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	241
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65083 08/31/2013 Black	SC-23.1	A Study of Long-Term Changes in Cold Air Outbreaks and Warm Spells	411
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65121 09/14/2013 Deng	SC-23.1	Collaborative Research: Process-Resolving Decomposition of the Global Temperature Response to Modes of Low Frequency Variability in a Changing Climate	228
GEORGIA, UNIVERSITY OF Athens, GA	DE-FG02-10ER65064 08/31/2013 Summers	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	80
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-10ER64983 06/14/2013 Summers	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-10ER65038 07/31/2013 Harding	SC-23.2	Organ and Tissue-specific Sucrose Transporters: Important Hubs in Gene and Metabolite Networks Regulating Carbon Use	884
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-08ER64690 09/14/2012 Scott	SC-23.2	Systems-Level Description of Metabolic and Regulatory Pathways fo a Hydrogen-Producing Model Microorganism	400
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-05ER15710 08/31/2011 Adams	SC-22.13	Fundamental Studies of Recombinant Hydrogenases	230
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-97ER14748 01/14/2013 Allen, Schaefer	SC-22.11	Theoretical Studies of Elementary Hydrocarbon Species and Their Reactions	202
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-96ER14658 11/14/2011 Duncan	SC-22.11	Transition Metal-Molecular Interactions Studied with Cluster Ion Infrared Spectroscopy	136
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-03ER15415 08/14/2012 Ye	SC-22.13	Secondary Wall Formation in Fiber Cells	175
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-96ER20220 06/14/2012 Darvill	SC-22.13	Structural Studies of Complex Carbohydrates of Plant Cell Walls	409
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-93ER20097 12/31/2012 Darvill	SC-22.13	Center for Plant and Microbial Complex Carbohydrates	1,160
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-95ER20175 04/14/2014 Adams	SC-22.13	Hypothermophilic Multiprotein Complexes and Pathways for Energy Conservation and Catalysis	170
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-06ER64321 09/30/2011 Leclerc	SC-23.1	A New Carbon Flux Super Site: Innovative Methods of Atmosphere-Terrestrial Carbon Exchange Measurements and Modeling	0
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-07ER64326 10/31/2011 Adams	SC-23.2	Molecular Assemblies, Genes and Genomics Integrated Efficiently (MAGGIE)	570
MOREHOUSE SCHOOL OF MEDICINE Atlanta, GA	DE-FG02-06CH11439 06/30/2011 Fox, Sullivan	SC-23	Planning for Construction of a Research Facility at Morehouse School of Medicine	0
H GEORGIA COLLEGE & STATE UNIV Dahlonega, GA	DE-FG02-97ER41046 02/29/2012 Prior	SC-26.1	Radiative Capture and Gamma-Induced Reactions at Low Energies	121
Total for GA :				16,656

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-03ER15411 07/14/2012 Kaiser	SC-22.11	Probing the Reaction Dynamics of Hydrogen-Deficient Hydrocarbon Molecules and Radical Intermediates via Crossed Molecular Beams	137
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER16002 07/31/2013 Jahren	SC-22.12	Development of the Carbon Isotope Signature of Terrestrial n-Alkanes as a Potential Proxy for Paleo-pCO2	170
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER15885 07/31/2012 Vicic	SC-22.12	Development of Catalytic Alkylation and Fluoroalkylation Methods	145
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-04ER41291 11/30/2012 Browder, Tata	SC-25	Research in High Energy Physics	1,903
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER64445 07/31/2011 Annamalai	SC-23.1	Future Projections of Mean and Variability of the Asian Summer Monsoon and Indian Ocean Climate Systems	185
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER46408 05/31/2013 Ming	SC-22.23	Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures	195
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER41697 08/31/2011 Varner	SC-25	Fast Feature Extracted High Precision Timing, Integrated Photodetector Readout	95
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER65106 09/14/2013 Schneider	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	132
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER65112 09/14/2013 Jin	SC-23.1	Assessing Enso Regime Changes in a Changing Climate	371
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER64776 07/31/2012 Phillips	SC-23.1	Study of Mechanisms of Aerosol Indirect Effects on Glaciated Clouds	58
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER64881 12/31/2011 Fu	SC-23.1	Improve the Representation of Convection-PBL Interactions in Two Global General Circulation Models (CAM & ECHAM)	0
Total for HI :				3,391

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-87ER40371 06/14/2014 Vary, Qiu	SC-26.1	Intermediate/High Energy Nuclear Physics	320
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-92ER40692 11/14/2012 Hill	SC-26.1	Relativistic Heavy Ion Physics	598
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER41155 10/31/2012 Krennrich, Cochran	SC-25	Investigations in Experimental and Theoretical High Energy Physics	1,238
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-94ER20147 08/31/2013 Rodermel	SC-22.13	Regulation of chloroplast biogenesis: the immutans mutant of Arabidopsis	170
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-09ER16088 09/14/2012 Zhao	SC-22.12	SISGR: Biomimetic Catalysts Responsive to Specific Chemical Signals	440
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER46690 04/14/2015 O'Donnell	SC-22.23	RECOVERY ACT - Templating of Liquid Crystal Microstructures by Reversible Addition-Fragmentation Chain Transfer Polymerization	600
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER63250 03/14/2012 Gutowski	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	105
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-08ER64559 05/14/2012 Wu	SC-23.1	Understanding and Improving CRM and GCM Simulations of Cloud Systems with ARM Observations	113
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-07ER64463 08/14/2012 Gutowski	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	115
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-09ER41622 08/14/2011 Hauptman	SC-25	4Th Letter of Intent R&D for the Development of the 4th Concept Detector.	0
IOWA STATE UNIVERSITY Ames, IA	DE-FC02-09ER41582 11/30/2011 Vary	SC-26.1	Building a Universal Nuclear Energy Density Functional	136
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER41719 08/31/2013 Lajoie	SC-26.1	Investigation of Quark Sea and Orbital Angular Momentum Contributions to Nucleon Spin	38
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER65074 08/31/2012 Ewing	SC-23.1	Modeling Effects of Pore-Scale Physics on Uranium Geochemistry in Hanford Sediments	40
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-08ER64664 09/14/2011 Marek	SC-23.2	Genomics of Wood Formation and Cellulosic Biomass Traits in Sunflower	50
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-09ER64801 06/30/2012 Spitz	SC-23.2	Mitochondrial-Derived Oxidants and Cellular Responses to Low Dose/Low LET Ionizing Radiation	470

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-07ER54943 07/31/2012 Pickett	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves on Current Layers	0
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-04ER54795 08/14/2014 Merlino	SC-24.2	Experimental Investigations of Fundamental Processes in Dusty Plasmas	200
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-99ER54543 06/30/2012 Skiff	SC-24.2	Correlations and Fluctuations in Weakly Collisional Plasma	209
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-86ER40286 05/31/2013 Polyzou	SC-26.1	Relativistic Few-Body Hadronic-Physics Calculations	130
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-91ER40664 02/28/2013 Mallik	SC-25	High Energy Physics	667
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-97ER25308 03/31/2013 Corones	SC-21.1	Computational Science Graduate Fellowship Program	7,800
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-09ER25935 09/14/2012 Galarowicz	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	76
NORTHERN IOWA, UNIVERSITY OF Cedar Falls, IA	DE-FG02-10ER65020 09/14/2011 Thiel	SC-23.2	University of Northern Iowa Center for Advanced Bio-Based Binders and Pollution Reduction Technology	923
Total for IA :				14,438

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BOISE STATE UNIVERSITY Boise, ID	DE-FG02-07ER46396 07/14/2014 Mullner	SC-22.22	Fracture Mechanisms and Fatigue of Magnetic Shape-Memory Alloys	143
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46623 08/14/2012 Forest	SC-22.21	The Development of a Positron Source for JLab at the IAC	15
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46624 08/14/2012 Chandler	SC-22.21	Experimental Studies of the Transport Parameters of Warm Dense Matter	15
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-09ER46625 08/14/2012 Bitterwolf	SC-22.21	Time-Resolved XAFS Spectroscopic Studies of B-H and N-H Oxidative Addition to Transition Metal Catalysts Relevant to	15
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-10ER46716 07/31/2013 Crepeau	SC-22.21	Fundamental Fluid Physics Studies for Energy Efficiency and Sustainability	584
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-07ER64404 05/31/2012 Smith	SC-23.1	Field Investigations of Microbially Facilitated Calcite Precipitation for Immobilization of Strontium-90 and Other	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-03ER41270 07/31/2012 Sammarruca	SC-26.1	Nuclear Theory at the University of Idaho	75
Total for ID :				847

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER65030 08/14/2013 Stevens	SC-23.2	Dev. of an Extensible Computational Framework for Centralized Storage and Distributed Curation and Analysis of	473
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER16092 09/14/2011 Sutton	SC-22.12	SISGR - Canted Undulator Upgrade for GeoSoilEnviroCARS (Sector 13) at the Advanced Photon Source	348
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER16113 09/14/2012 Sibener	SC-22.11	SISGR - Chemical Imaging and Dynamical Studies of Reactivity and Emergent Behavior in Complex Interfacial Systems	295
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER16186 08/31/2012 Swanson	SC-22.11	Characterizing Coupled Charge Transport with Multiscale Molecular Dynamics	120
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER16171 08/31/2014 Voth	SC-22.12	Computer Simulation of Proton Transport in Fuel Cell Membranes	160
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15865 05/14/2013 He	SC-22.12	Selective Recognition of Heavy Elements by Protein-Based Reagents	330
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15910 02/28/2014 Hopkins	SC-22.13	New Transition Metal Building Blocks and Assemblies for Photocatalytic Fuel Production	176
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-01ER15254 07/31/2014 Richter	SC-22.12	Kinetic Isotope Fractionation by Diffusion in Liquids	185
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-94ER14466 08/14/2016 Sutton	SC-22.12	GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the	784
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14244 11/14/2011 Sutton	SC-22.12	Synchrotron X-Ray Microprobe and Microspectroscopy Research In Low Temperature Geochemistry	205
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14305 03/31/2015 Butler	SC-22.11	Dynamics of Product Branching in Elementary Combustion Reactions: OH + Alkenes and Nitrogen Chemistry	140
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25921 09/14/2012 Stein	SC-21.1	Scalable Statistical Analysis of Gaussian Models for Petascale Spatiotemporal Data	99
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25912 08/31/2012 Khokhlov	SC-21.1	First-Principles Petascale Simulations for Predicting Deflagration to Detonation Transition in Hydrogen-Oxygen Mixtures	205
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25883 08/31/2012 Birge	SC-21.1	Stochastic Optimization of Complex Systems	160
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FC02-10ER26012 08/31/2013 Katz	SC-21.1	ExM: System Support for Extreme-Scale, Many-Task Applications	223

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CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-90ER40560 10/31/2012 Martinec	SC-25	Participation in High Energy Physics	851
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER64501 08/31/2011 Kent	SC-23.2	Use of Modern Chemical Protein Synthesis and Advanced Fluorescent Assay Techniques to Experimentally Validate the Functional	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER46326 08/14/2012 Guyot-Sionnest	SC-22.22	Colloidal Quantum Dot Films. Transport and Magnetotransport	130
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-03ER46088 04/30/2013 Nagel	SC-22.22	Studies of the Marginally Jammed Solid	125
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-99ER45789 11/30/2011 Rosenbaum	SC-22.22	Coherent Excitations in Disordered Quantum Materials	150
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER41651 12/31/2012 Wah	SC-25	Rare Kaon Decays, KEK Experiment E391 and E14 at the Japan Physics and Accelerator Research Complex (J-PARC)	245
DEPAUL UNIVERSITY Chicago, IL	DE-FC02-06ER41441 03/14/2012 Di Pierro	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	72
HDF GROUP, THE Champaign, IL	DE-FC02-10ER26003 08/31/2013 Koziol	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	125
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FC02-06ER41442 09/14/2011 Sun	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	30
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-01ER41159 01/14/2014 Torun, Kaplan	SC-25	Participation in Muon Collider/Neutrino Factory Research and Development	90
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-94ER40840 03/31/2012 White	SC-25	Participation in High Energy Physics	491
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-09ER25884 08/31/2012 Hickernell	SC-21.1	Stochastic Optimization of Complex Systems	62
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER26004 08/31/2013 Hwu	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	235
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER26011 08/31/2013 Hoefler	SC-21.1	Compiled MPI: Cost-Effective Exascale Applications Development	55
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER25992 08/31/2013 Torrellas	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	160

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				FY 2010
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER25966 12/14/2012 Shanbhag	SC-21.1	RECOVERY ACT - Extending the Realm of Optimization for Complex Systems: Uncertainty, Competition and Dynamics	1,031
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER25969 03/14/2013 Gropp	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-06ER25752 09/14/2011 Johnson, Snir	SC-21.1	Center for Programming Models for Scalable Parallel Computing	400
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER25835 03/31/2012 Gropp	SC-21.1	Enhancing the MPI Programming Model for Petascale Systems	153
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-91ER40677 10/31/2012 Liss, Thaler	SC-25	Research on Elementary Particle Physics	2,665
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER15843 12/31/2011 Hartwig	SC-22.12	Chemistry of Complexes With Transition Metal-Heteroatom Bonds: Novel Insertion Chemistry and X-H Bond Activation	175
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER15960 06/14/2014 Dikanov	SC-22.13	Mechanistic Studies of Catalysis in Quinone Electron Transfer Using High-Resolution EPR	200
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER15961 06/14/2012 Bass	SC-22.12	Aqueous Geochemistry at High Pressures and Temperatures	160
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15317 06/30/2011 Bethke	SC-22.12	Field-Constrained Quantitative Model of the Origin of Microbial and Geochemical Zoning in a Confined Fresh-Water Aquifer	134
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15296 06/30/2014 Metcalf	SC-22.13	Energy Conservation During Methanogenesis in Methanosarcina Species	181
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-90ER14146 02/29/2012 Rauchfuss	SC-22.12	Cyanometallates, Their Cages, and Associated Host-Guest Behavior	170
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-07ER64323 11/14/2011 Valocchi	SC-23.1	Modeling Multiscale-Multiphase-Multicomponent Subsurface Reactive Flows Using Advanced Computing	65
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER64568 05/31/2014 Lu	SC-23.1	New Catalytic DNA Biosensors for Radionuclides and Metal Ions	205
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER64533 12/31/2011 Bond	SC-23.1	Optical Properties of Moderately-Absorbing Organic and Mixed Organic/Inorganic Particles at Very High Humidities	107
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER55051 08/14/2012 Eden	SC-24.2	Scaling of Microactivity Plasmas Toward 1UM: Science and Engineering of Spatially-Confined, Low Temperature	213



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ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER54992 05/31/2012 Ruzic	SC-24.2	Study of the Scrape-Off Layer/LLD Interactions and Relevance to NSTX Core Performance	125
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER46669 05/14/2013 Lev	SC-22.21	Atom Chip Microscopy: A Novel Probe for Strongly Correlated Materials	255
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-04ER54765 04/14/2012 Ruzic	SC-24.2	Study of Breakdown/Aring in High Power RF Antennas	55
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-99ER54515 04/14/2014 Ruzic	SC-24.2	Surface Interactions for Controlled Nuclear Fusion	174
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER46549 10/14/2011 Flynn	SC-22.21	LEEM Investigations of Clean Surfaces Driven by Energetic Ion Beams	170
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46471 07/31/2013 Lewis, Moore	SC-22.23	Programming Function via Soft Materials	2,103
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46459 07/31/2013 Cahill	SC-22.21	Ultrafast Thermal Transport at Interfaces	375
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46453 07/31/2013 Cooper	SC-22.22	Quantum Materials at the Nanoscale	2,463
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46443 04/30/2014 Robertson	SC-22.21	Four-Dimensional Characterization of Dislocation-Defect Interactions in Aggressive Environments - A New Approach	140
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46383 05/31/2013 Chiang	SC-22.21	Quantum Physics of Surface-Based Nanoscale Systems	251
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-06ER46285 06/30/2012 Abbamonte	SC-22.21	Resonant Soft X-Ray Scattering Studies of Spontaneous and Engineered Electronic Order in Transition Metal Oxides	223
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46217 08/14/2013 Bellon, Averbach	SC-22.22	Materials for Extreme Irradiation Environments	700
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46260 06/14/2014 Gewirth	SC-22.23	Cathode Catalysis in Hydrogen/Oxygen Fuel Cells: New Catalysts, Mechanism, and Characterization	350
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-01ER45923 04/14/2014 Zuo	SC-22.21	Electron Nanocrystallography of Complex Materials and Processes	158
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER46019 11/30/2012 Granick	SC-22.23	Phospholipid Vesicles in Materials Science	229

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ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64926 01/31/2013 West	SC-23.1	Particle-Resolved Aerosol Representation for the Simulation of the Aerosol Impact on Regional Scales	195
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64939 04/14/2012 Johnson	SC-23.1	Exploratory Research: Mercury Stable Isotopes as Indicators of the Biogeochemical Cycling of Mercury	120
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65039 08/14/2013 Hudson	SC-23.2	The Role of Small RNA in Biomass Deposition and Perenniality in Andropogoneae Feedstocks	322
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65056 08/31/2013 Katzenellenbogen	SC-23.2	Expedited Synthesis of Flourine-18 Labeled Phenols: A Missing Link in PET Radiochemistry	800
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65012 07/31/2012 McFarquhar	SC-23.1	The Development of an Improved Cloud Microphysical Product for Model and Remote Sensing Evaluation Using RACORO	54
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64999 06/14/2013 Metcalf	SC-23.2	Methanogenic Archaea and the Global Carbon Cycle: A System Biology Approach to the Study of Mechanosarcina	810
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64781 07/31/2012 Sanford	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	115
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64770 06/14/2012 McFarquhar	SC-23.1	Improved Representations of Cloud Microphysics for Model and Remote Sensing Evaluation Using Data Collected During ISDAC, TWP-ICE, and RACORO	157
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64791 06/30/2012 Finneran	SC-23.1	Characterizing the combined Roles of Iron and Transverse Mixing on Uranium Bioremediation in Groundwater Using	155
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65103 08/31/2013 Luthey-Schulten	SC-23.2	Computational Modeling of Fluctuations in Energy and Metabolic Pathways of Methanogenic Archaea	500
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-09ER64895 09/14/2012 Nagy	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	257
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-05ER46225 08/14/2014 Morr	SC-22.22	Non-Equilibrium Physics at the Nanoscale	70
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-08ER46538 08/31/2012 Murad	SC-22.23	Observation and Simulations of Lipid Membrane Behavior Under External Stimuli	118
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-10CH20012 09/29/2012 Leigh	SC-23	Construction of Blaze at the University of Illinois at Chicago: A Shared, High-Performance, Visual Computer for Next-Generation	972
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-03ER15381 01/14/2012 Sturchio	SC-22.12	Mineral-Fluid Interactions: Synchrotron Radiation Studies at the Advanced Photon Source	61

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ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-84ER40173 06/30/2012 Keung	SC-25	Studies in Theoretical High Energy Particle Physics	82
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-94ER40865 05/14/2013 Hofman	SC-26.1	Heavy Ion Nuclear Physics Research at the University of Illinois at Chicago	466
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-01ER41195 07/31/2013 Stephanov	SC-26.1	Theoretical Studies of Strongly Interacting Matter	310
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25954 09/14/2012 Nicholls	SC-21.1	High-Order Numerical Methods for the Simulation of Linear and Non-Linear Waves: High-Frequency Radiation and Dynamic	125
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-09ER25895 09/14/2012 Kale	SC-21.1	HPC Colony II	250
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-03ER15476 09/14/2012 Nuzzo, Johnson	SC-22.12	Reactivity & Structural Dynamics of Supported Metal Nanoclusters using Electron Microscopy, In-Situ X-Ray	640
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-87ER13716 08/31/2013 Gennis	SC-22.13	Biochemical and Biophysical Studies of the E Coli Aerobic Respiratory Chain	170
LOYOLA UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-10CH20010 12/31/2012 Sellers	SC-23	Chicago Clean Air, Clean Water Project. Loyola University Chicago: Environmental Monitoring for a Healthy, Sustainable	486
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-06ER46334 08/14/2012 Xiao	SC-22.23	Synthesis and Properties of Nanostructured Exotic Superconductors	162
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-08ER41532 01/31/2014 Piot	SC-25	Nonlinear Dynamics & Phase Space Manipulations of High-Brightness Electron Beams: Theories, Simulations, and	148
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER41695 08/31/2012 Zutshi	SC-25	Design and Prototyping of a High Granularity Scintillator Calorimeter	160
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-03ER46097 09/14/2012 van Veenendaal	SC-22.22	Dynamical and Non-Equilibrium Effects in Higher-Order and Pump and Probe X-Ray Scattering	140
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER65006 09/14/2012 Kimball	SC-23.2	Unique Methodologies for Nano-/Micro-Manufacturing Job Training via Desktop Supercomputer Modeling and Simulation	486
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER65051 08/31/2011 Mirkin	SC-23.2	Clean Energy Storage Conversion and Generation Research	486
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER64940 03/31/2012 Geiger	SC-23.1	Uranium(IV) Interaction with Aqueous/Solid Interface Studied by Nonlinear Optics	150

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64905 09/14/2011 Shekhawat	SC-23.2	Development of Scanning Near-Field Ultrasound Holography as an Add-On Module for AFM Systems	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64815 08/31/2014 Woloschak	SC-23.2	Effects of Low Dose Irradiation on NFkB Signaling Networks and Mitochondria	1,519
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64819 08/31/2011 Marks	SC-23.2	Northwestern University Facility for Clean Catalytic Process Research	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER45945 03/14/2012 Marks	SC-22.21	New Methods for Atomic Structure Determination of Materials	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-84ER45125 10/31/2011 Dutta	SC-22.23	In Situ X-ray Studies of Adsorption, Nucleation, and Self-Assembly at Soft and Hard Surfaces	187
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-88ER45372 03/31/2013 Freeman	SC-22.22	Electronic Structure and Novel Properties in Complex Oxides and Hetero-Interfaces	105
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-00ER45810 05/14/2014 Stupp	SC-22.23	Nanoengineering of Complex Materials	657
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER45721 03/14/2014 Dunand	SC-22.22	Designing Nanoscale Precipitates in Novel Cobalt-based Superalloys to Improve Creep Resistance and Operating Temperature	154
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER45782 08/14/2014 Voorhees	SC-22.23	Four-Dimensional Analysis of the Evolution of Complex Dendritic Microstructures During Coarsening	175
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46248 06/30/2014 Halperin	SC-22.22	Antiferromagnetism and Superconductivity	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46255 08/31/2014 Barnett	SC-22.22	High Performance Nano-Crystalline Oxide Fuel Cell Materials: Defects, Structures, Interfaces, Transport, and	500
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46356 10/31/2012 Kanatzidis	SC-22.23	Chemistry and Properties of Complex Intermetallics from Metallic Fluxes	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46401 07/14/2014 Lauhon	SC-22.22	Functional Imaging of Hybrid Nanostructures: Visualizing Mechanism of Solar Energy Utilization	133
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46433 08/14/2013 Wolverton	SC-22.22	Theory of Hydrogen Storage in Complex Hydrides	260
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46536 12/31/2014 Marks	SC-22.23	Materials Science of Electrodes and Interfaces for High-Performance Organic Photovoltaics	400

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46539 08/31/2014 Olvera de la Cruz	SC-22.23	Electrostatic Driven Self-Assembly Design of Functional Nanostructures	175
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER14999 04/14/2012 Wasielewski	SC-22.13	Approaches to Integrated Photochemical Systems for Solar Energy Conversion	300
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER15184 10/31/2013 Kung	SC-22.12	Molecular Engineering for Selective Catalysis	160
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15522 06/30/2013 Ibers	SC-22.12	Actinide Transition-Metal Chalcogenides and Pnictides	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER15457 05/31/2012 Stair	SC-22.12	Institute for Catalysis in Energy Processes	1,000
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15612 10/31/2013 Seideman	SC-22.11	New Directions in Intense Laser Alignment	100
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-96ER14684 07/14/2014 Lewis	SC-22.13	Light-Driven Charge Transfer in Face-to-Face Donor-Spacer-Acceptor Supramolecular Systems	160
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER13808 05/14/2012 Hupp	SC-22.13	Fundamental Studies of Light-Induced Charge Transfer, Energy Transfer, and Energy Conversion with Supramolecular	240
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-86ER13511 11/14/2013 Marks	SC-22.12	Supported Organometallic Complexes: Surface Chemistry, Spectroscopy, Catalysis, and Homogeneous Models	184
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER16153 05/31/2013 Schatz	SC-22.11	Surface Plasmon Enhanced Chemistry	285
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER16144 04/14/2015 Weiss	SC-22.13	RECOVERY ACT - Chemical Control of Charge Trapping and Charge Transfer Processes at the Organic-Inorganic Interface within Quantum Dot-Organic Complexes	750
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16109 09/14/2012 Hersam	SC-22.11	SISGR - Single Molecule Chemical Imaging at Femtosecond Time Scales	600
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15980 08/31/2012 Rudnicki	SC-22.12	Multiscale Framework for Predicting the Coupling Between Deformation and Fluid Diffusion in Porous Rocks	113
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16030 07/31/2014 Wasielewski	SC-22.13	Argonne-Northwestern Solar Energy Research (ANSER) Center -- EFRC	2,442
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15967 04/30/2014 Hupp	SC-22.12	Coordination-Chemistry-Devised Materials Featuring Nanoscale Porosity and Selective Chemical Separation	215

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER41086 12/31/2011 Segel	SC-26.1	Physics with Rare Isotope Beams	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER41397 08/31/2011 Velasco	SC-25	Development of Beam Instrumentation for CLIC at the CTF3 Facility at CERN	46
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER40344 11/30/2013 Seth	SC-26.1	Strong Interaction Studies with Medium Energy Probes	345
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER26037 08/31/2013 Mehrotra	SC-21.1	Sparse Grid Scenario Generation and Interior Algorithms for Stochastic Optimization in a Parallel Computing Environment	130
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-91ER40684 11/30/2012 Schellman, Petriello	SC-25	High Energy Physics Research	1,137
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER25047 06/30/2014 Nocedal	SC-21.1	Statistical Learning, Stochastic Optimization and Active-Set Methods for Nonlinear Programming	117
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER25848 07/14/2012 Choudhary	SC-21.1	Active Storage with Analytics Capabilities and I/O Runtime System for Petascale Systems	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-07ER25808 11/14/2011 Choudhary	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26008 08/31/2013 Dinda	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	205
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26015 08/31/2013 Choudhary	SC-21.1	Scalable and Power Efficient Data Analytics for Hybrid Exascale Systems	235
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26001 08/31/2013 Choudhary	SC-21.1	Damsel: A Data Model Storage Library for Exascale Science	225
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER25911 08/31/2012 Choudhary	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership-Class Architectures	175
RUSH UNIVERSITY MEDICAL CENTER Chicago, IL	DE-FG02-04CH11192 09/30/2011 Silva, Neff, Miller	SC-23	Regional Center for Advanced Medical Response	0
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-05ER46231 08/31/2012 Ge	SC-22.22	First Principles Based Simulation of Reaction-Induced Phase Transition in Hydrogen Storage and Other Materials	163
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-06ER46291 06/30/2013 Ali	SC-22.22	Understanding Compound Phase Transitions in Heusler Alloy Giant Magnetocaloric Materials: Extension to Multifunctional	169

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WHEATON COLLEGE Wheaton, IL	DE-FG02-08ER55002 07/31/2011 Craig	SC-24.2	Experimental Study of Impulsive Reconnection in a Current Carrying Arcade	133
Total for IL :				44,333

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INDIANA STATE UNIVERSITY Terre Haute, IN	DE-FG02-06ER46304 08/14/2013 Zhang	SC-22.22	Laser-Induced Ultrafast Magnetization in Ferromagnets	220
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-06ER46279 03/14/2012 Pynn	SC-22.21	Development of a New Methods for Studying Nanostructures Using Neutron Scattering	215
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-03ER46093 11/14/2012 Snow	SC-22.21	Polarized 3He in Neutron Scattering	316
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER54865 01/14/2012 Bramley	SC-24.2	Computational Science in Fusion Energy - Center for Simulation of Wave Interactions with Magnetohydrodynamics	73
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-98ER14890 12/14/2013 Hieftje	SC-22.12	Elucidation and Reduction of Interference Effects in Inductively Coupled Plasma Spectrometry	178
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15889 01/31/2015 Jarrold	SC-22.11	Probing the mechanisms of catalytic H2 production from metal oxides and sulfides using cluster models: A combined experimental and theoretical approach	140
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15893 08/14/2013 Mindiola	SC-22.12	Synthesis and Exploratory Catalysis of 3D Metals: Group-Transfer, and Alkane Activation and Functionalization with	155
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-09ER16068 08/14/2012 Flood	SC-22.12	Binding Anions Selectively With Modular Triazolophanes and Releasing Them With Light	125
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-10ER26010 08/31/2013 Lumsdaine	SC-21.1	Compiled MPI: Cost-Effective Exascale Application Development	55
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-08ER25844 07/14/2012 Lumsdaine	SC-21.1	Minimizing System Noise Effects for Extreme-Scale Scientific Simulation Through Function Delegation	106
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-07ER25804 11/14/2010 Bramley	SC-21.1	Center for Technology for Advanced Scientific Component Software, (TASCS)	127
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER25750 09/14/2012 Lumsdaine	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	200
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER41443 09/14/2012 Gottlieb	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	55
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-05ER41374 04/14/2013 Shepherd	SC-26.1	Understanding QCD in the Light Meson Sector (With Emphasis on Mapping Gluonic Excitations)	408
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-92ER40747 08/14/2012 Lee	SC-25	Physics of Beam Cooling, Space Charge Effects, and Beam Manipulation Technologies in High Energy Accelerators	238



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INDIANA UNIVERSITY Bloomington, IN	DE-FG02-88ER40404 12/31/2012 De Souza	SC-26.1	Many-Body Nuclear Dynamics	375
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-87ER40365 03/31/2014 Horowitz, Serot, Szczepaniak	SC-26.1	Theoretical Studies in Nuclear and Hadronic Physics	320
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-91ER40661 10/31/2012 Evans, Kostelecky, Musser, Ogren	SC-25	High Energy Experimental and Theoretical Particle Physics	1,768
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-10ER65085 09/14/2012 Dragoni	SC-23.1	Ecosystem-Atmosphere Exchange Over a Mixed Deciduous Forest in the Midwest: How Does the Carbon Budget Respond to Short-and	457
N UNIVERSITY ASSOCIATION, INC. Valparaiso, IN	DE-FG02-88ER40416 01/15/2012 Manweiler	SC-26.1	Measuring the Spin Structure of the Proton at RHIC	181
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-95ER40934 06/14/2013 Mathews	SC-26.1	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	190
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-00ER41145 07/31/2012 Losecco	SC-25	Research in CP Violation in the B Meson Sector & OJI Task-Optimizing Higgs Discovery Prospects at the Fermilab Tevatron	165
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15880 06/30/2013 Burns	SC-22.12	Topological Structural Relationships, Cation-Cation Interactions, and Properties of U(VI), Np(V), Th(IV) Compounds	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-06ER15830 10/31/2012 Schneider	SC-22.12	Towards Realistic Reaction Environments in Catalysis Simulation	155
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15851 02/14/2013 Bohn	SC-22.12	Molecular Aspects of Transport in Thin Films of Controlled Architecture	279
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-09ER16026 09/14/2013 Albrecht-Schmitt	SC-22.12	New Synthetic Methods and Structure - Property Relationships in Neptunium, Plutonium, and Americum Borates	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10CH20015 12/31/2011 Rulli	SC-23	Innovation Park at Notre Dame, South Bend, IN	558
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FC02-04ER15533 10/31/2013 Carmichael	SC-22.13	Radiation and Photochemistry in the Condensed Phase and at Interfaces	4,795
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER46390 06/14/2014 Zhu	SC-22.23	Multi-Responsive Polyelectrolyte Brush Interfaces: Coupling of Brush Nanostructures and Interfacial Dynamics	74
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER64497 08/31/2011 Bohn	SC-23.2	Three Dimensional Molecular Imaging of Ionic Liquid Processing of Lignocellulosic Materials	0

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NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER46783 08/31/2013 Eskildsen	SC-22.21	Metastable Vortex Lattices - Properties and Applications	176
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER64986 06/14/2013 Burns	SC-23.1	Inorganic Controls on Neptunium Mobility in the Subsurface	203
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-88ER40412 12/31/2011 Scharenberg	SC-26.1	The Experimental Study of the Phase Structure of Hadronic Matter	670
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-03ER15466 09/14/2012 Delgass	SC-22.12	Catalyst Design by Discovery Informatics	780
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-08CH11486 03/31/2011 Hanak, Dimmett	SC-23	Purdue Technology Center of Northwest Indiana Addition	0
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-96ER14641 10/31/2011 Basaran	SC-22.12	Electrohydrodynamic Tip Streaming	415
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER55069 04/14/2015 Allain	SC-24.2	RECOVERY ACT - Harnessing Nanotechnology for Fusion Plasma-Material Interface Research in an In-situ Particle-Surface	750
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54990 05/14/2014 Allain	SC-24.2	Deciphering the PMI Surface Chemistry of Lithium-based PFCs and its Effects on High Performance Plasmas in NSTX	98
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54991 05/14/2014 Hassanein	SC-24.2	Integrated Study of Lithium Expansion and Contamination in the SOL of the Liquid Lithium Divertor of NSTX During Normal and	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER55015 06/14/2012 Allain	SC-24.2	An In-Situ Materials Analysis Particle Probe (MAPP) Diagnostic to Study Particle Density Control and Hydrogenic Fuel Retention in NSTX	180
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54979 12/31/2013 Hassanein	SC-24.2	integrated Prediction and Mitigation Methods of Material Damage and Lifetime Analysis During Plasma Instabilities in	960
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-09ER55024 07/31/2011 Brooks	SC-24.2	Purdue Contribution of Fusion Simulation Program	50
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER46696 05/14/2013 Durbin	SC-22.3	Picosecond X-ray Detector for Synchrotrons	146
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46398 07/14/2013 Koslowski	SC-22.22	Plastic Strain Recovery in Nanocrystalline Materials	84
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46399 07/31/2013 Strachan	SC-22.22	Turnable Hetero-Epitaxial Shape Memory Alloys	200

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PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER41665 04/14/2015 Molnar	SC-26.1	RECOVERY ACT - Viscosity and Equation of State of Hot and Dense QCD Matter	626
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER41681 05/31/2013 Molnar	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	21
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10CH20014 12/31/2011 Nnanna	SC-23	Purdue University Calumet Water Institute	1,944
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-96ER14656 02/14/2013 Zwier	SC-22.11	Isomer-specific spectroscopy and isomerization in aromatic fuels	250
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-00ER15105 05/31/2012 McLucky	SC-22.12	The Dynamics and Thermodynamics of Gaseous Macro-ions	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15391 10/31/2013 Lucht	SC-22.11	Advanced Nonlinear Optical Methods for Quantitative Measurements in Flames	120
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15408 06/30/2014 Ribeiro	SC-22.12	Fundamental Studies on the Kinetics of Oxidation Reactions	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-04ER15526 05/14/2013 Staiger	SC-22.13	Regulation of Actin Filament Ends: The Role of Capping Proteins in Stochastic Dynamics and Organelle Behavior	170
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER15905 08/31/2014 Chapple	SC-22.13	Regulation of Carbon Allocation to Phenylpropanoid Metabolism	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15794 06/30/2012 Abu-Omar	SC-22.12	Oxo Catalyst for the Conversion of Lignocellulosic Biomass	155
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER15752 05/31/2014 Choi	SC-22.13	Construction of High Performance, Low Cost Photoelectrodes with Controlled Polycrystalline Architectures	237
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER16184 07/31/2013 Pushkar	SC-22.13	SISGR - Understanding Electronic and Atomic Requirements in Catalytic Water Oxidation	180
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER16196 10/31/2013 Wasserman	SC-22.11	Towards Linear Scaling Electronic Structure via Partition Density Functional Theory, with Application to Electrochemical Capacitors	120
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER16022 07/14/2012 Pyrak-Nolte	SC-22.12	The Physics of Swarms in Fracture Networks: Integration of Seismic Characterizaion and Controlled	112
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-91ER40681 10/31/2011 Shipsey, Barnes, Gutay, Miller	SC-25	Experimental and Theoretical High Energy Physics Program	2,322

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER26023 08/31/2013 Xiu	SC-21.1	Advanced Dynamically Adaptive Algorithms for Stochastic Simulations on Extreme Scales	153
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-08ER25864 08/14/2012 Pothen	SC-21.1	Combinatorial Scientific Computing and Petascale Simulations Institute	425
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-06ER25789 09/14/2011 Grama	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	79
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64599 07/31/2011 Zhuang	SC-23.1	Quantifying Climate Feedbacks From Abrupt Changes in High-Latitude Trace-Gas Emissions	30
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64702 09/14/2012 Carpita	SC-23.2	Translational Genomics for the Improvement of Switchgrass	400
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64674 08/31/2011 Niyogi	SC-23.1	Utilizing CLASIC Observations and Multiscale Models to Study the Impact of Improved Land Surface Representation on Modeling Cloud - Convection Initiation	0
SOUTHERN INDIANA, UNIV. OF Evansville, IN	DE-FG02-10CH20013 12/31/2011 Gordon	SC-23	Advanced Manufacturing and Engineering Equipment at the University of Southern Indiana	972
TRINE UNIVERSITY Angola, IN	DE-FG02-10CH20016 12/31/2011 Lantz	SC-23	Applied Biomechanical Engineering Graduate Program at Trine University	388
Total for IN :				25,914

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Listing of Active Awards for State (KS)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER15504 12/31/2012 Chu	SC-22.11	Atomic and Molecular Physics in Strong Fields	142
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-05ER15708 03/14/2012 Thompson	SC-22.11	Understanding Nanoscale Confinement Effects in Solvent-Driven Chemical Reactions	137
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-96ER40981 05/31/2014 Sanders	SC-26.1	Research in Heavy-Ion Nuclear Physics at CMS	331
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER41308 04/30/2013 Ralston	SC-25	Research in Theoretical Particle Physics	166
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-07ER54940 07/31/2014 Medvedev	SC-24.2	Studies of HED Plasmas with Self-Generated Magnetic Fields	69
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-10ER65093 08/31/2013 Brunsell	SC-23.1	Assessing Regional Scale Variability in Extreme Value Statistics Under Altered Climate Scenarios	342
D CTR RES INST, INC , UNIV. OF Kansas City, KS	DE-FG02-10CH20018 09/29/2015 Terranova	SC-23	Univesity of Kansas Medical Center Cancer Research Equipment	3,888
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-08ER46504 12/31/2011 Jankowiak	SC-22.21	Excitation Energy Transfer in Natural Photosynthetic Complexes and Chlorophyll Trefoils: Hole-Burning and Single Complex/Trefoil Spectroscopic Studies	15
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-07ER64476 08/31/2011 Kulcsar, Selfa	SC-23.2	The Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities	0
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-10ER46738 08/14/2013 Edgar	SC-22.21	Materials Development for Boron Phosphide Based Neutron Detectors	528
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-86ER13491 02/14/2013 Ben-Itzhak	SC-22.11	Structure and Dynamics of Atomics, Ions, Molecules and Surfaces	2,500
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-06ER15832 08/31/2012 Lin	SC-22.11	Time-Resolved Chemical Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons	145
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-09ER16095 09/14/2012 Ito	SC-22.12	SISGR - Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores	240
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-10ER16202 09/14/2013 Klabunde	SC-22.12	Nanoscale Molecules Under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"	150
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-99ER41093 10/31/2013 Bolton	SC-25	Heavy Quark and Neutrino Physics	723

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RADIATION RESEARCH SOCIETY Lawrence, KS	DE-FG02-10ER65050 08/14/2011 O'Neill	SC-23.2	Sponsorship Of Two Symposia At The Radiation Research Society Annual Meeting-September 2010	10
Total for KS :				9,386

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-84ER40154 01/31/2013 Liu	SC-26.1	Lattice QCD Calculation of Hadronic Spectrum, Nucleon Structure, and Finite Density	193
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-99ER41101 04/30/2014 Korsch	SC-26.1	Fundamental Studies of Hadronic Structure	176
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-96ER40989 07/14/2014 Gardner	SC-26.1	Fundamental Physics with Hadrons and Nuclei, from Quarks to the Cosmos	110
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-07ER46375 07/14/2014 Grulke	SC-22.21	Nanoscale Materials and Architectures for Energy Conversion	699
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-00ER45817 03/31/2012 Menon	SC-22.22	Magnetism in Non-Traditional Materials	118
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-97ER45653 05/14/2014 De Long	SC-22.22	Competing Interactions in Complex Transition Metal Oxides	120
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-08ER41557 04/14/2014 Plaster	SC-26.1	Neutrons and Fundamental Symmetries	105
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-98ER41089 09/14/2012 Brown	SC-25	Contributions to Studies of CP Violation and Hadronic Physics with the Babar Collaboration	107
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-10ER65048 09/14/2013 Dowling	SC-23.2	Atmospheric Science Program at the University of Louisville	340
TRANSYLVANIA UNIVERSITY Lexington, KY	DE-FG02-10CH20001 05/31/2011 Mathews	SC-23	Transylvania University Phase 4A Renovation - Brown Science Center Laboratories and Equipment	631
Total for KY :				2,599

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Listing of Active Awards for State (LA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LOUISIANA BOARD OF REGENTS Baton Rouge, LA	DE-FG02-04ER46136 04/14/2012 Khonsari	SC-22.21	Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources	300
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER25922 09/14/2012 Wan	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Event	41
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FC02-10ER25916 08/14/2012 Jarrell	SC-21.1	Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials	884
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-98ER20310 08/31/2014 Bricker	SC-22.13	Photosystem II: Structure and Assembly	223
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-91ER40617 03/31/2013 Matthews, Metcalf	SC-25	Research in Elementary Particle Physics and Cosmic Ray Physics	786
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-96ER40978 03/14/2014 Blackmon	SC-26.1	Studying Nuclei Far From Stability	195
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-01ER15178 10/31/2013 Poliakoff	SC-22.11	Molecular photoionization studies of nucleobases and correlated systems	155
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10CH20019 09/29/2013 Cherry	SC-23	Renovation of LSU Nuclear Science Building and Development of Nuclear Workforce Program	972
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10ER41707 08/31/2013 Blackmon	SC-26.2	The Structure of Nuclei far From Stability	96
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-07ER46420 07/31/2013 Adams	SC-22.22	Quantum Transport in Thin Film Correlated Insulators	200
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-08ER46492 06/14/2012 Vekhter	SC-22.21	Inhomogeneous Disordered Dirac Fermions: From Heavy Fermion Superconductors to Graphene	10
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER46576 07/31/2014 Spivey	SC-22.11	Computational Catalysis and Atomic-Level Synthesis of Materials: Building Effective Catalysts from First Principles - EFRC	2,285
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER46649 09/14/2012 Plummer	SC-22.21	SISGR - Emerging Functionality in Transition-Metal Compounds Driven by Spatial Confinement	380
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10ER46717 06/30/2013 Draayer	SC-22.21	Ab Initio Nuclear Structure and Reaction Calculations for Rare Isotopes	420
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-10ER46723 07/31/2013 Wobisch	SC-22.21	Searches for New Physics Phenomena in Hadronic Jet Production in the Early ATLAS Data	224



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-99ER41117 04/14/2013 Sawyer	SC-25	Research in High Energy Physics	310
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-08ER25836 05/31/2011 Leangsuksun	SC-21.1	Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond	50
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-05ER15702 11/14/2011 Diebold	SC-22.12	Towards a Molecular-Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory	230
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-96ER14617 05/31/2014 Schmehl	SC-22.13	Energy, Electron Transfer and Photocatalytic Reactions of Visible Light Absorbing Transition Metal Complexes	140
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-08CH11518 08/31/2011 Altiero	SC-23	Materials and Energy Science Clean Room Facility at Tulane University	0
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FC02-06ER64298 02/28/2013 Tornqvist	SC-23.1	Center for Riparian and Coastal Ecosystem Research	1,686
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-10ER46719 07/14/2013 Blake	SC-22.21	Antibodies to Radionuclides: Engineering by Surface Display for Immunosensors	533
Total for LA :				10,120

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RIC & ENVIRONMENTAL RES., INC. Lexington, MA	DE-FG02-90ER61064 10/31/2011 Mlawer, Clough	SC-23.1	Radiative Transfer for Clear and Cloudy Atmospheres: Spectral Modeling and Validation	284
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-99ER45747 11/30/2011 Wang	SC-22.22	Disorder and Interaction in Correlated Electron Systems	91
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-00ER45805 03/14/2014 Ren	SC-22.22	High Performance Bulk Thermoelectric Materials	150
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-09ER46633 09/14/2012 Wang	SC-22.22	SISGR - Focused Research Center in Correlated Electronic Materials	350
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-05ER63995 12/31/2011 Davidovits	SC-23.1	Laboratory Experiments and Instrument Development for the Study of Atmospheric Aerosols	220
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-10ER46755 08/14/2013 Padilla	SC-22.22	Metamaterials as a Platform for the Development of Novel Materials for Energy Applications	100
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-91ER20025 08/31/2012 Roberts	SC-22.13	Osmoregulation in Methanogens	130
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-10CH20017 09/29/2011 Scibilia	SC-23	Infrastructure for Integrated Sciences	1,944
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-93ER14359 06/30/2012 Scott	SC-22.12	High Temperature Chemistry of Aromatic Hydrocarbons	165
BOSTON UNIVERSITY Boston, MA	DE-FG02-95ER14498 11/30/2013 Klein	SC-22.12	Collaborative Research: Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	159
BOSTON UNIVERSITY Boston, MA	DE-FC02-10ER25994 08/31/2013 Appavoo	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	60
BOSTON UNIVERSITY Boston, MA	DE-FC02-06ER41440 09/14/2012 Brower, Rebbi	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	206
BOSTON UNIVERSITY Boston, MA	DE-FG02-91ER40676 01/31/2013 Stone	SC-25	Research in Particle Physics	2,550
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER46643 09/14/2012 Averitt	SC-22.21	SISGR - Multifunctional Materials Research Using Ultrafast Optical Spectroscopy	149
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER64564 06/14/2012 Knyazikhin	SC-23.1	Use of ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes and	28

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER46512 08/31/2014 Castro Neto	SC-22.22	The Physics of Graphene	110
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46316 11/14/2012 Chamon	SC-22.22	Quantum Nanowire Multi-Connections	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46332 12/31/2012 Paiella	SC-22.23	Plasmonic Nanostructures Integrated with Semiconductor Light Emitting Materials for Enhanced Efficiency and Functionality	155
BOSTON UNIVERSITY Boston, MA	DE-FG02-98ER45680 12/14/2013 Smith	SC-22.22	Probing the Origins of Conductivity Transitions in Correlated Solids: Experimental Studies of Electronic	100
BOSTON UNIVERSITY Boston, MA	DE-FG02-85ER45222 12/31/2011 El-Batanouny	SC-22.23	Investigations of Surface Structural, Dynamical and Magnetic Properties of Systems Exhibiting Multiferroicity, Magnetoelectricity, Thermoelectricity.....	173
BOSTON UNIVERSITY Boston, MA	DE-FG02-03ER46037 10/31/2012 Ludwig	SC-22.21	Real-time X-ray Studies of Surface and Thin Film Processes	115
BOSTON UNIVERSITY Boston, MA	DE-FG02-10ER65025 08/14/2013 Segre	SC-23.2	An Open Source Platform for Multi-scale Spatially Distributed Simulations of Microbial Ecosystems	503
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER64797 08/31/2012 Goldstein	SC-23.2	Non-Invasive Detection and Molecular Analysis of Early Low X-Ray Dose Effects to the Lens	263
BOSTON UNIVERSITY Boston, MA	DE-FG02-10ER65107 09/14/2013 Anderson	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	52
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-92ER40706 12/31/2012 Blocker	SC-25	Research in Elementary Particle Physics	796
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-05ER15699 08/14/2013 Kern	SC-22.12	Catalysis, Dynamics and Stability of Enzymes Under Extreme Conditions	170
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-10ER16143 04/14/2015 Thomas	SC-22.12	RECOVERY ACT - Early-Late Heterobimetallic Complexes Linked by Phosphinoamide Ligands: Tuning Redox Potentials and Small	600
BRIGHAM AND WOMEN'S HOSP., INC Boston, MA	DE-FG02-10ER41691 07/31/2013 DeGrado	SC-26.2	Novel Cyclotron-Based Radiometal Production	940
ST. ELIZABETH'S MEDICAL CENTER Boston, MA	DE-FG02-09ER64808 07/31/2012 Hahnfeldt	SC-23.2	Implications of Population Heterogeneity for Low-Dose Risk	347
ST. ELIZABETH'S MEDICAL CENTER Boston, MA	DE-FG02-09ER64814 07/31/2014 Hlatky	SC-23.2	Multi-Scale Systems Biology of Low-Dose Carcinogenesis Risk	1,500

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				FY 2010
CHILDREN'S HOSPITAL CORP. Boston, MA	DE-FG02-08ER64704 09/14/2011 Packard	SC-23.2	In Vitro Assessment of the In Vivo Stability of Cu-64 Radiopharmaceuticals	0
CLARK UNIVERSITY Worcester, MA	DE-FG02-02ER15367 01/14/2012 Kudrolli	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	64
CLARK UNIVERSITY Worcester, MA	DE-FG02-05ER46214 01/31/2011 Agosta	SC-22.22	Novel Superconducting States in Organic and Other Anisotropic Superconductors	0
HARVARD COLLEGE Boston, MA	DE-FG02-05ER64089 12/31/2011 Little	SC-23.2	Bystander Effects of Ionizing Radiation	50
HARVARD COLLEGE Boston, MA	DE-FG02-10ER46751 05/14/2014 Aizenberg	SC-22.23	Actuation of Bioinspired, Adaptive "HAIRS" Powered by Responsive Hydrogels	410
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER41664 04/14/2015 Schwartz	SC-25	RECOVERY ACT - Understanding Jets at the Large Hadron Collider	600
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER41569 08/14/2011 Stubbs	SC-25	Attaining the Photometric Precision Required by Future Dark Energy Projects	0
HARVARD COLLEGE Cambridge, MA	DE-FG02-00ER45852 01/31/2014 Whitesides	SC-22.23	Dynamic Self-Assembly, Emergence, and Complexity	300
HARVARD COLLEGE Cambridge, MA	DE-FG02-01ER45921 03/14/2012 Parks	SC-22.21	Electron Diffraction Determination of Nanoscale Structures	173
HARVARD COLLEGE Cambridge, MA	DE-FG02-06ER46335 05/14/2013 Aziz	SC-22.23	Nanoscale Morphology Evolution under Ion Irradiation	233
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER46422 05/14/2013 Westervelt	SC-22.22	Electron Imaging in Graphene	140
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER46513 08/31/2014 Heller	SC-22.22	Theory of Electron Imaging in Small Devices	120
HARVARD COLLEGE Cambridge, MA	DE-FG02-09ER46646 09/14/2012 Yacoby	SC-22.21	SISGR - Transport and Imaging of Mesoscopic Phenomena in Single and Bilayer Graphene	400
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER64556 05/14/2012 Kuang	SC-23.1	Using ARM Observations to Evaluate and Improve Wave-Convection Interactions in Global Climate Models: An Extended Single Column Modeling Approach	117
HARVARD COLLEGE Cambridge, MA	DE-FG02-91ER40654 10/31/2011 Franklin, Stubbs, Strominger	SC-25	Research in High Energy Physics	2,343

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
HARVARD COLLEGE Cambridge, MA	DE-FC02-06ER25790 09/14/2012 Kaxiras	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	86
HARVARD COLLEGE Cambridge, MA	DE-FG02-09ER16104 09/14/2012 Xie	SC-22.11	SISGR: Room Temperature Single-Molecule Detection and Imaging by Stimulated Emission Microscopy	220
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER65100 08/31/2013 Tziperman	SC-23.1	Improving Interannual Prediction Skill in a Changing Climate Via the Identification of Compensating Coupled Model Errors	360
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER65097 09/14/2012 Munger	SC-23.1	Evaluating the Contribution of Climate Forcing and Forest Dynamics to Accelerating Carbon Sequestration by	305
HARVARD MEDICAL SCHOOL Boston, MA	DE-FG02-02ER63445 11/30/2011 Church	SC-23.2	Microbial Ecology, Proteogenomics and Computational Optima	2,127
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-02ER15316 06/14/2014 Doyle	SC-22.11	Ultracold Molecules: Physics in the Quantum Regime	140
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-88ER13861 03/31/2012 Dalgarno	SC-22.11	Theoretical Investigations of Atomic Collision Physics	135
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-84ER13289 11/30/2012 Friend	SC-22.12	Molecular-Scale Understanding of Selective Oxidative Transformation of Alcohols Promoted by Au and Au-Based Alloys	254
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64511 11/30/2011 Serres	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64517 12/31/2011 Melillo	SC-23.1	Effects of Warming on Tree Species' Recruitment in Deciduous Forests of the Eastern United States	628
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-85ER13361 04/30/2015 Zinder	SC-22.13	Investigations into the Metabolic Diversity of Microorganisms as Part of Microbial Diversity	45
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64648 08/14/2012 Melillo	SC-23.1	Impacts of Climate Change on Biofuels Production	140
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-10ER65099 09/14/2012 Melillo	SC-23.1	Long-Term Soil Warming and Carbon Cycle Feedbacks to the Climate System	508
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64597 07/31/2012 Schlosser	SC-23.1	Quantifying Climate Feedbacks From Abrupt Changes in High-Latitude Trace-Gas Emissions	138
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64592 07/14/2012 Hill	SC-23.1	Collaborative Research: Abrupt Climate Change and the Atlantic Meridional Overturning Circulation - Sensitivity and Non-Linear Response to Arctic/Sub-Arctic	98

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				FY 2010
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER64947 04/14/2015 Webster	SC-23.1	RECOVERY ACT - Methods for Decision Under Technological Change Uncertainty and Risk Assessment for Integrated Assessment of	600
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER41712 10/31/2011 Milner	SC-26.1	Particles and Nuclei International Conference PANIC11 at MIT Young Scientist Support	50
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-90ER45429 10/31/2011 Chen	SC-22.21	Neutron and X-Ray Scattering Studies of the Liquid-Liquid Transition in Supercooled Confined Water and the Slow	365
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-96ER45571 08/31/2013 Ceder	SC-22.22	First Principles Determination of Structure, Thermodynamics, and Transport in Metals and Oxides	173
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46134 11/30/2013 Lee	SC-22.21	A Unified Effort for Crystal Growth, Neutron Scattering, and X-ray Scattering Studies of Novel Correlated Electron	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46149 05/31/2014 Benedek	SC-22.23	Self-Assembling Biological Springs: Force Transducers on the Micron and Nanoscale	200
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER46076 11/30/2012 Lee	SC-22.22	Strongly Correlated Electronic Systems: Local Moments and Conduction Electrons	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-02ER45977 12/31/2013 Chen	SC-22.22	Near-field Thermal Radiation Between Two Objects at Extreme Separations	159
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46636 09/14/2012 Tuller	SC-22.22	SISGR - Chemomechanics of Far-From-Equilibrium Interfaces (COFFEI)	880
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46556 07/31/2013 Moncton	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	293
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46577 07/31/2014 Chen	SC-22.22	Solid-State Solar-Thermal Energy Conversion Center (S3TEC CENTER) -- EFRC	3,280
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46474 06/30/2013 Baldo	SC-22.23	High Efficiency Biomimetic Organic Solar Cells	275
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46488 08/14/2014 Strano	SC-22.23	Self Assembly and Self-Repair of Novel Photosynthetic Reaction Center/Single Walled Carbon Nanotube Complexes for Solar	210
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46454 08/31/2013 Bawendi	SC-22.22	Probing Nanocrystal Electronic Structure and Dynamics in the Limit of Single Nanocrystals	275
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46514 07/31/2014 Ashoori	SC-22.22	Novel Temperature Limited Tunneling Spectroscopy of Quantum Hall Systems	150

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46515 07/31/2014 Kastner	SC-22.22	Measurement of Single Electronic Charging of Semiconductor Nano-Crystal	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46521 08/14/2014 Gedik	SC-22.21	Ultrafast Electronic and Structural Dynamics in Quantum Materials	234
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-99ER54512 10/31/2013 Marmar, Porkolab, Hutchinson	SC-24.2	Alcator C-Mod Fusion Research Program	22,687
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER54458 10/31/2011 Kesner	SC-24.2	Levitated Dipole Experiment	1,190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54525 03/14/2014 Bonoli	SC-24.2	Full-wave Studies of High Harmonic Heating in NSTX with Application to Transport Analysis, Fast Ion Interactions and Antenna Coupling	58
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54563 11/30/2011 Porkolab	SC-24.2	Fast Particle-Wave Interaction and Alfvén Eigenmodes in the JET Tokamak Plasma	126
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER54235 12/14/2012 Porkolab	SC-24.2	Experimental Research in Advanced Physics and Technology	556
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-01ER54648 03/31/2016 Bonoli	SC-24.2	Center for Simulation of Wave-Plasma Interactions	198
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER54700 03/31/2012 Coppi	SC-24.2	Physics of High Energy Plasmas	412
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER54836 05/31/2012 Chen	SC-24.2	Exploration of Plasma Jets Approach to High Energy Density Physics	72
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-04ER54802 02/14/2016 Sugiyama	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54855 01/14/2012 Ramos	SC-24.2	SciDAC - Simulation of Wave Interactions with MHD	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54859 01/14/2012 Sugiyama	SC-24.2	SciDAC - Center for Plasma Edge Simulation	66
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER54891 07/31/2012 Hutchinson	SC-24.2	Interactions of a Flowing Plasma with a Collecting Sphere	84
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46668 09/14/2012 Chiang	SC-22.22	Electrochemically-Driven Phase Transitions in Battery Storage Compounds	196

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54209 11/30/2011 Temkin	SC-24.2	Electron Cyclotron Resonance Heating Technology Development	15
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER54109 11/14/2011 Catto	SC-24.2	Theoretical Research in Advanced Physics and Technology	1,270
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54186 11/14/2012 Minervini	SC-24.2	Fusion Development and Technology	1,445
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER46745 08/31/2013 Kaertner	SC-22.3	Key Laser Technologies for XRay FELs	900
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54966 02/14/2016 Ernst	SC-24.2	Center for the Study of Plasma Microturbulence	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54969 02/14/2016 Ramos	SC-24.2	MIT PSFC Participation in Center for Extended Magnetohydrodynamics Modeling	60
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-09ER55023 07/31/2011 Greenwald	SC-24.2	Fusion Simulation Program	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-93ER61677 08/14/2011 Prinn, Marotzke, Stone	SC-23.1	Coupled Atmosphere-Ocean Models	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER61937 12/14/2013 Prinn, Jacoby	SC-23.1	An Integrated Framework for Climate Change Assessment	1,200
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64516 12/31/2011 Chisholm	SC-23.2	Genomic Structure, Metagenomics, Horizontal Gene Transfer, and Natural Diversity of Prochlorococcus and Vibrio	600
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER64506 08/31/2011 DeLong	SC-23.2	Microbial Gene Expression in the Ocean: Community Gene Function and Dynamics Revealed	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER15839 11/30/2012 Durham	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water and Pressure	87
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15728 06/14/2012 Shao-Horn	SC-22.12	Towards fundamental understanding the mechanisms of oxygen reduction and evolution electrocatalysis on perovskite	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15745 10/31/2011 Nocera	SC-22.13	Hangman Catalysts for Photo- and Photoelectro- Chemical Activation of Water	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER16140 04/14/2015 Juanes	SC-22.12	RECOVERY ACT - Nonequilibrium Physics and Phase-Field Modeling of Multiphase Flow in Porous Media	600



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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-00ER15087 06/30/2014 Nelson	SC-22.11	Nonlinear Materials Spectroscopies Probed by Ultrafast X-Rays	144
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER15004 01/14/2012 Rothman	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	182
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER14988 02/28/2015 Tokmakoff	SC-22.11	Structural Dynamics in Complex Liquids Studied with Multidimensional Vibrational Spectroscopy	251
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER14914 12/14/2013 Green, Jr.	SC-22.11	Computer-Aided Construction of Chemical Kinetic Models	130
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-86ER13564 11/30/2012 Schrock	SC-22.12	The Polymerization of Olefins and Alkynes with New Alkylidene Catalysts	170
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-87ER13671 10/31/2011 Field	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-97ER14760 08/31/2012 Evans	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	358
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER40818 10/31/2013 Milner	SC-26.1	Research in Nuclear Physics	8,810
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-95ER40919 03/31/2013 Chen	SC-25	Theoretical and Computational Investigation of Periodically Focused Intense Charged Particle Beams	271
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER40648 11/30/2012 Temkin	SC-25	17 GHz High Gradient Accelerator Research	527
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER41360 10/31/2013 Milner	SC-25	Laboratory for Nuclear Science - High Energy Physics Program	9,141
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER41420 06/30/2011 Formaggio	SC-26.1	Probing the Absolute Mass Scale of Neutrinos	230
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER41444 03/14/2012 Negele	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	264
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER25943 09/14/2012 Marzouk	SC-21.1	Large Scale Optimization for Bayesian Inference in Complex Systems	149
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER25858 08/15/2012 Willcox	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	150

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER25961 01/31/2013 Marzouk	SC-21.1	RECOVERY ACT - Analysis and Reduction of Complex Networks Under Uncertainty	300
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER25978 04/14/2015 Marzouk	SC-21.1	RECOVERY ACT - Predictive Modeling of Complex Physical Systems: New Tools for Uncertainty Quantification, Statistical Inference, and Experimental Design	629
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER26009 08/31/2013 Amarasinghe	SC-21.1	ZettaBricks: A Language Compiler and Runtime System for Anyscale Computing	613
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER25998 08/31/2013 Solar Lezama	SC-21.1	Software Synthesis for High Productivity Exascale Computing	195
USETTS MEDICAL SCHOOL, UNIV OF Worcester, MA	DE-FG02-10CH20020 07/31/2011 Moore	SC-23	Procurement of State-of-the Art Research Equipment to Support Faculty Members within the RNA Therapeutics Institute, A	291
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-92ER40715 12/31/2012 Willcoq, Brau	SC-25	Experimental Elementary Particle Physics Research	491
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-88ER40415 12/31/2011 Miskimen, Kumar	SC-26.1	Precision Studies of QCD and Electro-Weak Interactions	631
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-87ER13744 05/31/2014 Jackson	SC-22.11	Theory of the Reaction Dynamics of Small Molecules on Metal Surfaces	202
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-03ER15421 08/14/2012 Baskin	SC-22.13	Cellulose and the Control of Growth Anisotropy	165
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-05ER15695 11/14/2011 Barnes	SC-22.12	Chemical Microscopy of Novel Nanostructures and Conjugated Organic Macromolecules	155
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FC02-02ER63446 08/31/2012 Lovley	SC-23.2	Genome-Based Models to Optimize In Situ Bioremediation of Uranium and Harvesting Electrical Energy from Waste Organic	2,160
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46466 08/31/2013 Monson	SC-22.22	Modeling the Self-Assembly of Ordered Nanoporous Materials	185
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46407 07/31/2013 Maroudas	SC-22.22	Surface Engineering by Simultaneous Action of Multiple External Fields	245
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-04ER46126 03/14/2014 Russell	SC-22.21	Nanoparticles Assemblies at Fluid Interfaces	134
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-96ER45612 06/14/2013 Russell	SC-22.23	Interfacial Behavior of Polymers: Using Interfaces to Manipulate Polymers	335

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MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64951 05/14/2013 Lovley	SC-23.1	Coupled in Silico Microbial and Geochemical Reactive Transport Models: Extension to Multi-Organism Communities	331
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64960 05/31/2013 Lovley	SC-23.1	Mechanisms for Electron Transfer Through Pili to Fe(III) Oxide in Geobacter	275
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER65041 07/31/2012 Lovley	SC-23.1	Diagnosis of In Situ Metabolic State and Rates of Microbial Metabolism During In Situ Uranium Bioremediation with Molecular Techniques	471
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64998 06/30/2013 Lovley	SC-23.2	Systems Level Analysis of Function & Adaptive Responses of Methanogenic Consortia	760
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-08ER64700 09/14/2011 Hazen	SC-23.2	Systems Level Engineering of Plant Cell Wall Biosynthesis to Improve Biofuel Feedstock Quality	400
MASSACHUSETTS, UNIVERSITY OF Boston, MA	DE-FG02-10ER64982 09/14/2011 Xia	SC-23.2	Establishment of the Northeast Coastal Watershed Geospatial Data Network	291
MASSACHUSETTS, UNIVERSITY OF Dartmouth, MA	DE-FG02-10ER26022 08/31/2013 Vokkarane	SC-21.1	COMMON: Coordinated Multi-Layer Multi-Domain Optical Network Framework for Large-Scale Science Applications	174
MASSACHUSETTS, UNIVERSITY OF Lowell, MA	DE-FG02-94ER40848 03/31/2014 Chowdhury	SC-26.1	Single-Particle and Collective Phenomena in Nuclei	228
AL BUREAU OF ECONOMIC RESEARCH Cambridge, MA	DE-FG02-08ER64640 08/14/2011 Schlenker	SC-23.1	Statistical Methods in Integrated Assessment Models of Climate Change: Applications to Agriculture and Energy Systems	117
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-09ER64823 08/31/2013 Hanson	SC-23.2	Training Program in Radiochemistry and Radiotracer Development	599
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER64944 05/31/2012 Gu	SC-23.1	Quantitative Characterization of Cell Aggregation/Adhesion as Predictor for Distribution and Transport of Microorganisms in Subsurface Environment	108
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER65058 08/31/2013 Gatley	SC-23.2	Radiotracers for Lipid Signaling Pathways in Biological Systems	773
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER46711 06/30/2013 Lewis	SC-22.22	Magnetostructural Materials	184
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46400 07/14/2013 Karma	SC-22.22	Bridging Atomistic and Continuum Scales in Phase-Field Modeling of Stressed Polycrystalline Materials with	227
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46352 12/14/2013 Bansil, Markiewicz	SC-22.22	Electronic Structure, Spectroscopy, and Correlation Effects in Novel Materials	255

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VALLEY LIFE SCIENCES INSTITUTE Springfield, MA	DE-FG02-10ER65070 09/14/2011 Friedmann	SC-23.2	Pioneer Valley Life Sciences Institute Translational Biomedical Research	388
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-09ER41619 07/31/2013 Benbow	SC-25	Expanding the Discovery Potential of Veritas Via Moonlight Observations	70
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-91ER40635 04/30/2013 Benbow	SC-25	The Application of Two Dimensional Imaging to Very High Energy Gamma Ray Astronomy	720
TOKUTEK, INC. Lexington, MA	DE-FG02-08ER25853 08/31/2011 Farach-Colton	SC-21.1	Efficient Databases for HPC Clusters	572
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER55039 08/14/2012 Hopwood	SC-24.2	Instabilities in Nonthermal Atmospheric Pressure Plasma	217
TUFTS UNIVERSITY Medford, MA	DE-FG02-10ER55070 04/14/2015 Chiesa	SC-24.2	RECOVERY ACT - Superconducting Technology for Magnet Systems in Fusion Machines	715
TUFTS UNIVERSITY Medford, MA	DE-FG02-92ER40702 01/14/2012 Mann, Schneps	SC-25	High Energy Physics at Tufts University	1,003
TUFTS UNIVERSITY Medford, MA	DE-FG02-07ER15900 01/31/2013 Garven	SC-22.12	Fault-Related CO2 Degassing, Geothermics, and Fluid Flow in Southern California Basins: Physiochemical Evidence and Modeling	113
TUFTS UNIVERSITY Medford, MA	DE-FG02-05ER15730 09/14/2014 Flytzani-Stephanopou	SC-22.12	Metal ion sites on oxide supports as catalysts for the water-gas shift and methanol steam reforming reactions	584
TUFTS UNIVERSITY Medford, MA	DE-FG02-06ER15799 06/30/2012 Rybak-Akimova	SC-22.12	Mechanism-Based Design of Biomimetic Green Oxidation Catalysts	155
TUFTS UNIVERSITY Medford, MA	DE-FG02-10ER16170 06/30/2014 Sykes	SC-22.11	A Single-Molecule Approach for Understanding and Utilizing Surface and Subsurface Absorption to Control Chemical	220
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER64780 07/31/2012 Pennell	SC-23.1	Design and Application of Microbial Uranium Reduction Monitoring Tools (MURMoT)	21
WGBH EDUCATIONAL FOUNDATION Boston, MA	DE-FG02-10ER46704 12/31/2011 Apsell	SC-22.23	"Stuff" - The Materials that Shape Our World-Experiential Learning Opportunities	407
ORCESTER POLYTECHNIC INSTITUTE Worcester, MA	DE-FG02-10ER26032 08/31/2013 Walker	SC-21.1	Anderson Acceleration for Fixed-point Iterations	254
Total for MA :				100,875

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ACADIA OPTRONICS, LLC Rockville, MD	DE-FG02-10ER25952 12/14/2012 Wen	SC-21.1	RECOVERY ACT - End-System Network Interface Controller for 100 Gb/s Wide Area Networks	1,499
.S. DEPT. OF - AGR RES SERVICE Beltsville, MD	DE-AI02-10ER30328 06/14/2011 Shafer	SC-27	What's in Your Tool Box? Best Practices in R&D Prioritization, Management, and Evaluation: A Science of Science Policy Workshop, Oct 28-29, 2009	5
RICAN SOC FOR EXPERIMENTAL BIO Bethesda, MD	DE-FG02-10ER16181 07/31/2011 Hake	SC-22.13	FASEB Summer Conferences: Mechanisms in Plant Development, August 15-19, 2010	10
AL EPIDEMIOLOGY INSTITUTE, LTD Rockville, MD	DE-FG02-10ER64954 01/15/2012 Boice	SC-23.2	Epidemiologic Study of One Million American Workers and Military Veterans Exposed to Ionizing Radiation	399
J. CRAIG VENTER INSTITUTE Rockville, MD	DE-FC02-02ER63453 08/31/2011 Venter	SC-23.2	Reconstruction of a Bacterial Genome from DNA Cassettes	5,000
J. CRAIG VENTER INSTITUTE Rockville, MD	DE-FG02-10ER65052 08/14/2012 Garfinkel	SC-23.2	Managing Risks of Synthetic Biology: Assessing the U.S. Regulatory Systems	597
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER25888 08/31/2012 Knio	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	75
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER16094 09/14/2012 Roth	SC-22.12	SISGR - Isotopic Studies of O-O Bond Formation During Water Oxidation	165
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-05ER15727 07/14/2012 Erlebacher	SC-22.12	Engineering Catalytic Nanoporous Metals for Reactions Important to the Hydrogen Economy	120
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14662 11/14/2011 Meyer	SC-22.13	Electron Transfer Dynamics in Efficient Molecular Solar Cells	188
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14616 12/31/2011 Sverjensky	SC-22.12	Predictive Single-Site Protonation and Cation Adsorption Modeling	124
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-91ER14189 12/14/2014 Yarkony	SC-22.11	Theoretical Studies of the Reactions, and the Spectroscopy of Radical Species Relevant to Combustion Reactions and Diagnostics	150
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-89ER14074 12/31/2011 Veblen	SC-22.12	Crystal Chemistry of Toxic Metal Sequestration	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46648 09/14/2012 Hufnagel	SC-22.21	SISGR - In Situ Characterization and Modeling of Formation Reactions Under Extreme Heating Rates in Nanostructured Mutilayer Foils	500
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-10ER46752 08/31/2013 Tovar	SC-22.23	Self-Assembly of PI-Conjugated Peptides In Aqueous Environments Leading To Energy-Transporting Bioelectrical	190

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-86ER53214 12/31/2012 Finkenthal	SC-24.2	Development of Advanced XUV Diagnostics Systems, Components and Devices for Fast Electron Temperature and Particle Density Measurements in Core, Pedestal .....	618
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER55012 02/29/2012 Stutman	SC-24.2	Soft X-Ray Measurements of Transport and MHD Activity in the Core and Edge NSTX Plasma	405
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER46056 01/31/2013 Ma	SC-22.22	Amorphous Structures and Polymorphs of the Phase-Change Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Chagolgenide Glass	150
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46437 08/14/2014 Hemker	SC-22.22	In Situ Characterization of Stress-Coupled Grain Boundary Migration	136
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46465 05/14/2013 Katz	SC-22.23	Charging and Polarization of Organic Semiconductors in Energy-Efficient Circuits and Energy Capture Models: Synthesis, Electronics, and Spectroscopy	274
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER46544 08/31/2014 Broholm	SC-22.21	Institute for Quantum Matter at Johns Hopkins University	1,483
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46558 01/31/2012 Bowen	SC-22.21	Measuring Complementary Electronics Structure Properties of Both Deposited and Gas Phase Clusters by using STM, UPS, and PES	167
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER64643 02/29/2012 Guikema	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	49
LEGIN GROUP, INC. Germantown, MD	DE-AC02-06ER12270 09/29/2011 Clark	SC-29	Administrative and Professional Support Services for the SBIR and STTR Programs	684
LIFE SCIENCES RES. FOUNDATION Baltimore, MD	DE-FG02-08ER15978 08/31/2011 Brown	SC-22.13	Developing Research Capabilities in Energy Biosciences	57
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-07ER64502 09/14/2012 Orban	SC-23.2	Annotation of Novel Enzymatic Functions in Methanogens	0
MARYLAND, UNIV. OF/BALT. CO. Baltimore, MD	DE-FG02-10ER26034 08/31/2013 Draganescu	SC-21.1	Multilevel Techniques for Large-Scale Inverse Problems	131
MARYLAND, UNIVERSITY OF Baltimore, MD	DE-FG02-08ER64569 06/14/2012 Varnai	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	53
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-10ER25991 08/31/2013 Jacob	SC-21.1	Data Movement Dominates: Addressing the Real Exascale Power Problems	197
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25894 08/14/2012 Tits	SC-21.1	Advanced Optimization Techniques for Entropy-Based Moment Closures	256

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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25942 09/14/2012 O'Leary	SC-21.1	Interior-Point Algorithms for Optimization Problems with Many Constraints	101
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25947 09/14/2012 Hollingsworth	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	193
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25932 09/14/2012 Hollingsworth	SC-21.1	Correctness Tools for Petascale Computing	107
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25936 09/14/2012 Hollingsworth	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	75
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25925 09/14/2012 Hollingsworth	SC-21.1	Foundational Tools for Petascale Computing	149
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-07ER25812 02/28/2012 Sussman	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	62
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-06ER25763 12/14/2011 Hollingsworth	SC-21.1	Performance Engineering Research Center (PERC-3)	390
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-04ER25619 06/30/2012 Elman	SC-21.1	Navier-Stokes Solvers and Generalizations for Reacting Flow Problems	243
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41039 06/14/2012 Milchberg	SC-25	Application of Plasma Waveguides to Advanced High Energy Accelerators	562
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41015 10/31/2012 Hadley, Skuja	SC-25	High Energy Accelerator and Colliding Beam User Group	1,746
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40762 11/30/2013 Cohen	SC-26.1	Theoretical Studies in Hadronic and Nuclear Physics	760
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40855 06/30/2013 Kishek, Haber, O'Shea	SC-25	Accelerator Research Studies	982
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40834 01/31/2012 Walters	SC-26.1	Nuclear Structure Research	200
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40802 04/30/2012 Mignerey	SC-26.1	Reaction Mechanism Studies of Heavy-Ion Induced Nuclear Reactions	290
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-98ER14888 10/31/2011 Davis	SC-22.12	Self-Assembled Ionophores: Continuing in New Directions	140

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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16086 09/14/2012 Sita	SC-22.12	SISGR: Catalysts for Energy-Efficient Dinitrogen Activation and N-Atom Transfer Processes	200
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16035 07/31/2014 Rubloff	SC-22.22	Science of Precision Multifunctional Nanostructures for Electrical Energy Storage -- EFRC	1,910
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16100 09/14/2012 Alexander	SC-22.11	SISGR: Investigation of Non-Adiabatic Effects in Reactive and Inelastic Collisions of Molecular Combustion Intermediates	152
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-06ER15761 11/14/2013 Mullin	SC-22.11	Dynamics of Activated Molecules	293
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15883 08/31/2014 Sze	SC-22.13	Endomembrane cation transporters and membrane trafficking	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15916 08/31/2012 Zhu	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	105
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64548 04/30/2012 Nigam	SC-23.1	Atmosphere-Land-Surface Interaction Over the Southern Great Plains: Diagnosis of Mechanisms from SGP ARM Data	175
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER64437 07/14/2012 Kalnay	SC-23.1	Carbon Data Assimilation with a Coupled Ensemble Kalman Filter	195
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER55077 07/14/2013 Oehrlein	SC-24.2	Fundamental Science of Low Temperature Plasma-Biological Material Interactions	110
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER55079 06/30/2012 Dorland	SC-24.2	Gyrokinetic Modeling of Stability, Turbulence and Transport	750
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER54944 07/31/2011 Antonsen	SC-24.2	Interaction of Radiation and Charged Particles in Miniature Plasma Structures	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-08ER54964 02/14/2016 Dorland	SC-24.2	Center for the Study of Plasma Microturbulence	95
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46741 08/14/2013 Drew	SC-22.22	Infrared Hall Effect in Correlated Electronic Materials	145
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46742 03/31/2014 Cumings	SC-22.21	Interfacial Thermal Resistance of Carbon Nanotubes	138
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46753 08/14/2013 Wuttig	SC-22.22	Diblock Copolymer Templated Two-Phase Inorganic Nano-Composites A Platform for Innovative Nano-Science	254



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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-92ER54178 05/31/2012 Kishek, O'Shea	SC-24.2	Physics of Beams at Extreme Intensity for Heavy Ion Inertial Fusion	228
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-95ER54325 07/14/2014 Nusinovich, Granatstein	SC-24.2	Theory and Modeling of High-Power Gyrotrons	140
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER54197 12/31/2013 Dorland	SC-24.2	Maryland Controlled Fusion Research	597
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46688 04/14/2015 Kim	SC-22.21	RECOVERY ACT - Generation, Imaging, and Control of Ultrafast Electrical Currents and Radiation	600
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-00ER54605 11/30/2011 Ellis	SC-24.2	The Maryland Centrifugal Experiment (MCX): Centrifugally Confined Plasmas for Magnetic Fusion	472
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-99ER54516 01/31/2013 Hassam	SC-24.2	Theoretical Considerations for Centrifugally Confined Plasmas	85
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER46607 08/31/2012 Galitskiy	SC-22.22	Theory of Fluctuations in Superconductors	103
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER41710 09/30/2014 Orozco	SC-26.2	Laser Trapping and Cooling Facility for Weak Interaction Experiments with Francium Isotopes at TRIUMF	600
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER41637 08/14/2013 Anlage	SC-25	RECOVERY ACT: Investigation of Microscopic Materials Limitations of Superconducting RF Cavities	583
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER41489 07/31/2013 Nusinovich	SC-25	High Gradient Accelerating Structures	196
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64571 07/14/2012 Li	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study Aerosol Indirect Effects in China	135
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64606 07/31/2012 Fox-Rabinovitz	SC-23.1	Development of Ensemble Neural Network Convection Parameterizations for Climate Models Using ARM Data	182
NATIONAL AERONAUT & SPACE ADM Greenbelt, MD	DE-AI02-09ER64753 05/14/2012 Tao	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	127
NATIONAL AERONAUT & SPACE ADM Greenbelt, MD	DE-AI02-08ER64562 06/14/2012 Marshak, Wiscombe	SC-23.1	Use of the ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes & Aerosol-Cloud Interaction	31
TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-10ER46735 07/14/2013 Gentile	SC-22.21	Polarized 3He in Neutron Scattering	111

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TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-95ER54293 11/14/2011 Reader, Wiese	SC-24.2	Determination of Atomic Data Pertinent to the Fusion Energy Science Program	452
TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-94ER40828 03/31/2012 Gilliam	SC-26.1	Nuclear Data Verification and Standardization	80
NATIONAL INSTITUTES OF HEALTH Bethesda, MD	DE-AI02-08ER64706 08/31/2013 Rosenthal	SC-23.2	Partial Support of 2 NIH Projects (International Cooperative Biodiversity Groups)	250
NATIONAL OCEAN & ATMOS ADMIN Silver Spring, MD	DE-AI02-10ER64949 04/30/2012 Mooney	SC-23.1	Support FY2011 Activities of the Carbon Cycle Interagency Group (CCIWG)	85
NATIONAL OCEAN & ATMOS ADMIN Silver Spring, MD	DE-AI02-99ER62778 04/30/2012 Williamson	SC-23.1	Partial Support for the Federal Committee for Meteorological Services and Supporting Research	20
NAVAL ACADEMY, U. S. Annapolis, MD	DE-AI02-09ER46667 09/14/2012 Trulove	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	112
ROBERTSINTERNATIONAL, LLC Darnestown, MD	DE-AC02-08ER54994 10/22/2011 Roberts	SC-24.2	Consulting Agreement for Administrative, Management and Policy Support to OFES on ITER	22
Total for MD :				29,415

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LABORATORY FOR OCEAN SCIENCES W. Boothbay Harbor, ME	DE-FG02-10ER65023 07/14/2011 Stepanauskas	SC-23.2	Workshop: Redefining Microbial Genomics: the Power of Sequencing Individual Cells	15
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-00ER63001 09/14/2011 Dail	SC-23.1	Economically Viable Harvesting Practices That Increase Carbon Sequestration	0
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-07ER46373 06/30/2014 Pendse	SC-22.21	Thermochemical Conversion of Woody Biomass to Fuels and Chemicals	0
Total for ME :				15

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FG02-10ER16203 10/31/2013 Peralta	SC-22.11	Spin-Forbidden Chemical Reactions in Catalysis from First-Principles	63
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FC02-09ER41584 11/30/2011 Horoi	SC-26.1	Building a Universal Nuclear Energy Density Functional	90
DETROIT MERCY, UNIVERSITY OF Detroit, MI	DE-FG02-09CH11564 03/31/2011 Hanifin	SC-23	Chemistry Building Renovation, University of Detroit Mercy	0
EASTERN MICHIGAN UNIVERSITY Ypsilanti, MI	DE-FG02-10CH20002 04/30/2013 Shen	SC-23	Building Surface Science Capacity to Serve the Automobile Industry in Southeastern Michigan	486
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER64761 06/14/2012 Reguera	SC-23.1	From Nanowires to Biofilms: An Exploration of Novel Mechanisms of Uranium Transformation Mediated by Geobacter Bacteria	65
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER64631 08/14/2012 Buell	SC-23.2	Computational Resources for Biofuel Feedstock Species	100
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER16108 09/14/2012 Dantus	SC-22.11	SISGR - Understanding and Controlling Strong-Field Laser Interactions with Polyatomic Molecules	190
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15822 08/31/2012 Geiger	SC-22.13	Structure, Function, and Regulation of the Enzymes in the Starch Biosynthetic Pathway	160
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15808 07/31/2012 Osteryoung	SC-22.13	Mechanisms of Chloroplast Division in Plants	175
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER15854 02/29/2012 Mantica	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	246
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER15929 03/14/2013 Kirkpatrick	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically Important Fluids and Mineral-Fluid	185
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15228 05/31/2013 Piecuch	SC-22.11	New Single-and Multi-Reference Coupled-Cluster Methods for High Accuracy Calculations of Ground and Excited States	230
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15282 08/14/2012 McCusker	SC-22.13	First-Row Transition Metal-Based Chromophores for Dye-Sensitized Solar Cells: Fundamental Issues and Applications	180
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER14907 07/31/2013 Bruening	SC-22.12	Separations of Stable Isotopic Ions in Homogenous, Highly Charged Nanopores	196
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-03ER41259 05/31/2012 Pratt	SC-26.1	Determining Properties of Matter Created at RHIC	97

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MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER41070 10/31/2013 Westfall	SC-26.1	Study of the QCD Phase Diagram using STAR at RHIC	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER20305 07/31/2013 Benning	SC-22.13	Regulation of Thylakoid Lipid Biosynthesis in Plants	380
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-91ER20021 12/31/2011 Thomashow	SC-22.13	Interdisciplinary Research and Related Training Program in the Plant Sciences	4,000
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64389 05/31/2012 Tiedje	SC-23.2	Integrated Genome-Based Studies of <i>Shewanella</i> Ecophysiology	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64398 03/14/2012 Tiedje	SC-23.1	Metagenomics-Enabled Understanding of the Functions and Activities of Microbial Communities at ERSF Field Research Center	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER62848 08/31/2016 Cole	SC-23.2	The Ribosomal Database Project: Tools and Sequences for Microbial Analysis	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41709 08/31/2013 Tsang	SC-26.2	Determination of the Equation of State of Asymmetric Nuclear Matter	800
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41679 05/31/2015 Maciel-Nunes	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	96
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41553 10/30/2011 York	SC-26.2	Development and Beam Characterization of a Coaxial Resonator Based Single-Gap Gridless Triple-Harmonic Buncher	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41556 06/30/2013 Gade	SC-26.1	Study of Correlation Effects in Nuclei at the Limit of Stability	51
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41546 03/14/2014 Berz	SC-25	Advanced Map Methods for the Description of Particle Beam Dynamics	381
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER41638 06/14/2013 Bieler	SC-25	RECOVERY ACT: SRF-Foundations for Quantitative Microstructural Models to Track Evolution of the Metallurgical State During High Purity Nb Cavity Fabrication	600
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41585 11/30/2011 Brown	SC-26.1	Building a Universal Nuclear Energy Density Functional	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41597 04/30/2019 Glasmacher	SC-26.2	Facility for Rare Isotope Beams	12,000
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46341 08/31/2012 Birge	SC-22.22	Novel Behavior of Ferromagnet/Superconductor Hybrid Systems	162

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MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46309 07/31/2012 Ruan	SC-22.21	Dynamical Nanoscale Crystallography with Femtosecond Resolution	650
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46578 07/31/2014 Morelli	SC-22.21	Revolutionary Materials for Solid State Energy Conversion: A DOE Energy Frontier Research Center -- EFRC	2,125
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46637 09/14/2012 Boehlert	SC-22.22	SISGR - Characterization and Modeling of Deformation Induced Damage in Titanium Alloys	674
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-06ER46294 12/31/2012 Yap	SC-22.22	Hetero-Junctions of Boron Nitride and Carbon Nanotubes: Synthesis and Characterization	0
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-95ER62125 03/31/2012 Burton, Pregitzer	SC-23.1	Impacts of Interacting Elevated Atmospheric CO2 & O3 on the Structure & Functioning of a Northern Forest Ecosystem: Operating and Decommissioning	881
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FC02-06ER64158 11/30/2011 Burton	SC-23.1	Midwestern Regional Center of the National Institute for Climatic Change Research	1,690
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-09ER46674 09/14/2012 Wang	SC-22.22	SISGR - Domain Microstructures and Mechanisms for Large, Reversible and An hysteretic Strain Behaviors in Phase Transforming Ferroelectric Materials	126
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-99ER41107 04/14/2014 Nitz	SC-25	Studies of High Energy Particle Astrophysics	337
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER41331 07/14/2014 Chupp	SC-26.1	Electric Dipole Moment Measurements with Rare Isotopes: The Radon-EDM Experiment	109
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-95ER40899 10/31/2011 Amidei	SC-25	Properties and Interactions of Elementary Particles	3,889
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-06ER25766 12/14/2010 Honeyman	SC-21.1	Petascale of Data Storage Institute	300
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER25979 04/14/2015 Jablonowski	SC-21.1	RECOVERY ACT - Introducing Enabling Computational Tools to the Climate Sciences: Multi-Resolution Climate	777
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15931 06/14/2014 Ragsdale	SC-22.13	Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase	204
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15904 06/30/2014 Ogilvie	SC-22.13	Two Dimensional Electronic Spectroscopies for Probing Electronic Structure and Charge Transfer: Applications to	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15887 07/31/2012 Nielsen	SC-22.13	The Role of Phosphoinositides in Polarized Secretion of Cell Wall Components in Arabidopsis Root Hair Cells	175

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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER15783 06/30/2012 Ewing	SC-22.12	Actinide Incorporation and Radiation Effects in Layered Structures	100
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER15686 08/31/2014 Linic	SC-22.12	Development of Physically Transparent, Predictive Structure-Performance Relationships for Rational Design of Multi-Component Catalytic Materials	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16102 09/14/2012 Wooldridge	SC-22.11	SISGR: The Effects of Oxygenated Fuel Compound Structure on Combustion and Pollutant Reaction Chemistry	151
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16112 09/14/2012 Violi	SC-22.11	SISGR - Developing a Predictive Model for the Chemical Composition of Soot Nanoparticles: Integrating Model and Experiment	198
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER16174 10/31/2013 Dunietz	SC-22.11	Modeling Molecular Electron Transport for Thermal and Photo Energy Conversion	203
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15997 08/14/2014 Sanford	SC-22.12	Catalytic Control of Site Selectivity in Catalytic C H Arylation and Alkylation Reactions	130
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46683 04/14/2015 Daly	SC-22.22	RECOVERY ACT - Deformation and Failure Mechanisms of Shape Memory Alloys	600
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46757 09/14/2014 Hart	SC-22.23	Understanding and Controlling Nanoscale Crystal Growth using Mechanical Forces	149
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46761 08/31/2013 Matzger	SC-22.23	Symmetry Breaking for the Synthesis of Nanostructured Porous Materials	255
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46762 04/14/2014 Sangi Reddy	SC-22.21	Study of Energy Transport at the Nanoscale	136
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER64446 07/31/2011 Rood	SC-23.1	Subgrid-Scale Mixing in Climate Models: A Novel Look at Diffusion, Accuracy, Stability and Climate Sensitivity	251
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER62370 12/14/2011 Penner	SC-23.1	Cloud/Aerosol Parameterizations: Application and Improvement of General Circulation Models	160
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-01ER63248 09/14/2012 Penner	SC-23.1	Development of an Atmospheric Climate Model with Self-Adapting Grid and Physics	278
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-93ER61666 08/14/2012 Zak	SC-23.1	Ecosystem Response to Elevated Tropospheric Carbon Dioxide (CO2) and Ozone (O3) is Regulated by Plant-Microbe Interactions in Soil	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-09ER55050 08/14/2014 Kushner	SC-24.2	Predictive Control of Plasma Kinetics: Multi-Phase and Bounded Systems	1,908

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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55060 08/14/2012 Kushner	SC-24.2	Plasmas in Multiphase Media: Bubble Enhanced Discharge in Liquids and Plasma/Liquid Phase Boundaries	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55047 08/14/2012 Lau	SC-24.2	Theoretical and Experimental Studies of the Magneto-Rayleigh-Taylor Instabilities	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46273 04/30/2012 Clarke	SC-22.21	Structure and Dynamics at Interfaces	166
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46339 05/14/2013 Goldman	SC-22.21	Electronic States and Transport in Semiconductor Nanostructures	155
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46412 08/14/2014 Green	SC-22.23	Brush-Coated Nanoparticle Polymer Thin Films: structure-mechanical-optical properties	230
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46416 06/30/2013 Pan	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures	175
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER46525 08/31/2014 Was	SC-22.22	Localized Deformation and Intergranular Fracture of Irradiated Alloys Under Extreme Environmental Conditions	303
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER41615 08/31/2011 Campbell	SC-25	Proposal to Participate in J-Parc KL Experiment	550
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER45656 04/30/2014 Ewing	SC-22.22	Response of Simple, Model Systems to Extreme Conditions	200
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER46172 12/31/2011 Mirecki-Millunchick	SC-22.22	Atomic Surface Structure of Compound Semiconductor Nanowires	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER46000 11/30/2011 Glotzer	SC-22.23	Simulation of Self-Assembly of Tethered Nanoparticle Shape Amphiphiles	302
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER64803 07/31/2012 Hayes	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	297
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER64994 06/30/2013 Zak	SC-23.2	Atmospheric Nitrogen Deposition and Microbial Mechanisms Enhancing Soil Carbon Storage	449
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-04ER15593 10/31/2013 Suits	SC-22.11	Universal and State-Resolved Imaging Studies of Chemical Dynamics	160
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-09ER16120 09/14/2012 Verani	SC-22.13	SISGR: A Concerted Synthetic, Spectroscopic, and Computational Approach Towards Water Splitting by Heterometallic Complexes in Solution and on Surfaces	440



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-92ER40713 04/30/2014 Cormier	SC-26.1	Relativistic Heavy Ion Research	1,263
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-96ER41005 02/29/2012 Karchin	SC-25	Particle Physics Research Program	478
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-99ER45772 12/31/2011 Burns	SC-22.21	X-ray and Transport Studies of Highly Correlated Systems	100
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-92ER14299 06/14/2014 Berrah	SC-22.11	Probing Complexity Using the LCLS and the ALS	260
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-04ER41320 05/14/2013 Wuosmaa	SC-26.1	Study of Exotic Nuclei With Nucleon Transfer Reactions	360
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-10ER64974 12/31/2012 Patten	SC-23.2	Green Manufacturing: Environmentally Benign and Energy Conscious Program at Western Michigan University	972
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-10ER65069 08/31/2012 Koretsky	SC-23.1	Development of Surface Complexation Models of Cr(VI) Adsorption on Soils, Sediments and Model Mixtures of Kaolinite,	149
Total for MI :				44,968

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Listing of Active Awards for State (MN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MINNESOTA, UNIVERSITY OF Duluth, MN	DE-FG02-98ER41087 05/31/2013 Hiller	SC-25	Nonperturbative Analysis of Field Theories Quantized on the Light Cone	61
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-94ER40823 10/31/2013 Rusack, Olive	SC-25	Experimental and Theoretical High Energy Physics	1,802
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-87ER40328 01/31/2014 Kapusta, Qian, Heger	SC-26.1	Research in Theoretical Nuclear Physics	430
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-10ER26020 08/31/2013 Karypis	SC-21.1	Enabling Scientific Discovery in Exascale Simulations	149
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER25880 08/31/2012 Luskin	SC-21.1	Predictive Simulation and Design of Materials by Quasicontinuum and Accelerated Dynamics Methods	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-08ER25841 06/14/2012 Saad	SC-21.1	Robust Parallel Iterative Solvers for Linear and Least-Squares Systems	135
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER16087 09/14/2012 Gagliardi	SC-22.12	Multiconfigurational Quantum Chemical Study of Molecules and Ions Containing Actinides and Lanthanides	200
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER15670 08/31/2014 Glazebrook	SC-22.13	Effects of Plant Cell Wall Alterations on Plant Disease Susceptibility	144
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15886 07/31/2013 Ward	SC-22.13	Functional Analysis of Plant Sucrose Transporters	160
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15913 08/31/2014 Gladfelter	SC-22.13	Molecular Design of Zinc-Oxide Nanoparticle-Dye Dyads and Triads	265
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-88ER13878 12/31/2011 Schmidt	SC-22.12	Biofuels from Biomass by Catalytic Autothermal Reforming	155
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-86ER13579 11/30/2014 Truhlar	SC-22.11	Variational Transition State Theory	135
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-03ER15455 08/31/2014 Que	SC-22.12	Bio-inspired Iron Catalysts for Hydrocarbon Oxidations	165
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-04ER15500 11/30/2012 Kohlstedt	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water, and Pressure	369
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-02ER46004 08/31/2014 Goldman	SC-22.22	Tunneling and Transport in Nanowires	140

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-09ER41618 03/14/2012 Heger	SC-26.1	Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	130
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-08ER41572 08/14/2011 Rusack	SC-25	Advanced Fiber Optic Systems for HEP Experiments	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-07ER41471 10/31/2011 Marshak	SC-25	Collaborative Research and Development in Neutrino Physics	-9,650
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-10ER41676 05/31/2015 Heger	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	40
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER46415 08/31/2013 Kumar	SC-22.23	Hydrodynamic Self-Assembly of Topographical Patterns on Soft Materials	80
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER46275 03/14/2012 Leighton	SC-22.21	A Global Understanding of Magnetic Phase Separation in Doped Cobaltites	404
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER55040 08/14/2012 Kortshagen	SC-24.2	Charging and Heating Dynamics of Nanoparticles in Nonthermal Plasmas	67
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER63997 12/31/2011 McMurry	SC-23.1	Growth Rates of Freshly Nucleated Particles	250
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER64456 07/31/2015 Reich	SC-23.1	Climate Change Impacts at the Temperate-Boreal Ecotone: Interactions Between Warming and Precipitation	687
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER46640 09/14/2012 Zudov	SC-22.22	SISGR - Emergent Phenomena in Quantum Hall Systems Far From Equilibrium	130
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-10ER64943 04/14/2015 Schilling	SC-23.2	RECOVERY ACT - Consolidating Biomass Pretreatment with Saccharification by Resolving the Spatial Control Mechanisms	760
Total for MN :				-2,792

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
CROWDER COLLEGE Neosho, MO	DE-FG02-05CH11289 06/30/2012 Shannon	SC-23	Missouri Alternative & Renewable Energy Technology (MARET) Center	0
DONALD DANFORTH PLNT SCI CTR St. Louis, MO	DE-FG02-09ER16029 07/31/2014 Sayre	SC-22.13	Center for Advanced Biofuels Systems -- EFRC	3,000
SITY OF SCIENCE AND TECHNOLOGY Rolla, MO	DE-FG02-08ER46518 08/31/2012 Switzer	SC-22.23	Epitaxial Electrodeposition of Metal Oxide Thin Films and Superlattices for Energy Conversion and Storage	175
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-02ER15309 05/31/2014 Stacey	SC-22.13	Plant Response to LCO/CO Signals	180
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-87ER13713 08/31/2012 Wall	SC-22.13	Genetics and Molecular Biology of Hydrogen Metabolism in the Sulfate-reducing Bacteria	170
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-88ER13880 07/14/2014 Sharp	SC-22.12	Late Transition Metal M-OR Chemistry and d6 Metal Complex Photoeliminations	150
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER15958 12/31/2011 Appold	SC-22.12	Evaluation of the Origin and Hydrocarbon Transport Capabilities of Solitary Waves in Fault Conduits with Visco-Elastic Rheologies	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER41644 09/30/2012 Jurisson	SC-26.2	Alternative Isotope Production Techniques for High Specific Activity Radionuclides	500
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-00ER45818 11/30/2012 Satpathy	SC-22.22	Fundamental Studies of Complex Oxides and Their Interfaces	130
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46203 05/31/2014 Vignale	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46213 12/31/2011 Ullrich	SC-22.22	Charge and Spin Dynamics in Bulk and Heterostructured Dilute Magnetic Semiconductors	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER46411 08/14/2013 Pfeifer	SC-22.23	New Pathways and Metrics for Enhanced, Reversible Hydrogen Storage in Boron-Doped Carbon Nanospaces	320
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER64396 03/31/2012 Wall	SC-23.1	Geochemical, Genetic, and Community Controls on Mercury Methylation	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER65015 07/14/2011 Jurisson	SC-23.2	Radiochemistry Student, Postdoc and Invited Speaker Support for New Directions in Isotope Production, Nuclear Forensics	10
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER65040 09/14/2013 Stacey	SC-23.2	Systems View of Root Hair Response to Abiotic Stress	312

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-09ER64825 08/31/2013 Jurisson	SC-23.2	Research Projects for Interrogations of Biological Systems: Training for the Development of Novel Radiotracers	527
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER64691 09/14/2012 Wall	SC-23.2	Pathway of Fermentative Hydrogen Production by Sulfate-Reducing Bacteria	235
MISSOURI, UNIVERSITY OF Kansas City, MO	DE-FG02-84ER45170 10/31/2011 Ching	SC-22.21	Theoretical Studies on the Electronics Structures and Properties of Complex Ceramic Crystals and Novel Materials	0
CLEAR MEDICINE SOLUTIONS, INC. St. Louis, MO	DE-AD01-07NE24326 12/28/2011 Brown	SC-26.2	Purchase of Irradiated Strontium-82 Targets	444
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-87ER40316 12/31/2013 Sobotka	SC-26.1	Studies of Complex Nuclear Decay in Heavy-Ion Reactions	272
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-88ER40406 11/30/2011 Sarantites	SC-26.1	Investigations of Nuclear Structure and Nuclear Reactions	371
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-91ER40628 03/31/2014 Bender, Ogilvie, Bernard	SC-25	Studies in Quantum Field Theory and Astroparticle Physics	814
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER41375 05/31/2014 Alford	SC-26.1	Signatures of Color Superconductivity in High-Density Quark Matter	120
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-99ER20350 08/31/2012 Pakrasi	SC-22.13	Novel Factors in the Thylakoid Lumen that Regulate Photoprotection and Repair of the Photosynthetic Apparatus in Cyanobacteria	175
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15902 08/31/2013 Blankenship	SC-22.13	The Fmo Antenna Complex From Green Photosynthetic Bacteria	191
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER15661 05/14/2014 Holten, Kirmaier	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	145
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16116 09/14/2012 Holten	SC-22.13	SISGR: Controlling Electron Transfer Pathways in Photosynthetic Reaction Centers	194
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16045 07/31/2014 Blankenship	SC-22.13	Photosynthetic Antenna Research Center (PARC) -- EFRC	3,375
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41673 05/31/2015 Alford	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot Dense Matter	30
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41708 08/31/2013 Sobotka	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics & the Development of a	279

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41643 09/30/2011 Welch	SC-26.2	Improved Production and Separation Technologies for Non-Standard PET Radionuclides	420
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER46256 08/31/2014 Conradi	SC-22.22	In Situ NMR to Understand Hydrogen Storage Chemistry	190
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64681 09/14/2011 Tai	SC-23.2	Detector Technologies for Sub-500UM High-Sensitivity PET Imaging Via a Novel PET Insert Approach	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64671 09/14/2011 Welch	SC-23.2	Novel Strategies for Ultrahigh Specific Activity Targeted Nanoparticles	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64694 09/14/2012 Pakrasi	SC-23.2	Development of Cyanothecae as a New Model Organism for Biological Hydrogen Production	600
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER64820 08/31/2013 Welch	SC-23.2	Integrated Research Training Program of Excellence in Radiochemistry	527
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER65061 08/31/2013 Tai	SC-23.2	Development of Simultaneous Beta-and-Coincidence-Gamma Images for Plant Imaging Research	801
Total for MO :				14,867

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Listing of Active Awards for State (MS)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER64459 08/31/2012 Peng	SC-23.2	Identification of Cell Wall Synthesis Regulatory Genes Controlling Biomass Characteristics and Yield in Rice (Oryza	0
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-06ER46315 08/31/2012 Clay	SC-22.22	Charge Frustration, Spin Singlets and Superconductivity in the 1/4-filled Band Paired-Electron Crystal	140
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41459 11/14/2012 Afanasjevs	SC-26.1	Nuclei at Extreme Conditions: A Relativistic Study	74
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41528 08/31/2013 Dutta	SC-26.1	Precision Measurements at Medium Energy	277
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-04ER15514 01/31/2012 Sygula	SC-22.12	Polynuclear Aromatic Hydrocarbons with Curved Surfaces: Buckybowls	135
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-95ER40939 04/30/2013 Ma	SC-26.1	Experimental Nuclear Structure Studies	168
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-96ER41006 06/30/2014 Winger	SC-26.1	Nuclear Structure Studies of Exotic Nuclei with Radioactive Ion Beams	77
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-91ER40622 04/30/2013 Cremaldi	SC-25	Experimental Study of Electroweak and Heavy Flavor Physics	532
Total for MS :				1,403

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Listing of Active Awards for State (MT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-08ER46527 08/31/2012 Cunningham	SC-22.21	Environmental Responses to Geologic CO2 Sequestrations	530
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER46477 08/31/2014 Douglas	SC-22.23	Multicomponent Protein Cage Architectures for Photocatalysis	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER64366 03/14/2012 Peyton	SC-23.1	Subsurface Uranium Fate & Transport: Integrated Experiments & Modeling of Coupled Biogeochemical Mechanisms of	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-10ER16194 09/14/2013 Broderick	SC-22.13	Role of HydF in Hydrogenase Maturation	185
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-04ER15563 05/31/2012 Peters	SC-22.13	Novel Microbial Based Enzymatic CO2 Fixation/Carboxylation Mechanisms	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-09ER64758 05/14/2012 Gerlach	SC-23.1	Microbial Activity and Precipitation at Solution-Solution Mixing Zones in Porous Media - Environmental Remediation Science Program	108
MONTANA, UNIVERSITY OF Missoula, MT	DE-FG02-03ER54699 03/31/2013 Ware	SC-24.2	High Beta Stellarator Studies and Cross Phase Dynamics in Turbulent Transport	65
Total for MT :				888



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BUNCOMBE, COUNTY OF Asheville, NC	DE-FG02-10CH20024 09/16/2011 Creighton	SC-23	Buncombe County Wastewater Pre-Treatment and Landfill Gas to Energy Project	486
DAVIDSON COLLEGE Davidson, NC	DE-FG02-04ER25590 10/31/2010 Chartier	SC-21.1	Numerical Methods for Forward and Inverse Problems in Discontinuous Media	51
DUKE UNIVERSITY Durham, NC	DE-FG02-03ER41231 12/14/2013 Gao	SC-26.1	Medium Energy Physics at Duke University	448
DUKE UNIVERSITY Durham, NC	DE-FG02-97ER41033 02/29/2012 Howell	SC-26.1	Studies of Nuclear Structure Using Neutrons and Charged Particles	3,500
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41367 03/14/2014 Mueller	SC-26.1	Nuclear Physics at Extreme Energy Density	370
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41368 03/14/2014 Springer	SC-26.1	Lattice and Effective Field Theory Studies of Quantum Chromodynamics	365
DUKE UNIVERSITY Durham, NC	DE-FG02-91ER40665 11/30/2012 Kotwal	SC-25	Research in High Energy Physics at Duke University	1,330
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER16074 08/31/2012 Therien	SC-22.13	Organic, Nanoscale, and Self-Assembled Structures Relevant to Solar Energy Conversion	155
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46602 08/14/2012 Thomas	SC-22.22	Simulating Strongly Correlated Electrons with a Strongly Interacting Fermi Gas	153
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46606 05/31/2012 Finkelstein	SC-22.22	Symmetries, Interactions and Correlation Effects in Carbon Nanotubes	150
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER41683 05/31/2013 Mueller	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	48
DUKE UNIVERSITY Durham, NC	DE-FC02-06ER64156 11/30/2011 Jackson	SC-23.1	Southeastern Regional Center of the National Institute for Climatic Change Research	1,689
DUKE UNIVERSITY Durham, NC	DE-FG02-06ER64273 07/14/2011 Corliss, Hegerl	SC-23.1	Reducing Uncertainties in Future Climate Projections by Quantifying Human Contributions to 20th Century Climate Change	0
DUKE UNIVERSITY Durham, NC	DE-FG02-95ER62083 07/31/2012 Oren, Schlesinger	SC-23.1	Duke Forest FACE - Forest-Atmosphere Carbon Transfer and Storage (FACTS-I)	1,068
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER46772 08/31/2013 Baranger	SC-22.22	Quantum Phases of Nanowires: Quantum Monte Carlo Approaches	145

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64961 05/14/2013 Howell	SC-23.2	Radionuclide Imaging Technologies for Biological Systems	47
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64945 05/31/2012 Hsu-Kim	SC-23.1	Occurrence and Stabilization of Colloidal and Nanoparticulate Mercury Sulfides	150
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64931 01/31/2013 Jirtle	SC-23.2	Epigenomic Adaptation to Low Dose Radiation	333
ENVIRONMENTAL PROTECT AGENCY Research Triangle Pk, NC	DE-AI02-10ER65044 07/31/2013 Mathur	SC-23.1	Evaluation of the Interactions Among Tropospheric Aerosol Loading, Radiative Balance, Clouds, and Precipitation	298
NTY ECONOMIC DEVELOPMENT CORP. Williamston, NC	DE-FG02-10ER64977 07/31/2011 Rehbock	SC-23.2	Martin County Microfiber Hydrogen Fuel Cell Technology Development	972
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-10ER41716 08/31/2013 Crowe	SC-26.1	A Proposal to Measure the Space Star Cross Section in Neutron - Deuteron Breakup in a Recoil Geometry Setup	106
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-96ER54385 01/31/2012 Jones	SC-24.2	Precision Characterization of Gyrotron Window Materials	74
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-09ER46655 09/14/2012 Henderson	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	181
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64508 12/14/2011 Meskhidze	SC-23.1	Effect and Terrestrial and Marine Organic Aerosol on Regional and Global Climate: Model Development, Application, and	213
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64510 12/31/2011 Dunn	SC-23.1	Impacts of Elevated Temperature on Ant Species, Communities and Ecological Roles at Two Temperate Forests in Eastern North America	694
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER64448 07/31/2012 Lackmann	SC-23.1	High-Resolution Modeling to Assess Tropical Cyclone Activity in Future Climate Regimes	49
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-10ER41677 05/31/2015 McLaughlin	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot and Dense Matter	95
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-97ER45624 11/30/2011 Whitten	SC-22.23	Theoretical Studies of Surface Reactions on Metals and Electronic Materials	143
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45685 02/28/2013 Bernholc	SC-22.22	Theoretical Investigations of Nano Bio Structures	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45737 06/14/2013 Ade	SC-22.23	Fundamental Science of High Open Circuit Voltage Excitonic Solar Cells	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-96ER14632 05/14/2014 Lindsey	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	205
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER15354 09/14/2014 Smirnov	SC-22.13	Nanotube-Supported Phospholipid Bilayers	150
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER15914 08/31/2012 Maggard	SC-22.13	Molecular to Microstructural Designs in Heterometallic Solids for Visible-Light Photocatalysts	150
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-97ER41042 03/31/2012 Huffman	SC-26.1	Nuclear Structure Research at the Triangle Universities Nuclear Laboratory	691
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER41216 07/14/2013 McLaughlin	SC-26.1	Supernovae and Black Hole Accretion Disks: Weak Interactions and Element Synthesis	135
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-03ER41260 07/14/2012 Schaefer	SC-26.1	Nuclear Theory at North Carolina State University	248
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER25837 05/31/2011 Mueller	SC-21.1	Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond	50
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-07ER25809 11/14/2011 Vouk	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	177
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-10ER26002 08/31/2013 Samatova	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64687 09/14/2012 Kelly	SC-23.2	Biohydrogenogenesis in the Thermotogales	543
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER41675 05/31/2015 Engel	SC-26.1	Collaboration: Neutrinos and Nucleosynthesis in Hot and Dense Matter	30
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-09ER41589 11/30/2011 Engel	SC-26.1	Universal Nuclear Energy Density Functional	83
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER46216 08/14/2012 Tsui	SC-22.22	Structure and Magnetism in Novel Group IV Element-Based Magnetic Materials	161
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41019 01/14/2012 Engel	SC-26.1	Nuclear Theory with Applications to Astrophysics and Particle Physics	110
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41041 03/31/2012 Wilkerson	SC-26.1	Studies of Nuclear Processes	1,094

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER41445 09/14/2011 Fowler	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	122
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER41418 06/30/2012 Ng	SC-25	Theoretical Research in Cosmology, High-Energy Physics and String Theory at UNC-CH	173
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER25974 03/14/2013 Minion	SC-21.1	Higher-Order, Space-Time Adaptive Finite Volume Methods: Algorithms, Analysis and Applications	166
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER26016 08/31/2013 Baldine	SC-21.1	Orchestrating Distributed Resource Ensembles for Petascale Science	169
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER25764 12/14/2012 Fowler	SC-21.1	Performance Engineering Research Center (PERC-3)	882
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-09ER16099 09/14/2012 Miller	SC-22.12	SISGR - Multiscale Modeling of Multiphase Flow, Transport, and Reactions in Porous Medium Systems	200
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER15788 05/14/2012 Meyer, Papanikolas	SC-22.13	Metal-to-Ligand Charge Transfer Excited States at Interfaces and in Rigid Media: Applications in Energy Conversion	190
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15671 06/14/2013 Jones	SC-22.13	Sugar Sensing in Arabidopsis via AtRGS1	165
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER14776 10/31/2011 Baer	SC-22.11	Threshold Photoelectron Photoion Coincidence (TPEPICO) studies: The road to +/-0.1 kJ/mol Thermochemistry	155
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10CH20000 06/30/2011 Poole	SC-23	Collaborative Initiative in Biomedical Imaging to Study Complex Diseases - FY 2009	924
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15630 02/29/2012 Gagne	SC-22.12	Oxidative Addition at Anomeric Centers in the Pursuit of Value-Added Fine Chemical Feedstocks From Cardboard and Potatoes	145
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-05ER25678 08/31/2012 Cai	SC-21.1	Numerical Methods of Computational Electromagnetics for Complex Inhomogeneous Systems	209
YANCEY COUNTY Burnsville, NC	DE-FG02-08CH11534 08/30/2011 Lawhern	SC-23	Capital Investment to Fund Equipment Purchases and Facility Modifications to Create a Sustainable Future for the Energy	0
Total for NC :				21,090

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 Listing of Active Awards for State (ND)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-96ER14645 05/14/2014 Hershberger	SC-22.11	Kinetics and Product Channel Studies in Combustion Chemistry	209
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-08ER15987 08/14/2011 Burghaus	SC-22.12	Characterization of Fundamental Catalytic Properties of WS <sub>2</sub> /MoS <sub>2</sub> Nanotubes and Nanoclusters for Desulphurization	120
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-09ER64919 09/28/2014 Boudjouk	SC-23.2	Advancing Science through Computation at NDSU	4,860
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER46292 07/14/2012 Seames	SC-22.21	The North Dakota DOE EPSCoR IIP Phase 2: Performance Impacts of Impurities in Clean Coal Systems Equipped with Carbon Capture	50
Total for ND :				5,239

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CREIGHTON UNIVERSITY Omaha, NE	DE-FG02-96ER40991 06/30/2014 Cherney	SC-26.1	A Study of Ultra-Relativistic Heavy Ion Collisions	428
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER64946 06/30/2012 Weber	SC-23.1	Viral Infection of Subsurface Microorganisms and Metal/Radionuclide Transport	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-05ER15663 02/14/2013 Umstadter	SC-22.11	Laser Produced Coherent X-Ray Sources	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER16189 08/31/2014 Mackenzie	SC-22.13	MSH1: a novel inter-organellar environmental response mechanism in higher plants	149
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER16137 04/14/2015 Centurion	SC-22.11	RECOVERY ACT - Ultrafast Electron Diffraction from Aligned Molecules	600
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-96ER14646 05/31/2014 Starace	SC-22.11	Dynamics of Few-Body Atomic Processes	130
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-00ER15044 04/30/2013 Spreitzer	SC-22.13	Role of the Rubisco Small Subunit	165
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-03ER63639 09/14/2012 Verma	SC-23.1	Carbon Sequestration in Dryland and Irrigated Agroecosystems: Quantification at Different Scales for Improved	99
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-08ER55000 07/31/2012 Shadwick	SC-24.2	Wavebreaking and Particle Trapping in Collisionless Plasmas	186
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER46722 06/30/2013 Gruverman	SC-22.21	Nanoscale Studies of Pyroelectric and Thermoelectric Phenomena	570
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER46767 07/31/2013 Gruverman	SC-22.21	Nanoscale Resistive Switching Behavior of Ferrelectric and Multiferroic Tunnel Junctions	250
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER46152 06/18/2013 Sellmyer	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	115
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-08ER46498 06/14/2012 Ducharme	SC-22.21	Rational Design of Molecular Ferroelectric Materials and Nanostructures	15
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46621 08/14/2012 Shield	SC-22.21	Phase Transformations in Confined Nanosystems	15
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46622 08/14/2012 Ramamurthy	SC-22.21	Dynamic Optimized Advanced Scheduling of Bandwidth Demands for Large-Scale Science Applications	15

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46591 05/31/2013 Saraf	SC-22.23	Electronic Interfacing Between a Living Cell and a Nanodevice: A Bio-Nano Hybrid System	240
, UNIVERSITY OF MEDICAL CENTER Omaha, NE	DE-FG02-10ER65124 09/14/2012 Namavar	SC-23.2	Material Science Smart Coatings	486
Total for NE :				3,763

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 Listing of Active Awards for State (NH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-05ER15704 09/14/2012 Schaller	SC-22.13	Post-transcriptional regulation of ethylene perception and signaling in Arabidopsis	164
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-06ER15809 07/31/2012 Guerinot	SC-22.13	From the Soil to the Seed: Metal Transport in Arabidopsis	54
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER54915 01/31/2012 Rogers	SC-24.2	Gyrokinetic Simulations of Turbulent Transport in Fusion Plasmas	0
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER46392 06/30/2013 Baker	SC-22.22	Deformation of Spinodally-Formed Nanostructured Two-Phase B2/L21 Alloys	150
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER46372 06/30/2013 Bhattacharjee	SC-22.21	Center for Integrated Computation and Analysis of Reconnection and Turbulence	750
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-06ER54894 07/31/2011 Chen	SC-24.2	Collaborative Research: Laboratory Investigation of Alfvén Field Line Resonances and Electron Acceleration	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER54941 07/31/2012 Chen	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-88ER40410 12/31/2011 Holtrop, Calarco, Hersman	SC-26.1	Electromagnetic Studies of Nucleon and Nuclear Structure	425
Total for NH :				1,543



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Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FC02-10ER25997 08/31/2013 McKie	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	80
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FG02-08ER25847 01/14/2012 McKie	SC-21.1	HARE - Holistic Aggregated Resource Environment for Million-CPU Systems	300
HRS FUSION, LLC West Orange, NJ	DE-FG02-09ER55030 08/14/2012 Strauss	SC-24.2	Hall MHD Stability and Turbulence in Magnetically Accelerated Plasmas	65
HRS FUSION, LLC West Orange, NJ	DE-FC02-09ER55009 02/14/2016 Strauss	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
INSTITUTE FOR ADVANCED STUDY Princeton, NJ	DE-FG02-90ER40542 11/30/2012 Seiberg, Arkani-Hamed, Adler	SC-25	Problems in Particle Theory	864
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-07ER46402 07/14/2014 Tyson	SC-22.22	Exploring Electrical Polarization Mechanisms in Multiferroic Oxides	164
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-09ER64834 08/31/2011 Prodan	SC-23.1	Adopting Biophysical Methods in Pursuit of Biogeophysical Research	41
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-01ER54616 12/14/2012 Levinton	SC-24.2	Development of the Motional Stark Effect Diagnostic Using Laser-Induced Fluorescence (MSE-LIF)	360
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-99ER54520 02/29/2012 Levinton	SC-24.2	The Motional Stark Effect Diagnostic for NSTX	423
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER54828 09/30/2011 Suckewer	SC-24.2	Attaining Ultra-High Laser Pulses by Raman Backscattering Amplification and Compression in Plasma	110
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER46773 08/31/2013 Car	SC-22.22	CMSN: Structure and Dynamics of Water and Aqueous Solution in Materials Science	420
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64488 09/14/2011 Rabinowitz	SC-23.2	Quantitative Tools for Dissection of Hydrogen-Producing Metabolic Networks	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64467 02/29/2012 Sarmiento	SC-23.1	Do Coupled Climate Models Correctly Simulate the Upward Branch of the Deep Ocean Global Conveyor	243
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-08ER55001 07/31/2012 Fleischer	SC-24.2	Kinetic Instabilities and Turbulence in Photonic Plasma	165
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER55010 03/31/2012 Fisch	SC-24.2	Alpha Channeling in Open-System Magnetic Devices	60

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER46419 07/31/2013 Yazdani	SC-22.22	Probing Correlated Superconductors and their Phase Transitions on the Nanometer Scale	700
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-06ER46344 03/14/2013 Selloni	SC-22.23	Conceptual Design by First-Principles Molecular Dynamics of a Nanostructured Bio-Inspired Catalyst/ Electrode System	225
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER41657 04/14/2015 Halyo	SC-25	RECOVERY ACT: Diamond Pixel Luminosity Telescopes	600
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER41659 04/14/2015 Marlow	SC-25	RECOVERY ACT: Exploring New Physics Beyond the Standard Model	600
PRINCETON UNIVERSITY Princeton, NJ	DE-FC02-08ER41544 09/14/2012 Burrows	SC-25	SciDAC: Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	239
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER41514 08/31/2011 Strauss	SC-25	Systematic Effects in Type-1a Supernovae	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46200 01/31/2012 Hasan	SC-22.21	Synchrotron X-ray Based Electronic Structure Study of Correlated Quantum Materials	240
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46201 04/30/2014 Car	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	105
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46165 04/30/2012 Kahn	SC-22.22	Understanding and Design of Polymer Devices Interfaces	342
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46108 12/31/2011 Torquato	SC-22.23	Optimizing Interaction Potentials to Form Targeted Material Structures	127
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45683 02/14/2013 Tsui	SC-22.22	Transport Experiments on 2D Correlated Electron Physics in Semiconductors	165
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45706 04/30/2013 Cava	SC-22.23	New Superconducting Materials	186
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-00ER45841 11/14/2012 Shayegan	SC-22.22	Magneto-Transport in GaAs Two-Dimensional Hole Systems	175
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-02ER15344 10/31/2011 Rabitz	SC-22.11	Control of Molecular Dynamics: Algorithms for Design, and Implementation	130
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16057 08/31/2012 Panagiotopoulos	SC-22.11	Interactions, Phase Equilibria and Self-Assembly in Ionic Systems	172

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16065 08/31/2012 Bocarsly	SC-22.13	Photoelectrochemical Conversion of Carbon Dioxide to Methanol and Higher Order Alcohols	210
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16031 07/31/2014 Law	SC-22.13	Energy Frontier Research Center for Combustion Science -- EFRC	3,440
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER26024 08/31/2013 Kevrekidis	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	120
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-91ER40671 10/31/2011 Smith	SC-25	High Energy Physics Research	3,462
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER65101 09/14/2013 Myneni	SC-23.1	Role of Sulfhydryl Sites on Bacterial Cell Walls in the Biosorption, Mobility and Bioavailability of Mercury	280
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER65081 08/31/2013 Vallis	SC-23.1	The Mechanisms of Natural Variability and its Interaction With Anthropogenic Climate Change	346
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER64990 07/14/2013 Onstott	SC-23.2	The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost: An Experimental and Field Based Study	639
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64748 05/14/2012 Peters	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	138
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64813 08/31/2012 Rabinowitz	SC-23.2	Integration of Carbon, Nitrogen, and Oxygen Metabolism in Escherichia Coli	161
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40987 06/30/2014 Mekjian	SC-26.1	Studies of Nuclei Under the Extreme Conditions of Density, Temperature, Isospin Asymmetry and the Phase Diagram of Hadronic Matter	66
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40959 02/28/2013 Thomas	SC-25	Research in Theoretical High Energy Physics	622
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-01ER41165 02/28/2013 Neuberger	SC-25	Research in High Energy Physics - Theory	132
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER25977 04/30/2013 Silver	SC-21.1	SciDAC Institute for Ultra-Scale Visualization: Activity Recognition for Ultra-Scale Visualization	140
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-93ER14331 02/14/2014 Bartynski	SC-22.12	Nanoscale Surface Chemistry and Electrochemistry of Clean and Metal-Covered Faceted Substrates: Structure, Reactivity and Electronic	170
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER15957 06/14/2011 Niederman	SC-22.13	Structural and Functional Proteomic Analysis of a Developing Energy Transducing Membrane	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-09ER16118 09/14/2012 Castner	SC-22.13	SISGR: Physical Chemistry of Reaction Dynamics in Ionic Liquids	650
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER16195 08/31/2013 Dismukes	SC-22.13	Maximizing Photosystem II Water Oxidizing Efficiency Through the Identification of Optimal Protein Coordination Environments	165
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FC02-06ER54857 01/14/2012 Parashar	SC-24.2	SciDAC - Center for Plasma Edge Simulation	150
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46775 08/31/2013 Kotliar	SC-22.22	CMSN: Computational Design of Fe-based Superconductors	320
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46765 05/14/2014 Batson	SC-22.21	Discovery of Dielectric Response and Forces in Sub-Nanoscale Objects	200
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46763 08/31/2013 Podzorov	SC-22.23	Basic Surface Chemistry and Physics of Carbon-Based Electronic Materials Modified by Silane Molecular Layers	133
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER64544 04/30/2012 Barkay	SC-23.1	Reduction of Mercury in Saturated Subsurface Sediments and its Potential to Mobilize Mercury in its Elemental Form	316
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER64531 05/31/2012 Miller	SC-23.1	Site Science for the Atmospheric Radiation Measurement Mobile Facility #1	210
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-06ER46336 05/14/2013 Garofalini	SC-22.23	Atomistic Structure, Strength, and Kinetic Properties of Intergranular Films in Ceramics	142
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-07ER46382 05/31/2013 Cheong	SC-22.21	Magnetoelectric Hybrid Modes in Multiferroics: Neutron and Ellipsometry Studies	213
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER41663 04/14/2015 Shih	SC-25	RECOVERY ACT - Supersymmetry Breaking, Gauge Mediation and the LHC	600
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-99ER45761 08/14/2012 Kotliar, Abrahams	SC-22.22	Correlation Effects and Magnetism in Actinide: Elements and Compounds	125
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER65120 09/14/2013 Broccoli	SC-23.1	Investigating the Relationship Between Daily Temperature Extremes and Patterns of Climate Variability in Observations and Future Climate Simulations	261
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-09ER64854 08/14/2012 Ntarlagiannis	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for	12
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-09ER64855 08/31/2011 Slater	SC-23.1	Adopting Biophysics Methods in Pursuit of Biogeophysical Research: Advancing the Measurement & Modeling of Electrical Signatures of Microbe-Mineral...	28

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-06ER15828 12/31/2011 Piotrowiak	SC-22.13	Femtosecond Fluorescence Microscopy of Nanoparticles in Solar Photoconversion	170
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-01ER15256 01/14/2012 Galoppini, Piotrowiak	SC-22.13	Model Dyes for Study of Molecule-Semiconductor Interfaces and Electron Transfer Processes	150
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45742 11/14/2012 Andrei	SC-22.22	Experimental Studies of Magnetic Correlation and Induced Superconductivity in Graphene Crystals	230
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45790 12/31/2011 Coleman	SC-22.22	Spin Driven Phenomena in Strongly Correlated Materials	125
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-10ER46778 08/31/2013 Blumberg	SC-22.22	Raman Spectroscopy of Iron Oxypnictide Superconductors	150
Total for NJ :				21,822

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AIR FORCE RESEARCH LABORATORY Kirtland AFB, NM	DE-AI02-04ER54764 02/14/2012 Degnan	SC-24.2	Compressional Heating of a Simply Connected, Magnetically Confined Toroidal Plasma	1,702
CIENCE AND ENGINEERING SOCIETY Albuquerque, NM	DE-FG02-10ER30327 05/14/2013 George	SC-27	AISES: Intertribal Middle School Science Bowl (IMSSB)	148
EXCELLENCE FOR HAZ MTRLS MGNT Carlsbad, NM	DE-FG02-10ER64975 09/14/2011 Lynn	SC-23.2	Center or Excellence for Hazardous Materials Management (CEHMM) Algae to Biodiesel Project	729
LOVELACE BIOMED & ENVIR RES IN Albuquerque, NM	DE-FG02-09ER64783 07/14/2014 Scott	SC-23.2	Biological Bases for Radiation Adaptive Responses in the Lung	1,500
MEXICO INST. OF MINING & TECH Socorro, NM	DE-FG02-08CH11529 03/31/2012 Jones, Cervantes	SC-23	New Mexico Institute of Mining and Technology Will Use These Funds to Facilitate and Plan for Efforts to Construct an On-Campus Research Facility	0
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-08ER15996 08/14/2014 Smith	SC-22.12	Nitrogen Atom Transfer from High Valent Iron	120
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-94ER40847 03/31/2012 Kyle	SC-26.1	Experimental Studies of Quark-Gluon Structure of Nucleons and Nuclei	455
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-96ER40965 03/31/2014 Burkardt, Engelhardt	SC-26.1	Quark Gluon Structure of Hadrons in QCD	150
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-99ER41104 05/14/2014 Ellison	SC-25	Investigations of Beam Dynamics Issues at Current and Future Hadron Accelerators	188
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER41300 02/28/2013 Matthews, Seidel, Gold	SC-25	New Mexico Center for Particle Physics (NMCPP) -- Task A: Collider Physics; Task A2 Collider Physics; Task B: Particle	696
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-94ER40821 11/30/2011 Bassalleck, Fields	SC-26.1	Strange Particles and Heavy Ion Physics	363
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FC02-10ER26007 08/31/2013 Bridges	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	175
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15694 10/31/2011 Guo	SC-22.11	Quantum Dynamics of Elementary Chemical Reactions	92
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15712 08/31/2014 Datye	SC-22.12	Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks	225
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-06ER15765 03/31/2012 Kemp	SC-22.12	Direct Partial Oxidations Using Molecular Oxygen	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-02ER15368 11/14/2012 Brinker	SC-22.12	Catalytic and Transport Behaviors of Model Porous and Composite Nanostructures	180
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-03ER15419 07/31/2012 Paine	SC-22.12	Preorganized and Immobilized Ligands for Metal Ion Separations	17
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46506 06/30/2012 Litvak	SC-22.21	Linking Ecosystem Scale Vegetation Change to Shifts in Carbon and Water Cycling: The Consequences of Widespread Pinon	15
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46530 08/31/2012 Atanassov	SC-22.21	DOE EPSCoR Materials for Energy Conversion	810
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER41674 05/31/2015 Allahverdi	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	95
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER55028 12/14/2013 Gilmore	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	102
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER55062 08/14/2012 Gilmore	SC-24.2	Collaborative Research: Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial	150
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-07ER64393 03/14/2014 Pockman	SC-23.1	Hydraulic Mechanisms of Survival and Mortality During Drought in Pinon-Juniper Woodlands of Southwestern USA	473
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER46619 08/14/2012 Lynn	SC-22.21	Development of Optimized Field-Reversed Configuration Plasma Formation Techniques for Magnetized Target Fusion	15
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER46720 06/30/2013 Leseman	SC-22.21	Manipulation of Phonons With Phononic Crystals	565
, UNIVERSITY OF HEALTH SCI CTR Albuquerque, NM	DE-FG02-08ER64580 12/31/2011 Burchiel	SC-23.2	New Mexico Center for Isotopes in Medicine	0
NC (DBA NEW MEXICO CONSORTIUM) Los Alamos, NM	DE-FG02-09ER55026 07/31/2012 Rose	SC-24.2	Instability and Transport of Laser Beam in Plasma	108
ECHNOLOGY VENTURES CORPORATION Alberquerque, NM	DE-FG02-10ER64976 09/14/2013 McCorkle	SC-23.2	Technology Transfer & Commercialization of Technologies at National Laboratories by Technology Ventures Corporation	729
Total for NM :				10,052

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DESERT RESEARCH INSTITUTE Las Vegas, NV	DE-FG02-10ER64965 06/14/2013 Moser	SC-23.1	Radiochemically-Supported Microbial Communities: A Potential Mechanism for Biocolloid Production of Importance to Actinide Transport	373
DESERT RESEARCH INSTITUTE Reno, NV	DE-FG02-10ER65003 09/14/2012 Boyle	SC-23.2	Nevada Water Resources Data, Modeling, and Visualization (DMV) Center at the Desert Research Institute - Phase II	729
DESERT RESEARCH INSTITUTE Reno, NV	DE-FG02-06ER64201 03/14/2012 Mitchell	SC-23.1	Improving the Representation of Ice Sedimentation Rates in Global Climate Models	170
ADA SYSTEM OF HIGHER EDUCATION Las Vegas, NV	DE-FG02-03ER15424 01/31/2013 Phaneuf	SC-22.11	Energetic Photon and Electron Interactions with Positive Ions	165
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10ER46721 06/30/2013 Cornelius	SC-22.21	High Pressure X-ray Absorption Studies on Correlated-Electron Systems	548
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-03ER63651 09/14/2012 Nowak	SC-23.1	Biotic Processes Regulating the Carbon Balance of Desert Ecosystems	240
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10CH20021 12/31/2011 Lombardo	SC-23	Performance Assessment Institute (NV) at the University of Nevada, Las Vegas	972
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10ER64979 09/14/2015 Bae	SC-23.2	Development of Ultrafiltration Membrane-Separation Technology for Energy-Efficient Water Treatment and	777
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER15645 01/31/2012 Ervin	SC-22.11	Hydrocarbon Radical Thermochemistry: Gas-Phase Ion Chemistry Studies	141
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER15626 08/31/2012 Harper	SC-22.13	P-type ATPases in Plants- Role of Lipid Flippases in Membrane Biogenesis	140
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-08ER54951 12/14/2013 Safronova	SC-24.2	Theoretical Study of Radiation for Tungsten Ions for Magnetic Fusion Diagnostics	150
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-09ER46670 03/14/2013 Li	SC-22.22	Micro-Mechanisms and Multi-Scale Modeling of Cyclic Plastic Deformation of Magnesium Single Crystals	280
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER54752 02/14/2012 Bauer	SC-24.2	Intense Magnetized Plasma-Wall Interaction	370
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-10ER41647 05/31/2012 Murphy	SC-25	Single Crystal Niobium Tubes for Particle Colliders Accelerator Cavities	200

Total for NV :

5,255



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALFRED UNIVERSITY Alfred, NY	DE-FG02-10ER16128 03/14/2013 Bowers	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically Important Fluids and Mineral-Fluid	82
N NATIONAL STANDARDS INSTITUTE New York, NY	DE-FG02-09ER46566 08/14/2013 Benko	SC-22.22	Nanotechnology Standardization Activities - Support of U.S. Representation on ISO/TC 229 Nanotechnologies	50
THOMPSON INST. FOR PLANT RES. Ithaca, NY	DE-FG02-08ER64628 07/31/2012 Harrison	SC-23.1	Identification of Genes That Regulate Phosphate Acquisition and Plant Performance During Arbuscular Mycorrhizal Symbiosis in Medicago Truncatula and	255
BOYCE THOMPSON INSTITUTE Ithaca, NY	DE-FG02-90ER20015 08/31/2013 Stern	SC-22.13	Function and Regulation of Chloroplast-Encoded Antisense RNAs	155
BRONX COMMUNITY COLLEGE Bronx, NY	DE-FG02-04CH11210 12/31/2011 Seliger	SC-23	Center for Sustainable Energy at Bronx Community College	111
BRONX COMMUNITY COLLEGE Bronx, NY	DE-FG02-10ER65035 02/14/2012 Seliger	SC-23.2	Center for Sustainable Energy - Facility Development Continuation	374
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46157 07/14/2012 Osgood	SC-22.22	Mapping the Electron Response of Nanomaterials	205
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46169 08/31/2013 Millis	SC-22.22	Theory of Surface and Interface Physics of Correlated Electron Materials	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER46215 07/14/2014 Kim	SC-22.22	Investigation of the Electron Interactions in Graphene	632
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64334 07/31/2012 Kleiman	SC-23.2	Low Dose Radiation Cataract	55
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64336 11/30/2011 Amundson	SC-23.2	Mechanistic and Quantitative Studies of Bystander Responses in 3-D Human Tissues for Low-Dose Radiation Risk Estimation	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-02ER63413 07/14/2011 Robertson	SC-23.1	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-95ER54333 01/31/2013 Boozer	SC-24.2	Stellarator Theory	79
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER53222 11/30/2013 Navratil	SC-24.2	High Beta Tokamak Research	933
COLUMBIA UNIVERSITY New York, NY	DE-FG02-00ER54585 08/14/2012 Mauel	SC-24.2	Nonlinear Dynamics of Strong Interchange Instabilities in a Rotating Dipole-Confined Plasma	105

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COLUMBIA UNIVERSITY New York, NY	DE-FG02-99ER54524 03/14/2014 Sabbagh	SC-24.2	Study of MHD Stability and Active Mode Control in NSTX	525
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54459 10/31/2011 Mauel	SC-24.2	Levitated Dipole Experiment	427
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54464 01/14/2012 Sen	SC-24.2	Basic Physics of Tokamak Transport and Feedback Control	300
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER54761 08/14/2013 Navratil	SC-24.2	MHD Mode Control Research in DIII-D	375
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54862 01/14/2012 Keyes	SC-24.2	Center for Plasma Edge Simulation	110
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54863 01/14/2012 Keyes	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics	55
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER40764 12/14/2013 Gyulassy	SC-26.1	Theory of Ultra-Dense Matter and the Dynamics of High Energy Interactions Involving Nuclei	295
COLUMBIA UNIVERSITY New York, NY	DE-FG02-92ER40699 11/30/2013 Lee	SC-25	Theoretical High Energy Physics	1,897
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER40281 11/14/2011 Zajc	SC-26.1	Jet and Heavy Flavor Probes of the Quark-Gluon Plasma	800
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER25783 08/14/2012 Keyes	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	160
COLUMBIA UNIVERSITY New York, NY	DE-FG02-08ER25856 08/14/2012 Goldfarb	SC-21.1	Algorithms for Mathematical Programming with Emphasis on Bi-Level Models	195
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25915 09/14/2012 Waisman	SC-21.1	Modeling the Fracture of Ice Sheets on Parallel Computers	301
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25919 08/31/2012 Gelman	SC-21.1	Petascale Hierarchical Modeling via Parallel Execution	263
COLUMBIA UNIVERSITY New York, NY	DE-FC02-10ER25990 08/31/2013 Bergman	SC-21.1	Data Movement Dominates: Advanced Memory Technology to Address the Real Exascale Power Problem	200
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER16064 08/14/2012 McDermott	SC-22.13	Studies of Structure and Dynamics of Light Harvesting Complex 1 of R. Sphaeroides by Solid State NMR	0

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COLUMBIA UNIVERSITY New York, NY	DE-FG02-01ER15264 01/31/2014 Nuckolls, Brus	SC-22.12	Catalytic Methods to Form Organic Electronic Materials.	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-91ER14226 01/31/2013 Eisenenthal	SC-22.11	Photochemistry at Interfaces	152
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER14339 07/31/2012 Parkin	SC-22.12	Fundamental Studies of Metal Centered Transformations Relevant to Catalysis	155
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14162 04/30/2012 Friesner	SC-22.13	Theoretical Studies of Photoactive Molecular Systems: Electron Transfer, Energy Transport, and Optical Spectroscopy	180
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14104 05/31/2014 Osgood	SC-22.11	Laser Dynamics Studies of Photoreactions on Single-Crystal and Nanostructured Surfaces	117
COLUMBIA UNIVERSITY New York, NY	DE-FG02-88ER13937 06/30/2012 Flynn	SC-22.11	Scanning Tunneling Microscopy Studies of Chemical Reactions on Surfaces	159
COLUMBIA UNIVERSITY New York, NY	DE-FG02-97ER14807 05/31/2013 Norton	SC-22.12	Catalytic Applications of H Atom Transfer from Transition-Metal Hydride Complexes	185
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65096 08/31/2013 Tippett	SC-23.1	Collaborative Research: Separating Forced and Unforced Decadal Predictability in Models and Observations	35
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65109 09/14/2013 Cane	SC-23.1	Present and Future Modes of Low Frequency Climate Variability	451
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65110 09/14/2013 Seager	SC-23.1	Impact of Rising Greenhouse Gases on Mid-Latitude Storm Tracks and Associated Hydroclimate Variability and Change	360
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64809 07/14/2012 Hall, Smilenov	SC-23.2	Genetic Control of the Trigger for the G2/M Checkpoint	316
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65024 07/14/2012 Kenna	SC-23.1	Development of Enabling Scientific Tools to Characterize the Geologic Subsurface at Hanford	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64898 09/14/2014 Bauer	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-87ER45298 12/31/2013 DiSalvo	SC-22.23	Synthesis, Characterization and Properties of Nanoparticles of Intermetallic Compounds	268
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-89ER45405 04/30/2012 Henley	SC-22.22	Quasi-crystals and Quasi-equivalence: Symmetries and Energies in Alloys and Biological Materials	125

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CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER46154 09/14/2011 Siewers	SC-22.3	Holographic Spectroscopy for Rapid Electron Bunch Analysis: Development of an Instrument with THz Resolved Optical	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER41628 08/14/2012 Hoffstaetter	SC-25	Fundamental Research in Superconducting RF Cavity Design	398
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46440 08/31/2013 van Dover	SC-22.22	Complex Amorphous and Crystalline Thin Film Dielectrics	190
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-08ER46517 05/31/2014 Liddell	SC-22.23	Self-Assembly of Non-Spherical Colloids: New Reduced Symmetry Crystals and Mesophases for Templating Functional Materials at Fine Scales	174
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER46250 08/31/2011 Abruna	SC-22.23	Basic Research for the Hydrogen Fuel Initiative	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46432 08/31/2013 Chan	SC-22.22	Bridging the Quantum-Chemistry Solid-State Divide: Theory and Application to Molecular Crystals	285
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46393 04/14/2013 Sethna	SC-22.22	Deformed Materials: Towards a Theory of Materials Morphology Dynamics	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46758 08/14/2013 Miller	SC-22.22	Understanding Microplasticity Processes Related to Fatigue Damage Using High Energy X-Rays and a Crystal-Based Modeling Formulation	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46682 04/14/2015 Bazarov	SC-22.3	RECOVERY ACT - Investigation of Fundamental Limits to Beam Brightness Available From Photoinjectors	600
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46684 04/14/2015 Erickson	SC-22.23	RECOVERY ACT - Directed Assembly of Hybrid Nanostructures Using Optically Resonant Nanotweezers	600
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46693 04/30/2013 Gruner	SC-22.3	Versatile, Reprogrammable Area Pixel Array Detector for Time-Resolved Synchrotron X-ray Applications	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER46654 09/14/2012 Schlom	SC-22.23	SISGR - Using Interfaces To Create Strongly-Coupled Magnetic-Ferroelectrics	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-97ER62443 11/30/2011 Gruner	SC-23.2	Development and Applications of Photosensitive Device Systems to Studies of Biological and Organic Materials	350
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55048 08/14/2012 Greenly	SC-24.2	Experimental and Computational Studies of High Energy Density Plasma Streams Ablated from Fine Wires	341
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER54942 07/31/2011 Seyler	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	0

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CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55031 08/14/2012 Hammer	SC-24.2	Spectroscopic Determination of the Magnetic Fields in Exploding Wire and X Pinch Plasmas	184
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER41354 08/31/2011 Hoffstaetter	SC-25	RECOVERY ACT: Research in Superconducting Radiofrequency Systems	191
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER16199 08/31/2013 Chen	SC-22.12	Chemical Imaging of Single Metal Nanoparticle Catalysis	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-93ER25164 02/28/2012 Guckenheimer	SC-21.1	Computational Analysis of Dynamical Systems	115
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER26025 08/31/2013 Zabaras	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	135
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER15687 08/14/2014 Coates	SC-22.12	Development and Application of New Catalysts for Heterocycle Carbonylation	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER16070 08/14/2012 Hanson	SC-22.13	Chloroplast Dynamics and Photosynthetic Efficiency	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-90ER14128 06/14/2012 Pope	SC-22.11	Investigation of Non-Premixed Turbulent Combustion	146
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-00ER15095 12/31/2013 Davis	SC-22.11	Bimolecular Dynamics of Combustion Reactions	70
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-01ER15180 10/31/2011 Cool	SC-22.11	Studies of the Chemistry of Oxygenated Fuels with Photoionization Mass Spectrometry	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER64988 06/14/2013 Buckley	SC-23.2	Microbial Food Web Mapping: Linking Carbon Cycling and Community Structure in Soils Through Pyrosequencing Enabled Stable Isotope Probing	255
DOWLING COLLEGE Oakdale, NY	DE-FG02-03ER63601 08/31/2011 Bernstein	SC-23.2	Local System Support for PDB Biological Unit Search and Display	0
GENERAL ELECTRIC COMPANY Niskayuna, NY	DE-FG02-09ER46575 07/31/2014 Soloveichik	SC-22.11	Center for Electrocatalysis, Transport Phenomena and Materials for Innovative Energy Storage -- EFRFC	2,499
HEALTH RESEARCH INC. Menands, NY	DE-FG02-09ER64756 05/14/2012 Newberg	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	65
IBM CORPORATION Yorktown Heights, NY	DE-FG02-09ER25941 09/14/2012 Moreira	SC-21.1	HPC Colony II	164

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IBM TJ WATSON RESEARCH CENTER Yorktown Heights, NY	DE-FC02-10ER25996 08/31/2013 Van Hensbergen	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	79
KITWARE, INC. Clifton Park, NY	DE-FG02-10ER65065 08/31/2013 Geveci	SC-23.1	Ultra-Scale Visualization Climate Data Analysis Tools	299
KITWARE, INC. Clifton Park, NY	DE-FC02-10ER26038 08/31/2013 Geveci	SC-21.1	A Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	150
NATIONAL AERONAUT & SPACE ADM New York, NY	DE-AI02-09ER64739 04/30/2012 Del Genio	SC-23.1	Evaluation and Improvement of Cloud and Convective Parameterizations from Analyses of ARM Observations and Models	244
NATIONAL AERONAUT & SPACE ADM New York, NY	DE-AI02-08ER64547 10/31/2011 Ackerman	SC-23.1	Combining Measurements and Cloud-Resolving Model Simulations to Assess Aerosol Indirect Effects in Shallow Convection	47
NEW SCHOOL, THE New York, NY	DE-FG02-05CH11275 10/31/2013 Moriarty, Goodman	SC-23	The New School Green Building	972
YORK UNIV. SCHOOL OF MEDICINE New York, NY	DE-FG02-08ER64654 10/31/2011 Barcellos-Hoff	SC-23.2	Integrative Radiation Biology	839
YORK UNIV. SCHOOL OF MEDICINE New York, NY	DE-FG02-08ER64670 09/14/2011 Gordon	SC-23.2	Development of Biomarkers for Chronic Beryllium Disease in Mice	0
NEW YORK UNIVERSITY New York, NY	DE-FG02-08ER64587 07/31/2011 Holland	SC-23.1	Modeling Abrupt Change in Global Sea Level Arising from Ocean - Ice-Sheet Interaction	138
NEW YORK UNIVERSITY New York, NY	DE-FG02-86ER53223 12/31/2012 Weitzner, Chang	SC-24.2	Plasma Properties (Task III)	664
NEW YORK UNIVERSITY New York, NY	DE-FC02-06ER54845 08/31/2011 Weitzner	SC-24.2	SciDAC - Center for Plasma Edge Simulation	424
NEW YORK UNIVERSITY New York, NY	DE-FC02-09ER55017 07/31/2011 Chang	SC-24.2	Collaborative: Fusion Simulation Program (FSP)	70
NEW YORK UNIVERSITY New York, NY	DE-FG02-03ER46099 02/28/2013 Evans	SC-22.23	Material Lessons of Biology: Structure-Function Studies of Protein Sequences Involved in Inorganic-Organic	250
NEW YORK UNIVERSITY New York, NY	DE-FG02-09ER25924 09/14/2012 Vanden-Eijnden	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Events	124
NEW YORK UNIVERSITY New York, NY	DE-FG02-92ER20071 05/31/2014 Coruzzi	SC-22.13	Asparagine Synthetase Gene Regulatory Network and Plant Nitrogen Metabolism	170

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NEW YORK UNIVERSITY New York, NY	DE-FG02-88ER25053 04/30/2014 Berger, Greengard	SC-21.1	Applied Analysis and Computational Mathematics	1,390
NEW YORK UNIVERSITY New York, NY	DE-FG02-06ER25718 12/14/2012 Widlund	SC-21.1	Domain Decomposition and Parallel Computing	123
NIVERSITY, POLYTECHNIC INST OF Brooklyn, NY	DE-FC02-10ER26019 08/31/2013 Chiang	SC-21.1	An Informational-theoretic Framework for Enabling Extreme-scale Science Discovery	100
ORK, CITY U. OF BARUCH COLLEGE New York, NY	DE-FG02-09ER41620 06/30/2012 Jalilian-Marian	SC-26.1	High-Energy QCD in Heavy-Ion Collisions	95
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-03ER15458 04/30/2013 Makse	SC-22.12	Studies of Elasticity, Sound Propagation and Attenuation of Acoustic Modes in Granular Media	118
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-06ER15817 08/14/2012 Koplik	SC-22.12	Particulate Transport and Sedimentation in Fracture Systems	95
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-09ER16075 08/31/2012 Gunner	SC-22.13	Studies of Photosynthetic Reaction Centers and Biomimetic Systems	181
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-84ER45153 08/31/2012 Sarachik	SC-22.22	Thermal Conductivity and Thermopower Near the 2D Metal-Insulator Transition	150
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-10ER46678 12/31/2012 Tamargo	SC-22.23	Synthesis & Engineering of Submonolayer Type-II Quantum Dots to Enhance Material Properties of Wide Bandgap Semiconductors	200
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-10ER46777 08/31/2013 Greenbaum	SC-22.23	Spectroscopic Studies of Materials for Electrochemical Energy Storage	180
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-01ER45935 01/14/2014 Matsui	SC-22.23	Programmed Nanomaterial Assemblies in Large-Scale Structures: Applications of Synthetic and Genetically Engineered Peptides to Bridge Nano-Assemblies and...	201
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-09ER16097 09/14/2012 Francesconi	SC-22.12	SISGR - Fundamental Chemistry of Technetium-99 Incorporated Into Metal Oxide, Phosphate and Sulfide Materials:	400
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-02ER15287 10/31/2011 Alexandratos	SC-22.12	Functionalized Scaffolds as a New Approach to the Design of Ion-Selective Polymer-Supported Reagents	240
NEW YORK, CITY U. OF LEHMAN C. New York, NY	DE-FG02-93ER45487 04/14/2014 Chudnovsky	SC-22.22	Dynamics of the Magnetic Flux in Superconductors	59
RK, CITY U. OF, QUEENS COLLEGE Flushing, NY	DE-FG02-09ER16047 08/31/2012 Jang	SC-22.11	Computational Modeling and Theory Development of Energy and Charge Flow Dynamics in Photosynthetic Units and Conjugated Polymer Systems	82

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TY UNIVERSITY OF STATEN ISLAND Staten Island, NY	DE-FG02-09ER25907 08/31/2012 Teddall	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	38
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-07ER41502 08/31/2013 Ernst	SC-25	New Ideas for the ATLAS Experiment	145
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-03ER63531 12/14/2011 Min	SC-23.1	Retrievals of Cloud Optical Properties and Photon Path Length Distributions Using Existing ARM Data Streams	182
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-92ER61369 01/31/2013 Wang	SC-23.1	Study of Regional Climate Change	380
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-10ER65098 09/14/2012 Fitzjarrald	SC-23.1	Evaluating the Contribution of Climate Forcing and Forest Dynamics to Accelerating Carbon Sequestration by	145
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FC02-07ER25803 11/14/2011 Govindaraju	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	92
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FG02-09ER46600 05/14/2012 Zhou	SC-22.23	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	150
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER16066 08/14/2012 Autschbach	SC-22.12	Computational Studies of NMR Chemical Shifts in Open-Shell Actinide and Lanthanide Systems	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-90ER14143 10/14/2011 Bright	SC-22.12	Interfacial Solvation Under Aggressive Conditions	135
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-02ER15372 11/14/2012 Coppens	SC-22.13	Ground and Excited State Structures of Sensitizer Dyes Adsorbed on Semiconductor Nanoparticles	230
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-10ER46781 09/14/2013 Zutic	SC-22.22	Tailoring Magnetism and Spin in Quantum Dots	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER46660 09/14/2012 Takeuchi	SC-22.23	SISGR: Bimetallic Electrochemical Displacement Materials Yielding High Energy, High Power, and Improved Reversibility	200
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-04ER46180 09/14/2013 Bird	SC-22.22	Quantum Coherence and its Manipulation in Coupled Quantum Dots	169
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-03ER46064 11/14/2012 DeMarco	SC-22.22	Magnetic and Superconducting Properties of Materials Studied by the 99Ru, 189Os, 119Sn, 57Fe and 191Ir Mossbauer Effects in External Magnetic Fields	130
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER64857 08/31/2011 Csatho	SC-23.1	Time-Lapse Tomographic Approaches for Monitoring Remediation Processes	55



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NEW YORK, STATE U. OF DELHI Delhi, NY	DE-FG02-06ER64288 03/14/2012 Volk, Smith	SC-23.2	Center of Excellence in Watershed Applications and Technology-enhanced Economic Revitalization - Willow and Forest Biomass Project	0
NEW YORK, STATE U. OF GENESEO Geneseo, NY	DE-FG02-10CH20022 12/31/2015 Geiger	SC-23	Molecular Structure Laboratory: Fourier Transform Nuclear Magnetic Resonance (FTNMR) Spectrometer and Ancillary	486
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER14633 11/30/2011 Schoonen	SC-22.12	Reactivity of Iron Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary and Experimental Approach	76
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16052 02/29/2012 Fernandez-Serra	SC-22.11	Optimizing Interfacial Charge Transfer in Photocatalytic Water Splitting Devices	131
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER15984 02/14/2014 Weinacht	SC-22.11	Combining High Level Ab Initio Molecular Structure Calculations with Laser Control of Molecular Dynamics	126
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16017 05/31/2012 Reeder	SC-22.12	Structural Basis for Stabilization and Transformation Behavior of Amorphous Calcium Carbonate	163
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16033 07/31/2014 Whittingham	SC-22.22	Northeastern Chemical Energy Storage Center (NOCESC) -- EFRC	2,636
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER16139 04/14/2015 Fernandez-Serra	SC-22.11	RECOVERY ACT - First Principles Modeling of Metal-Electrolyte Systems: A Novel Approach to the Study of the	600
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER16159 05/31/2013 Wong	SC-22.12	Changes of Porosity, Permeability and Mechanical Strength Induced by Carbon Dioxide Sequestration	229
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-07ER25817 10/01/2010 Zhu	SC-21.1	Statistical Approaches to Aerosol Dynamics for Climate Simulation	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-06ER25770 12/14/2011 Li	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations (ITAPS)	145
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER25955 12/14/2012 Dantong	SC-21.1	RECOVERY ACT - 100G FTP: An Ultra-High Speed Data Transfer Service Over Next Generation 100 Gigabit Per Second Network	1,500
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-92ER40697 11/14/2012 Jung, Rijssenbeek, Hobbs	SC-25	Nucleon Decay and Neutrino Experiments and Experiments at High Energy Hadron Colliders	1,586
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-88ER40388 11/30/2011 Shuryak	SC-26.1	Research in Theoretical Nuclear Physics	790
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40331 03/31/2014 Lacey	SC-26.1	Nuclear Reaction Studies	373

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NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40317 11/30/2013 Lattimer	SC-26.1	Research in Nuclear Astrophysics: Supernovae and Neutron Stars	221
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-05ER41372 12/31/2013 Deshpande	SC-26.1	Studies of Polarized Proton Collisions at RHIC	309
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER41448 11/30/2013 Zingale	SC-26.1	Multidimensional Modeling of Astrophysical Thermonuclear Explosions	93
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER40988 03/31/2014 Jacak, Drees, Hemmick	SC-26.1	Studies of Relativistic Heavy Ion Collisions at RHIC	940
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-98ER62570 02/29/2012 Zhang	SC-23.1	Development of Integrated ARM Datasets and Their Application to Improve Climate Models	183
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER55036 06/30/2013 Samulyak	SC-24.2	Study of Plasma Liner Driven Magnetized Target Fusion via Advanced Simulations	72
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER64444 07/31/2012 Zhang	SC-23.1	Improved Atmosphere-Ocean Coupled Modeling in the Tropics for Climate Prediction	188
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER46650 09/14/2012 Parise	SC-22.21	SISGR - Fundamental Studies of the Structural Response of Disordered Materials to High P and T	164
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER41488 11/30/2011 Shkolnikov	SC-25	High Brightness Picosecond Ion Beam Source Based on Brookhaven National Lab Ultrafast Terawatt CO <sub>2</sub> Laser: Proof-of-Principle	86
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41547 07/14/2012 Ben-Zvi	SC-25	Study of Electron Transport and Amplification in Diamond	113
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41540 11/30/2012 Teaney	SC-26.1	Transport Processes in Non-Abelian Gauge Theories	98
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER41626 09/14/2012 Ben-Zvi	SC-25	R&D on Very-High-Current Superconducting Proton Linac	551
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER46550 02/29/2012 Allen	SC-22.22	Quantum Theory of Semiconductor Photo-Catalysis and Solar Water Splitting	140
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64747 05/14/2012 Lindquist	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	137
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64900 09/14/2014 Zhang	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	0

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NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER64925 01/31/2012 Lin	SC-23.1	Two-Way Integration of WRF and CCSM for Regional Climate Simulations	226
NEW YORK, STATE U. OF SYRACUSE Syracuse, NY	DE-FG02-09ER16101 09/14/2012 Dibble	SC-22.11	SISGR: Dynamics of Radical Reactions in Biodiesel Combustion	120
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-94ER14432 10/31/2011 Watson	SC-22.12	Grain-Boundary Transport of Incompatible Elements in Rocks	206
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER16005 01/31/2012 Belfort	SC-22.12	Combinatorial and High Throughput Membrane Synthesis and Testing: Tailoring Membrane Surfaces to Applications	155
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-07ER15903 08/31/2013 Lakshmi	SC-22.13	Elucidating the Principles that Control Proton-Coupled Electron Transfer Reactions in the Photosynthetic Protein, Photosystem II. A Model for Design of Bio-Insp	160
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-10ER25989 08/31/2013 Carothers	SC-21.1	Enabling Co-design of Multi-layer Exascale Storage Architectures	144
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-06ER25769 12/14/2011 Shephard	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations	500
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46593 05/31/2013 Kane	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	175
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46608 08/31/2012 Zhang	SC-22.22	TMS: Defect Modeling Beyond the Density Functional Theory	600
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-06ER46347 09/14/2012 Lin	SC-22.22	Architectural Photonics for Maximizing Solar Energy Conversion	250
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-08ER41575 08/31/2014 Napolitano	SC-25	Searching for Theta_13 at Daya Bay	256
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-88ER40414 03/31/2014 Schroeder	SC-26.1	Studies of Heavy Ion Reactions and Transuranic Nuclei	335
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-91ER40685 10/31/2011 McFarland	SC-25	Theoretical and Experimental Studies of Elementary Physics	2,536
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-94ER20155 05/31/2011 Wu	SC-22.13	Transcription Regulation of CeIS and a Novel Cellulase Operon Encoding Five Clostridium thermocellum Cellulosomal	0
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16089 09/14/2012 Holland	SC-22.12	High-Spin Cobalt Hydrides for Catalysis	145

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ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16121 09/14/2012 Bren	SC-22.13	SISGR: Modular Nanoscale and Biomimetic Assemblies for Photocatalytic Hydrogen Generation	560
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER15713 01/31/2012 Eberly	SC-22.11	Atomic and Molecular Electron Correlation in Strong Fields	100
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER15821 02/28/2013 Krauss	SC-22.13	Photophysics and Photoinduced Charge Transport in Single Walled Carbon Nanotubes	120
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-01ER15204 10/31/2013 Novotny	SC-22.11	Antenna-Coupled Light-Matter Interactions	135
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-86ER13569 05/31/2011 Jones	SC-22.12	Transition Metal Activation and Functionalization of Carbon-Hydrogen Carbon-Carbon Bonds	150
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER46298 04/30/2012 Teitel	SC-22.22	Critical Phenomena in Driven Granular Matter: Jamming and Glassy Behavior	115
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER46207 05/14/2014 Novotny	SC-22.22	Optical Spectroscopy of Defects and Dopants in Nanocarbon Materials	140
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER55033 08/14/2014 Frank	SC-24.2	The Dynamics of Magnetized Astrophysical Jets Through Pulsed Power HEDP Laboratory Studies	536
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-93ER54215 11/30/2011 Betti	SC-24.2	Magnetohydrodynamics of Tokamak Plasma with Arbitrary Flow: Equilibrium, Stability and Nonlinear Evolution	98
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER54839 05/31/2012 Theobald	SC-24.2	Advanced Concept Exploration of Fast Ignition	500
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FC02-04ER54789 07/31/2014 Betti	SC-24.2	Fusion Science Center for Extreme States of Matter and Fast Ignition Physics	1,579
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-04ER54768 05/31/2012 Betti	SC-24.2	Laser Driven Magnetic-Flux Compression: Advanced Ignition and Applications to Basic Science	197
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-08ER64692 09/14/2011 Wu	SC-23.2	Pathways and Regulatory Network of Hydrogen Production from Cellulose by Clostridium Thermocellum	360
ROCKEFELLER UNIVERSITY New York, NY	DE-FG02-91ER40651 01/31/2013 Goulianos	SC-25	Experimental Studies of Elementary Particle Interactions at High Energies	572
ROCKLAND COMMUNITY COLLEGE Suffern, NY	DE-FG02-08CH11522 12/31/2012 Baker	SC-23	Rockland Community College Science Laboratory (NY)	291

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ETTERING INST. FOR CANCER RES. New York, NY	DE-FG02-09ER64822 08/31/2013 Lewis	SC-23.2	Integrated Manhattan Project for Excellence in Radiochemistry (IMPER)	600
ETTERING INST. FOR CANCER RES. New York, NY	DE-FG02-09ER64874 09/14/2011 Lewis	SC-23.2	Multimodality Imaging with Silica-Based Targeted Nanoparticle Platforms	0
ST. BONAVENTURE UNIVERSITY St. Bonaventure, NY	DE-FG02-10CH20004 08/31/2011 Fischer	SC-23	Science Lab Expansion at St. Bonaventure University	534
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-84ER40146 03/31/2014 Souder	SC-26.1	Spin Dependent Phenomena in Medium Energy Physics	408
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-85ER40231 12/31/2012 Balachandran	SC-25	Research Program in Elementary Particle Theory	355
UNION COLLEGE Schenectady, NY	DE-FG02-05ER41398 08/31/2013 Surman	SC-26.1	Neutrinos and Nucleosynthesis in Gamma Ray Bursts	33
Total for NY :				57,186

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AKRON, UNIVERSITY OF Akron, OH	DE-FG02-10ER46779 08/31/2013 Karim	SC-22.21	In-situ Neutron Scattering Determination of 3D Phase-Morphology Correlations in Fullerene Block Copolymer Systems	295
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-05CH11279 04/30/2011 Cakmak, Kelley	SC-23	Development of National Polymer Innovation Center	0
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-90ER14151 06/30/2014 Perry	SC-22.11	The Dynamics of Large-Amplitude Motion in Energized Molecules	122
BOWLING GREEN STATE UNIVERSITY Bowling Green, OH	DE-FG02-06ER15827 03/31/2013 Lu	SC-22.11	Single-Molecule Interfacial Electron Transfer	365
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-95ER40898 12/31/2012 Starkman, Vachaspati	SC-25	Theoretical Physics Research at the High Energy Frontier, Including Astrophysics and Cosmology	257
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-01ER45934 11/14/2012 Rosenblatt	SC-22.23	Nanosopic Manipulation and Imaging of Liquid Crystals	130
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-07ER64353 08/31/2012 Heineman	SC-23.1	Spectroelectrochemical Sensor for Pertechetate Applicable to Hanford and other DOE Sites	0
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-84ER40153 12/31/2013 Wijewardhana	SC-25	Research in Particle Physics Task A and B	826
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-04ER15604 08/14/2013 Guliantz	SC-22.12	Surface Termination of M1 Phase and Rational Design of Propane Ammoxidation Catalysts	160
EVELAND CLINIC FOUNDATION, THE Cleveland, OH	DE-FG02-09CH11565 07/31/2012 Lowe	SC-23	Next Generation Neuroimaging at Cleveland Clinic	0
KENT STATE UNIVERSITY Kent, OH	DE-FG02-10ER64971 05/31/2013 Blackwood	SC-23.2	Tracking Down Cheaters: Molecular Analysis of Carbon Consumption by Organisms That Do Not Contribute to Extracellular Enzyme Pools	344
KENT STATE UNIVERSITY Kent, OH	DE-FG02-09ER46572 02/28/2013 Kumar	SC-22.23	Biaxiality in Thermotropic Bent-Core and Tetrapodic Nematic Liquid Crystals	350
KENT STATE UNIVERSITY Kent, OH	DE-FG02-06ER46331 08/14/2013 Lavrentovich	SC-22.22	Electric Field Effects in Liquid Crystals with Dielectric Dispersion	180
KENT STATE UNIVERSITY Kent, OH	DE-FG02-01ER41194 06/14/2013 Manley	SC-26.1	Baryon Spectroscopy Through Partial-Wave Analysis and Meson Photoproduction	80
KENT STATE UNIVERSITY Kent, OH	DE-FG02-89ER40531 03/31/2012 Keane, Margetis	SC-26.1	Heavy Ion Collisions Over a Range of Relativistic Energies	433

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MIAMI UNIVERSITY Oxford, OH	DE-FG02-86ER45281 12/31/2013 Pechan	SC-22.22	Magnetic Nanostructures and Spintronic Materials	81
MIAMI UNIVERSITY Oxford, OH	DE-FG02-07ER64369 03/14/2012 Dong	SC-23.1	Technetium and Iron Biogeochemistry in Suboxic Subsurface Environments with Emphasis on the Hanford Site	0
MIAMI UNIVERSITY Oxford, OH	DE-FG02-10ER16138 04/14/2015 Dabney-Smith	SC-22.13	RECOVERY ACT - Thylakoid Assembly and Folded Protein Transport by the Tat Pathway	600
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15495 11/14/2012 Allen	SC-22.12	Geochemistry of Interfaces: From Surfaces to Interlayers to Clusters	87
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15614 10/31/2013 DiMauro	SC-22.11	Attosecond and Ultra-Fast X-Ray Science	200
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-01ER15172 10/31/2013 Miller	SC-22.11	Spectroscopic Detention, Characterization and Dynamics of Free Radicals Relevant to Combustion Processes	140
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER15976 08/31/2014 Tabita	SC-22.13	Molecular Regulation of Photosynthetic Carbon Dioxide Fixation in Nonsulfur Purple Bacteria	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER16178 07/14/2011 Ding	SC-22.13	Plant Vascular Biology 2010, Columbus, OH - July 24-28, 2010	4
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-06ER15833 12/31/2012 DiMauro	SC-22.11	Imaging of Electronic Wave Functions During Chemical Reactions	222
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER15881 07/31/2011 Grotewold	SC-22.13	Engineering Phenolic Metabolism in the Grasses Using Transcription Factors	70
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER15896 08/14/2013 Ozkan	SC-22.12	Investigation of the Nature of Active Sites on Heteroatom-Containing Carbon Nano-Structures for Oxygen Reduction	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25749 09/14/2011 Panda	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	199
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER20042 07/31/2013 Krzycki	SC-22.13	Transmethylation reactions during methylotrophic methanogenesis in methanogenic Archaea	165
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25755 09/14/2012 Panda	SC-21.1	Center for Programming Models for Scalable Parallel Computing	300
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25779 12/14/2011 Shen	SC-21.1	SCIDAC Institute for Ultrascale Visualization	150

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OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25775 09/30/2012 Catalyurek	SC-21.1	SciDAC Institute: Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25906 08/31/2012 Keyfitz	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	90
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25901 07/31/2012 Calyam	SC-21.1	Sampling Approaches for Multi-Domain Internet Performance Measurement Infrastructures to Better Serve Network Control and Management	147
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER25850 07/31/2012 Sadayappan	SC-21.1	Scalable Fault Tolerance Runtime Technology for Petascale Computers	130
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26018 08/31/2013 Shen	SC-21.1	An Information-theoretic Framework for Enabling Extreme-scale Science Discovery	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER25995 08/31/2013 Sadayappan	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	75
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26040 08/31/2013 Sadayappan	SC-21.1	A Polyhedral Transformation Framework for Compiler Optimization	128
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER40690 11/30/2013 Kass	SC-25	Research in Elementary Particle Physics	2,268
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-95ER40900 12/31/2012 Collings	SC-25	Material, Strands, and Cables for Superconducting Accelerator Magnets	241
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER46740 08/14/2013 Randeria	SC-22.22	Theoretical Investigations of Single Particle Spectroscopies of Novel Materials	105
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER41609 11/14/2011 Kagan	SC-25	Development of Single Crystal Chemical Vapor Deposition Diamonds for Detector Applications	60
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-09ER41586 11/30/2011 Furnstahl	SC-26.1	Building a Universal Nuclear Energy Density Functional	88
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41687 06/14/2013 Heinz, Kovchegov	SC-26.1	Nuclear Theory for High Energy Collisions	370
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41684 05/31/2013 Heinz	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	45
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41648 06/14/2013 Sumption	SC-25	RECOVERY ACT: SRF-Fundamental Study of Micro-Defects in Electropolished EB-Welded and Hydroformed SRF Accelerating Structures	600



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-03ER46054 06/14/2013 Hammel	SC-22.21	Nanoscale Understanding of Exchange Bias and Spin Wave Manipulation Using Advanced MRFM Imaging Techniques	190
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-99ER45795 12/31/2013 Wilkins	SC-22.22	Modeling Dynamically and Spatially Complex Materials	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46427 08/31/2013 Wu	SC-22.22	Fabricating Highly Efficient Photocathodes for p-type Dye-sensitized Solar Cells	174
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46423 12/31/2013 Trivedi	SC-22.22	Orbitally Controlled Magnetism and Transport in Oxide Heterostructures: Quantum Simulations and Nanoscale Imaging	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46424 04/30/2012 Trivedi	SC-22.22	Interaction Effects in Quasi-One-Dimensional Electron Systems	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46567 06/30/2012 Mills	SC-22.22	Mechanisms and Modeling of High Output Shape Memory Alloys	414
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46595 05/14/2012 Yang	SC-22.22	Optical Study of Spin Dynamics in Semiconductor Nanowires	200
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER46533 12/31/2011 Lemberger	SC-22.22	Experimental Study of Severely Underdoped Ultrathin Cuprate Films	85
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46317 07/31/2013 Smith	SC-22.22	Spin-Polarized Scanning Tunneling Microscopy Studies of Nanoscale Magnetic and Spintronic Nitride Systems	160
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46300 11/30/2011 Castillo	SC-22.22	Fluctuations in the Slow Dynamics of Glasses and Granular Systems	103
OHIO UNIVERSITY Athens, OH	DE-FG02-02ER46012 09/14/2014 Hla	SC-22.22	Investigation and Manipulation of Nanoscale Molecular Superconductivity	125
OHIO UNIVERSITY Athens, OH	DE-FG02-10ER41678 05/31/2015 Elster	SC-26.1	Advancing the Theory of Nuclear Reactions With Rare Isotopes: From the Laboratory to the Cosmos	11
OHIO UNIVERSITY Athens, OH	DE-FG02-93ER40756 10/31/2013 Elster	SC-26.1	Nuclear Dynamics and Astrophysics in Few- and Many-Body Systems	361
OHIO UNIVERSITY Athens, OH	DE-FG02-88ER40387 11/30/2011 Brune	SC-26.1	Studies of Nuclear Astrophysics, Structure, and Reactions with Neutrons, Radioactive Beams, and Other Probes	340
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-03ER15379 10/31/2011 Higgins	SC-22.12	Kinetic Complexity of Mineral-Water Interface Reactions Relevant to CO2 Sequestration: Atomic-Scale Reactions to	110

Total for OH :

13,020

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
LANGSTON UNIVERSITY Langston, OK	DE-FG02-99ER41109 05/14/2012 Snow	SC-25	Langston University - High Energy Physics (LU-HEP)	70
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER41306 04/30/2013 Nandi	SC-25	Theoretical Research in Weak, Electromagnetic, and Strong Interactions	305
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-96ER20215 08/31/2014 Mort	SC-22.13	The Structure of Pectins	116
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-08ER15968 07/14/2014 Burnap	SC-22.13	Genetic and Metabolic Integration of the Carbon Concentrating Mechanism with the Light and Dark Reactions of Oxygenic	135
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER46124 02/28/2013 Xie	SC-22.22	Charge, Spin and Heat Transport in Low-Dimensional Systems	90
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-08ER64636 08/14/2011 Doust	SC-23.2	Development of Genomic and Genetic Tools for Foxtail Millet, and Use of These Tools in the Improvement of Biomass Production	95
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER64992 07/14/2013 Zhou	SC-23.2	From Community Structure to Functions: Metagenomics-Enabled Predictive Understanding of Temperature Sensitivity of Soil Carbon Decomposition to Climate	1,998
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER41517 08/31/2012 Baron	SC-25	Spectroscopic Studies of SNe Ia: Finding the Right Model	55
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-09ER46618 08/14/2012 Striolo	SC-22.21	Electrolytes at Solid-Water Interfaces: Theoretical Studies for Practical Applications	15
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46725 07/14/2013 Resasco	SC-22.21	Center for Interfacial Reaction Engineering	2,379
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46706 06/30/2013 Yang	SC-22.21	Interband Cascade Photovoltaic Cells	580
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64239 08/31/2012 Resasco	SC-23.2	Application of Single-Walled Carbon Nanotubes, The University of Oklahoma	972
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-05ER64062 05/31/2012 Lamb	SC-23.1	Southern Great Plains Site Scientist	400
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64319 08/31/2011 Luo	SC-23.1	Data-Model Assimilation at the FACE and AmeriFlux Sites Toward Predictive Understanding of Carbon Sequestration at	0
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER64383 03/31/2012 Zhou	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER15769 07/31/2012 Krumholz	SC-22.13	Genes Needed for H2 Production by Sulfate Reducing Bacteria	220
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-96ER20214 06/14/2014 McInerney	SC-22.13	Protein Complexes Involved in Syntrophic Hydrogen Production and Electron Transfer	184
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-04ER41305 04/30/2013 Skubic, Milton	SC-25	Experimental Physics Investigations Using Colliding Beam Detectors at Fermilab, Cornell & LHC; Nonperturbative Quantum	829
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-07ER54931 07/14/2012 Brennan	SC-24.2	Hot Particle and Turbulent Transport Effects on Resistive Instabilities	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER55067 05/31/2013 Brennan	SC-24.2	Development and Application of Predictive Tools for MHD Stability Limits in Tokamaks	242
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-08ER54950 01/31/2012 Brennan	SC-24.2	Flow Shear Effects in the Onset Physics of Resistive MHD Instabilities in Tokamaks	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER65045 09/14/2012 Crunkleton	SC-23.2	Development of Green Fuels from Algae - The University of Tulsa	729
Total for OK :				9,414

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
GALOIS, INC. Portland, OR	DE-FC02-10ER26000 08/31/2013 Sottile	SC-21.1	COMPOSE - HPC: Software Composition for Extreme Scale Computational Science and Engineering	70
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-10ER64953 05/31/2013 Tebo	SC-23.1	Manganese Redox Mediation of UO2 Stability and Uranium Fate in the Subsurface: Molecular and Meter Scale Dynamics	316
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-09ER64806 07/14/2012 Tratnyek	SC-23.1	Technetium Reduction and Permanent Sequestration by Abiotic and Biotic Formation of Low-Solubility Sulfide Mineral Phases	212
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64759 05/14/2012 Colwell	SC-23.1	Microbial Activity and Precipitation in at Solution-Solution Mixing Zones in Porous Media	193
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64630 08/14/2012 Mockler	SC-23.2	A Universal Genome Array and Transcriptome Atlas for Brachypodium Distachyon.	200
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64665 09/14/2012 Strauss	SC-23.2	Epigenomics of Development in Populus	400
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64860 08/31/2012 Haggerty	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	52
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65000 07/14/2013 Myrold	SC-23.2	Meta-"omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils	338
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65076 09/14/2013 Law	SC-23.1	The Effects of Climate, Forest Age, and Disturbance History on Carbon and Water Processes at Ameriflux Sites Across Gradients in Pacific Northwest Forests	349
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER64307 08/31/2012 Law	SC-23.1	Enhancing the Precision and Accuracy Within and Among Ameriflux Site Measurements	499
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER63911 09/14/2011 Law	SC-23.1	AmeriFlux Measurement Network: Science Team Research	199
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-97ER41026 12/31/2011 Loveland	SC-26.1	Studies of Heavy Nuclei Produced in Low and Intermediate Energy Nuclear Collisions	160
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER25980 04/14/2015 Chiang	SC-21.1	RECOVERY ACT - CAREER: Sustainable Silicon - Energy-Efficient VLSI Interconnect for Extreme-Scale Computing	750
OREGON, UNIVERSITY OF Eugene, OR	DE-FC02-10ER26005 08/31/2013 Malony	SC-21.1	Vancouver: Designing a Next-Generation Software Infrastructure for Productive Heterogeneous Exascale Computing	174
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER25933 09/14/2012 Malony	SC-21.1	MOGO: Model-Oriented Global Optimization of Petascale Applications	174

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-08ER25846 07/31/2011 Malony	SC-21.1	Extreme Performance Scalable Operating Systems: FastOS	158
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER25826 05/14/2011 Malony	SC-21.1	Knowledge-Based Parallel Performance Technology for Scientific Application Competitiveness	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40969 06/30/2014 Brau	SC-25	Task A: Theory of Elementary Particles; Task B Experimental High Energy Physics	1,461
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40972 04/30/2012 Hwa	SC-26.1	Physics of Nuclear Collisions at High Energy	196
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER41383 08/31/2012 Brau	SC-25	University-Based Detector Research & Development for the International Linear Collider	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER15907 08/31/2013 Lonergan	SC-22.13	Photovoltaic and Photochemical Properties of Conjugated Ionomer Junctions (new title)	192
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER15634 12/31/2014 Kellman	SC-22.11	Dynamical Analysis of Highly Excited Spectra	130
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER41623 08/14/2012 Brau	SC-25	Sid Detector R&D	895
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-04ER46158 08/31/2012 Kevan	SC-22.22	Manybody Interactions in Magnetic Films and Nanostructures	160
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-03ER46061 07/14/2012 Richmond	SC-22.23	Research Project on the Recruitment, Retention, and Promotion of Women in the Chemical Sciences	160
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER45557 02/28/2014 Richmond	SC-22.23	Molecular Processes Underlying the Structures and Assembly of Thin Films and Nanoparticles at Complex Interfaces	260
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-10ER65043 07/31/2011 Bohannan	SC-23.2	Travel for Ecological Society of America August 2010 Meeting Symposium: "Microbial Gate-Keepers and Climate Change"	15
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER64719 12/31/2012 Bridgham	SC-23.1	Climate Effects on Plant Range Distributions and Community Structure of Pacific Northwest Prairies	370
PARATOOLS, INC. Eugene, OR	DE-FC02-07ER54910 02/14/2012 Malony	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	80
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-06CH11404 06/30/2012 Wamser	SC-23	Solar Photovoltaic Test Facility System	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-08ER64515 12/31/2011 Khalil	SC-23.1	Closing the Gaps in the Budgets of Methane and Nitrous Oxide	533
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-07ER46406 06/30/2013 Koenenkamp	SC-22.21	High-Resolution Photoemission Electron Microscopy	220
			Total for OR :	8,916

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
AGRICULTURE, U.S. DEPT. OF Newtown Square, PA	DE-AI02-07ER64355 03/14/2012 Hollinger	SC-23.1	Using Model Analyses & Surface-Atmosphere Exchange Measurements from the Howland AmeriFlux Supersite in Maine, USA, to Improve Understanding of Forest Ecosystem	90
.S. DEPT. OF - AGR RES SERVICE Wyndmoor, PA	DE-AI02-07ER64454 07/31/2011 Buckler	SC-23.2	Developing Association Mapping in Polyploid Perennial Biofuel Grasses	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER45893 06/30/2014 De Graef	SC-22.21	Materials Applications of Aberration-Corrected Lorentz Microscopy	133
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-08ER46481 03/14/2012 Majetich	SC-22.22	Dipolar Ferromagnets for Magnetocaloric Effect Nanocomposites	96
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-10ER46760 02/29/2012 Pistorius	SC-22.23	Accelerated Corrosion of Stainless Steel in Thiocyanate-containing Solutions	200
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER46645 09/14/2012 Suter	SC-22.21	SISGR - Quantifying Damage Accumulation During Ductile Plastic Deformation Using Synchrotron Radiation	400
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER16078 09/14/2012 Gellman	SC-22.12	Molecular-Level Design of Heterogeneous Chiral Catalysts	660
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-10ER16141 04/14/2015 Kitchin	SC-22.12	RECOVERY ACT - Multifunctional Oxygen Evolution Electrocatalyst Design and Synthesis	600
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-07ER15919 02/14/2012 Kitchin	SC-22.12	Modeling Coverage Dependence in Surface Reaction Networks	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER25918 09/14/2012 Schneider	SC-21.1	Machine Learning for Massive Scale Cosmology	611
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER25438 12/14/2010 Gurtin	SC-21.1	Continuum Mechanical and Computational Aspects of Material Behavior	68
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-87ER40315 11/30/2013 Franklin	SC-26.1	Experimental Medium Energy Physics	1,019
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-91ER40682 10/31/2012 Ferguson, Vogel	SC-25	Research in Experimental and Theoretical High Energy Physics	1,400
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-07ER46473 08/31/2013 Gogotsi	SC-22.23	Low Temperature Synthesis of Carbide-derived-carbons from Binary and Ternary Carbides in the Si-Ti-C System:	150
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-00ER41134 06/30/2012 Lane	SC-25	Neutrino Physics	263

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
NAL ADVANCEMENT ALLIANCE, INC. Philadelphia, PA	DE-FG02-05CH11302 12/31/2012 Hamm, Nicholas	SC-23	Center for Development of Math, Science and Technology Understanding	0
NAL ADVANCEMENT ALLIANCE, INC. Philadelphia, PA	DE-FG02-10ER65005 09/14/2011 Nicholas	SC-23.2	Educational Advancement Alliance STEM Minority Graduate Program (PA)	4,374
FOX CHASE CANCER CENTER Philadelphia, PA	DE-FG02-09ER64800 07/30/2012 Doss	SC-23.2	Application of Low Dose Radiation Adaptive Response to Control Aging-Related Diseases	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-05ER15720 06/14/2014 Regen	SC-22.12	Hyper-Thin Membranes for Hydrogen Purification	130
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-93ER14350 06/14/2012 Wachs	SC-22.12	Fundamental Surface Structure-Photoactivity Relationships of Semiconductor Mixed Oxides for Splitting	165
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER46548 04/30/2012 Harmer	SC-22.21	Discovering the Role of Grain Boundary Complexions in Materials	160
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-07ER46463 05/14/2013 Jagota	SC-22.23	Bio-Inspired Architectures for Controlled Adhesion, Friction and Surface Compliance	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER54993 05/31/2012 Kritz	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics (SWIM) Project	50
LEHIGH UNIVERSITY Bethlehem, PA	DE-FC02-08ER54985 02/29/2012 Kritz	SC-24.2	Proposed Lehigh University Contribution to the Center for Plasma Edge Simulation (CPES) Project	100
LEHIGH UNIVERSITY Bethlehem, PA	DE-FC02-09ER55019 07/31/2011 Kritz	SC-24.2	Fusion Simulation Program (FSP)	120
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-09ER55022 07/14/2012 Schuster	SC-24.2	Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial Plasma Flow Profiles	67
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-92ER54141 11/30/2012 Kritz	SC-24.2	Predicted Integrated Modeling of Heated Tokamak Plasmas	284
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-10ER46698 04/30/2014 Jain	SC-22.23	Laser Fabrication of Active Single-Crystal Architecture in Glass	175
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-10ER65021 09/14/2012 Coulter	SC-23.2	Energy Systems Engineering Institute at Lehigh University	486
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64732 04/30/2013 Fisher-Vanden	SC-23.1	Factors Influencing Energy Use and Carbon Emissions in China	19



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64701 07/14/2012 de OliveiraBuanafina	SC-23.2	Identifying Genes Controlling Ferulate Cross-Link Formation in Grass Cell Walls	187
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64615 08/14/2012 Mueller	SC-23.1	Release of Aged Contaminants From Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive	83
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64641 08/14/2012 Wagener	SC-23.1	A Framework for Probabilistic Projections of Energy-Relevant Streamflow Indicators Under Climate Change Scenarios for the US	130
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65053 08/31/2013 Tien	SC-23.2	Imaging Lingin Degradation: Bio-prospecting for New Enzymes for Use in Biofuel Production	779
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64859 08/31/2012 Singha	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	70
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65082 08/31/2013 Forest	SC-23.1	Linking the Uncertainty of Low Frequency Variability in Tropical Forcing in Regional Climate Change	394
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65087 08/31/2013 Burgos	SC-23.1	Reactivity of Iron-Bearing Phyllosilicates with Uranium and Chromium Through Redox Transition Zones	514
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER46159 05/31/2014 Liu	SC-22.22	Engineering of Mixed Pairing and Non-Abelian Majorana States of Matter in Chiral p-wat Superconductor Sr2Ru04 and	152
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER41631 08/31/2012 Stasto	SC-26.1	QCD Description of Hadronic Interactions at High Energies	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER41460 11/14/2012 Gamberg	SC-26.1	Transverse Spin and Momentum Structure of Hadrons in QCD	42
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER41560 08/14/2011 Gronwall	SC-25	Lyman Alpha Emitting Galaxies at 2<.z<.3: Towards a Calibrated Probe of Dark Energy	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER41689 08/31/2012 Unlu	SC-26.2	Development of Innovative Radioactive Isotope Production Techniques at the Penn State University Radiation Science and	449
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46531 11/14/2011 Li	SC-22.22	Studies of Interband Modes and Fermi Surface Features in Very Clean MgB2 Films	90
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46483 12/14/2012 Schaak	SC-22.23	Chemical Routes to Intermetallic Superconductors	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER46222 09/14/2014 Golbeck	SC-22.23	A Hybrid Biological/Organic Half-Cell for Generating Dihydrogen	597

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46417 06/30/2013 Chen	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures - Phase Field Modeling	143
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46414 08/14/2013 Fichthorn	SC-22.23	Forces, Crystallization, and Assembly in Nanoparticle Suspensions	111
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46409 08/31/2013 Colby	SC-22.23	Conduction Mechanisms and Structure of Ionomeric Single-Ion Conductors	445
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46410 08/31/2014 Zhang	SC-22.23	Giant Electrocaloric Effect in Ferroelectric Polymers with Tailored Polar-Nanostructures	297
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER64058 05/31/2014 Verlinde, Harrington	SC-23.1	North Slope Site Scientist Team	390
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FC02-06ER64157 11/30/2011 Davis	SC-23.1	Northeastern Regional Center of the National Institute for Climatic Change Research	1,690
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64570 06/14/2012 Harrington	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	49
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER46656 09/14/2012 Lueking	SC-22.23	SISGR- Hydrogen Caged in Carbon-Exploration of Novel Carbon-Hydrogen Interactions	340
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46744 08/14/2013 Jain	SC-22.22	Theory of Topological Quantum Numbers in Low Dimensions	125
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46768 05/31/2013 Schiffer	SC-22.22	Exploration of Artificial Frustrated Magnets	175
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-02ER15332 08/31/2012 Ma	SC-22.13	Analysis of Anther Cell Differentiation	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13295 11/30/2012 Sen	SC-22.12	Transition Metal Mediated Transformations of Small Molecules	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13179 04/30/2014 Cosgrove	SC-22.13	Molecular Mechanisms of Plant Cell Wall Loosening	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-92ER14258 04/30/2012 Castleman, Jr.	SC-22.11	Elucidating the Molecular Level Mechanisms of Oxidation Reactions Effected by Heterogeneous Catalysts	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-89ER14020 04/14/2012 Maroncelli	SC-22.13	Solvation and Charge Transfer in Ionic Liquids	175

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15911 08/31/2013 Mallouk	SC-22.13	Nanostructured Photocatalytic Water Splitting Systems	230
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER15803 06/30/2012 Winograd	SC-22.12	Chemical Imaging With Cluster Ion Beams and Lasers	393
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15675 08/31/2014 Brantley	SC-22.12	An Investigation of Roughness and Weathering at the Bedrock-Regolith Interface	252
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER15986 08/31/2014 Williams	SC-22.13	Tuning Photochemical Function of Multimetallic Assemblies Linked by Artificial Oligopeptide Scaffolds	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-93ER40771 12/31/2013 Strikman	SC-26.1	Theoretical Studies in High Energy Nuclear Physics	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER26036 12/31/2013 Du	SC-21.1	Collaborative Research: Mathematical and Numerical Analyses of Peridynamics or Multiscale Materials Modeling	50
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-90ER40577 12/31/2011 Collins	SC-25	Theoretical Studies in Elementary Particle Physics	185
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-95ER20198 08/14/2014 Ferry	SC-22.13	New Perspectives on Acetate and One-Carbon Metabolism in the Methanoarchaea: Carbonic Anhydrase	182
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-94ER20137 03/31/2012 Bryant	SC-22.13	Light Energy Transduction in Green Sulfur Bacteria	277
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-98ER20314 08/31/2013 Golbeck	SC-22.13	The Type I Homodimeric Reaction Center in <i>Heliobacterium modesticaldium</i>	590
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER25684 08/31/2011 Maranas	SC-21.1	Development of Computational Tools for Metabolic Models Curation, Flux, Elucidation and Strain Design	413
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25926 09/14/2012 Kandemir	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership Class Architectures	139
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25872 08/31/2012 Maranas	SC-21.1	Multiscale Simulation for Dynamics Evolution and Structure Formation in Systems Comprised of Chain Molecules	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER25862 08/14/2014 Berlyand	SC-21.1	Finite Dimensional Approximations for Continuum Multiscale Problems	105
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-91ER20052 07/30/2014 Daldal	SC-22.13	Membrane-Attached Electron Carriers in Photosynthesis and Respiration	237

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-88ER40479 12/31/2011 Beier	SC-26.1	The Low Energy Neutrino Physics Research Program at Penn	650
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-95ER40893 10/31/2011 Williams	SC-25	High Energy Physics Research	3,519
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15719 12/31/2011 Sneddon	SC-22.12	Mechanistic Studies of Activated Hydrogen Release from Amine Boranes	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER15920 08/14/2013 Rappe	SC-22.12	Understanding, Harnessing, and Tuning the Catalytic Chemistry of Nonstoichiometric Oxide Surfaces	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-85ER13350 05/31/2012 Gorte	SC-22.12	Thermodynamic Properties of Supported Catalysts	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-87ER13792 06/30/2014 Lester	SC-22.11	Intermolecular Interactions of Hydroxyl Radicals on Reactive Potential Energy Surfaces	217
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER15605 08/14/2013 Vohs	SC-22.12	Fundamental Studies of the Steam Reforming of Alcohols on PdZnO and Co/ZnO Catalysts	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-09ER46661 09/14/2012 Kagan	SC-22.23	SISGR - Bi-Continuous Multi-Component Nanocrystal Superlattices for Solar Energy Conversion	1,031
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46223 09/14/2014 Dutton	SC-22.23	Modular Designed Protein Constructions for Solar Generated H2 From Water	245
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER46431 08/14/2013 Rappe	SC-22.22	First-principles Investigations of the Physics of New Semiconducting Ferroelectrics for Solar Light Absorption and Carrier Separation	250
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-08ER46522 08/14/2013 Yildirim	SC-22.21	From Fundamental Understanding to Predicting New Nanomaterials for High-Capacity Hydrogen Storage	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-84ER45118 01/31/2012 Mele	SC-22.22	Electronic and Piezoelectric Phenomena in Nanostructures	105
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46199 04/30/2013 Liu	SC-22.22	Anharmonic and Thermal Effects Associated with Jammed Solids	120
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-98ER45702 06/30/2013 Vitek	SC-22.22	Combined Atomistic and Mesoscopic Study of Deformation of Body-Centered-Cubic Transition Metals: Effects of Alloying and Magnetism	275
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-00ER45813 05/31/2014 Bonnell	SC-22.21	Local Properties at Nanosized Interfaces and Defects	135

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-99ER45780 12/14/2011 Snoke	SC-22.22	Indirect Excitons in Coupled Quantum Wells: New Studies with Dark Excitons	119
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-90ER45438 11/30/2011 Balazs	SC-22.23	Designing Colonies of Communicating Microcapsules that Exhibit Collective Behavior	120
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-02ER45998 11/14/2011 Balazs	SC-22.23	Theoretical Modeling, Synthesis and Characterization of Self-Healing Coatings	293
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-10ER41656 04/14/2015 Newman	SC-25	RECOVERY ACT: Overcoming Photometric Redshift Systematics in Dark Energy Experiments	600
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46446 07/31/2012 Yang	SC-22.21	Multiscale Atomistic Simulation of Metal-Oxygen Surface Interactions: Methodological Development, Theoretical Investigation, and Correlation with	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46545 07/14/2014 Wiezorek	SC-22.21	Electron Density Determination, Bonding and Properties of Tetragonal Ferromagnetic Intermetallics	150
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46421 12/14/2011 Levy	SC-22.22	Development of Spintronic Bandgap Materials	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46430 08/31/2013 Waldeck	SC-22.22	Nanocrystal-Based Dyads for Solar to Electric Energy Conversion	260
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER46662 09/14/2012 Kumta	SC-22.23	SISGR - Fundamental Experimental and Theoretical Studies on a Novel Family of Oxides Catalyst Supports for Water Electrolysis	250
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46586 07/31/2012 Liang	SC-23.1	The Role of Vegetation, Surface, and Subsurface Processes on Mega Drought and its Implications to Climate Change	102
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER15066 06/30/2012 Jordan	SC-22.11	Coordinating Experiment and Theory to Understand How Excess Electrons Are Accomodated by Water Networks Through Model Studies in the Cluster Regime	217
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER16056 08/14/2012 Petek	SC-22.11	Studies of Surface Adsorbate Electronic Structure and Femtochemistry at the Fundamental Length and Time Scales	651
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-10ER16165 05/31/2013 Johnson	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of CO2	71
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-91ER40646 10/31/2011 Paolone, Shepard	SC-25	Experimental Particle Physics	1,006
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER41135 11/30/2013 Swanson	SC-26.1	Studies of the Quark and Gluon Structure of Nuclear and Hadronic Matter	97

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-04ER25618 06/30/2014 Yotov	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	81
SUSQUEHANNA UNIVERSITY Selinsgrove, PA	DE-FG02-10CH20003 06/30/2011 Clarke	SC-23	Equipment Purchases for Susquehanna University's New Science Center	972
SWARTHMORE COLLEGE Swarthmore, PA	DE-FG02-00ER54604 11/30/2013 Brown	SC-24.2	Relaxation of Three-Dimensional Magnetic Structures: SSX Experiments and Experimentally-Validated Simulations	207
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-94ER40844 03/31/2012 Meziani	SC-26.1	Nuclear Research Using the Electromagnetic Probe	347
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-05ER25672 12/31/2011 Szyld	SC-21.1	Krylov Subspace and Schwarz Methods for PDEs, Control, and Other Problems	180
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-09ER16000 12/14/2011 Wayland	SC-22.12	Catalytic Hydrogenation of Carbon Monoxide and Hydrocarbon Oxidations	100
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-08ER15983 02/14/2014 Matsika	SC-22.11	Combining High Level Ab Initio Calculations with Laser Control of Molecular Dynamics	80
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-96ER14644 11/30/2011 Strongin	SC-22.12	Reactivity of Iron-Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary Experimental Approach	96
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER46710 06/14/2013 Iavarone	SC-22.21	Vortex Matter in Confined Superconductors and Mesoscopic Hybrid Heterostructures	205
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER46694 01/31/2012 Xi	SC-22.22	Raman Spectroscopic Study of Coupling Between Magnetic and Ferroelectric Orders in Nanoscaled Thin Films Superlattices	193
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-01ER45872 01/31/2014 Riseborough	SC-22.22	Strongly Correlated Electron Systems	75
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER41646 06/14/2013 Xi	SC-25	RECOVERY ACT: SRF-Magnesium Diboride Thin Films for Superconducting RF Cavities	800
Total for PA :				39,124

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## Listing of Active Awards for State (PR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PUERTO RICO, UNIVERSITY OF Mayaguez, PR	DE-FG02-97ER41045 05/31/2013 Lopez	SC-25	UPR/Mayaguez High Energy Physics	322
PUERTO RICO, UNIVERSITY OF San Juan, PR	DE-FG02-08ER46526 08/31/2014 Katiyar	SC-22.21	Development and Understanding of Multifunctional Nanostructures for Spintronics and Magnetoelectrics Applications	490
Total for PR :				812

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Listing of Active Awards for State (RI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER64807 08/31/2011 Weber	SC-23.2	Fuel Cell Research	1,458
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER64757 05/14/2012 Lawrence	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	130
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER15452 10/31/2012 Weber	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	145
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER15937 06/30/2014 Rose-Petruck	SC-22.11	Spatial Frequency X-ray Heterodyne Imaging of Micro and Nano structured Materials and their Time-resolved Dynamics	140
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER16011 04/14/2012 Diebold	SC-22.12	Ultrasonic Distillation, Thermal Diffusion, and Photoacoustics	135
BROWN UNIVERSITY Providence, RI	DE-FG02-91ER40688 10/31/2012 Cutts	SC-25	A Research Program in Theoretical and Experimental High Energy Physics	2,093
BROWN UNIVERSITY Providence, RI	DE-FG02-98ER25346 08/28/2011 Hesthaven	SC-21.1	Parallel High Order Accuracy Methods (Deterministic and Stochastic) Applied to Non-Linear Equations	149
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER25818 08/31/2013 Karniadakis	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in Porous Media	99
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER25863 08/14/2014 Shu	SC-21.1	High Order Discontinuous Galerkin Method and Applications	156
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25891 08/31/2012 Dupuis	SC-21.1	Large Deviation Methods for the Analysis and Design of Monte Carlo Schemes in Physics and Chemistry	0
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25923 09/14/2012 Karniadakis	SC-21.1	Stochastic Nonlinear Data-reduction Methods with Detection and Prediction of Critical Rare Event	99
BROWN UNIVERSITY Providence, RI	DE-FG02-01ER45913 11/30/2011 Chason	SC-22.23	Mechanisms of Sputter Ripple Formation: Coupling Among Energetic Ions, Surface Kinetics, Stress and Composition	124
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER46387 12/31/2013 Nurmikko	SC-22.22	Optically Active 3-Dimensional Semiconductor Quantum DOT Assemblies in Heterogeneous Nanoscale Hosts	0
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER46644 09/14/2012 Nurmikko	SC-22.21	Optoacoustic Microscopy for Investigation of Material Nanostructures - Embracing the Ultrasmall, Ultrafast, and the Invisible	200
BROWN UNIVERSITY Providence, RI	DE-FG02-10ER46771 08/31/2013 Sheldon	SC-22.22	Understanding and Controlling Toughening Mechanisms in Nanotube Reinforced Ceramic Coatings	220



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16185 08/31/2011 Benning	SC-22.13	2011 Plant Lipids: Structure, Metabolism & Functions, January 30 - February 4, 2011	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16187 09/14/2011 Wang	SC-22.11	2011 GRC on Clusters, Nanocrystals & Nanostructures, July 24-29, 2011	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16188 09/14/2011 Anderson	SC-22.11	2011 Gaseous Ions Gordon Research Conference, Feb 27 - Mar 4, 2011, Galveston, TX	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16172 07/14/2011 Wilks	SC-22.13	Chemistry and Biology of Tetrapyrroles Gordon Research Conference, July 25-30, 2010	5
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16173 07/14/2011 Martinez	SC-22.11	2010 GRC Atomic and Molecular Interactions 7/18 - 7/23	8
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16183 07/14/2011 Sussman	SC-22.13	2010 Plant Molecular Biology Gordon Research Conference, July 18-23, 2010	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16163 04/30/2011 Lockemeyer	SC-22.12	2010 Inorganic Chemistry Gordon Conference June 20 - 25, 2010	10
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER46736 08/14/2013 Lucht	SC-22.21	Improving the Calendar Life and Safety of Lithium Ion Batteries: Development of Novel Electrolytes and Additives	545
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER65047 09/14/2012 Rothstein	SC-23.2	Unviersity of Rhode Island Regional Earth System Center	729
Total for RI :				6,473

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CITADEL, THE Charleston, SC	DE-FG02-10ER41694 08/14/2013 Yost	SC-25	Precision Studies of Hadronic and Electro-Weak Interactions for Collider Physics	28
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46364 01/31/2012 Ogale	SC-22.21	Surface Anchoring of Nematic Phase on Carbon	0
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-06ER46342 08/14/2013 Chumanov	SC-22.23	Asymmetric Hybrid Nanoparticles (AHNs)	154
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46456 12/31/2011 Perahia	SC-22.21	From Interfacial Region on Ionic Polymers, Experimental-Computational Studies	100
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-08ER46511 03/14/2012 Luo	SC-22.21	Grain Boundary Complexions and Transitions in Doped Silicon	95
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-05ER15718 06/14/2011 Creager	SC-22.12	Fluoropolymers, Electrolytes, Composites and Electrodes	250
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-10ER64966 06/14/2013 Powell	SC-23.1	Development of a Self-Consistent Model of Plutonium Sorption: Quantification of Sorption Enthalpy and Ligand-Promoted	334
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-09ER64920 09/28/2012 Bottum	SC-23.2	Clemson University CyberInstitute	486
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-09ER64853 08/14/2012 Moysey	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for	32
MORRIS COLLEGE Sumter, SC	DE-FG02-10CH20025 09/29/2013 Ali	SC-23	STEM Infrastructure Improvement	1,458
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-95ER40910 05/31/2013 Rosenfeld, Purohit	SC-25	Experimental Particle Physics	754
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER41621 07/31/2012 Gudkov	SC-26.1	Fundamental Neutron Physics: Theory and Analysis	102
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-99ER45763 04/14/2014 Kunchur	SC-22.22	Dissipative and Fast-Timescale Phenomena in Superconductors	99
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46616 08/14/2012 Wang	SC-22.21	1D and 2D Assembly of Bionanoparticles for Materials Development	15
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46617 08/14/2012 Vogt	SC-22.21	Structure-Composition-Property Relationships of Complex Bismuth Oxide Base Photocatalysts	10

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46581 07/31/2014 Reifsnider	SC-22.13	Science Based Nano-Structure Design and Synthesis of Heterogeneous Functional Materials for Energy Systems -- EFRC	2,355
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-07ER64431 07/14/2011 Ju	SC-23.1	New Grid and Discretization Technologies for Ocean and Ice Simulations	36
WOFFORD COLLEGE Spartanburg, SC	DE-FG02-09ER64802 07/31/2011 Savage	SC-23.1	Uranium Attenuation and Release in Porous Media Related to Geochemical Gradients	62
Total for SC :				6,370

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 Listing of Active Awards for State (SD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DAKOTA SCHOOL OF MINES & TECH. Rapid City, SD	DE-FG02-08ER46503 06/30/2012 Ahrenkiel	SC-22.21	Lattice-Mismatched III-V Epilayers for High-Efficiency Photovoltaics	15
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER41718 08/31/2013 Guisepe	SC-26.1	Cosmogenic Background and Shielding R&D for a Ge Neutrinoless Double-Beta Decay Experiment	69
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER46709 06/30/2013 Mei	SC-22.21	Crystal Growth and Detector Development at Homestake for DUSEL Experiments	2,378
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-08ER64624 12/31/2012 Hoefelymeyer	SC-23.2	USD Catalysis Group for Alternative Energy	0
Total for SD :				2,462

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Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
TION INTERNATIONAL ASSOC INC. Oak Ridge, TN	DE-FG02-10ER46715 07/14/2013 Coppock	SC-22.21	Exploiting the Use of Social Networking to Facilitate Collaboration in the Scientific Community	554
MEMPHIS, UNIVERSITY OF Memphis, TN	DE-FG02-09ER25904 08/31/2012 Wu	SC-21.1	Towards a Scalable and Adaptive Application Support Platform for Large-Scale Distributed E-Sciences in High-Performance Network Environments	0
MIDDLE TENNESSEE STATE UNIV. Murfreesboro, TN	DE-FG02-10ER65002 09/14/2012 MacDougall	SC-23.2	Computational Modeling of Drug-Resistant Bacteria	889
SPECTRA TECH, INC. Oak Ridge, TN	DE-AC02-09CH11469 04/30/2012 Hale	SC-22.21	Technical Support Service for the Office of Science (SC) Basic Energy Sciences (BES)	57
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-96ER40955 02/28/2014 Kozub	SC-26.1	Nuclear Physics with Radioactive Ion Beams	58
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-89ER40530 03/31/2013 Ayik	SC-26.1	Studies of Fluctuation Processes in Nuclear Collisions	37
TENNESSEE, U. OF HEALTH SC. CTR. Memphis, TN	DE-FG02-08ER64698 09/14/2011 Kabalka	SC-23.2	Development of Solid State Reagents for Preparing Radiolabeled Imaging Agents	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-91ER40627 03/31/2013 Kamyshkov	SC-25	Elementary Particle Interactions	786
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40963 02/14/2014 Nazarewicz	SC-26.1	Theoretical Nuclear Structure	192
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-03ER41258 04/30/2012 Greene	SC-26.1	Fundamental Neutron Physics	510
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-06ER41407 12/31/2011 Papenbrock	SC-26.1	JUSTIPEN: Japan US Theory Institute for Physics with Exotic Nuclei	50
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40982 05/31/2014 Sorensen	SC-26.1	Studies of Hot and Dense Nuclear Matter	285
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40983 02/28/2014 Grzywacz, Jones, Bingham, Riedinger	SC-26.1	Nuclear Spectroscopic Studies with Radioactive and Stable Ion Beams	400
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25748 09/14/2011 Dongarra	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	200
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER20223 07/14/2012 von Arnim	SC-22.13	Eukaryotic Initiation Factor 3 (EIF3) and 5' mRNA Leader Sequences as Agents of Translational Regulation in Arabidopsis	175

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TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25778 12/14/2011 Huang	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25761 12/14/2012 Dongarra	SC-21.1	Performance Engineering Research Center (PERC-3) SciDAC Center for Enabling Technology	385
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER25845 07/14/2011 Dongarra	SC-21.1	Minimizing System Noise Effects for Extreme Scale Scientific Simulation Through Function Delegation	221
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-07ER25801 11/14/2011 Dongarra	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER25971 03/14/2013 Dongarra	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER25987 08/31/2013 Dongarra	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER15259 10/31/2011 Barnes	SC-22.12	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	125
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-02ER15283 02/28/2014 Macek	SC-22.11	Theory of Atomic Collisions and Dynamics	125
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER15723 06/14/2012 Keffer	SC-22.12	A Computational and Experimental Investigation into the Transport Through of Protons near the Electrolyte/Water, Electrolyte/Catalyst and	310
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER41715 08/31/2013 Efremenko	SC-26.1	Search for the Neutrinoless Double Beta Decay	80
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER41700 08/31/2013 Nazarewicz	SC-26.1	FUSTIPEN - France-U.S. Theory Institute for Physics with Exotic Nuclei	35
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-09ER41634 08/31/2012 Grzywacz-Jones	SC-26.1	Spectroscopic Studies Close to 100Sn and 132Sn Using Direct Reactions and Gamma-Ray Measurements	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-09ER41583 11/30/2011 Nazarewicz	SC-26.1	Building a Universal Nuclear Energy Density Functional	260
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER45885 07/31/2012 Musfeldt	SC-22.22	Spectroscopic Investigations of Novel Electronic and Magnetic Solids	135
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46202 05/14/2014 Dai	SC-22.21	Study Magnetic Excitations in Doped Transition Metal Oxides Using Inelastic Neutron Scattering	197

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TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER46528 05/31/2012 Egami	SC-22.21	Neutron Scattering Research Network for EPSCoR States	354
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46370 05/14/2012 Eguiluz	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamic Effects in Correlated Materials	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46363 01/31/2012 Langston	SC-22.21	Scalable Computational Methods for the Analysis of High-Throughput Biological Data	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER46713 06/30/2013 Camden	SC-22.21	Plasmon Mapping in Metallic Nanostructures and its Application to Single Molecule Surface Enhanced Raman Scattering: Imaging Electromagnetic Hot-Spots and .....	420
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER46718 07/31/2013 Grossbeck	SC-22.21	Study of Compatibility of Stainless Steel Weld Joints with Liquid Sodium-Potassium Coolants for Fission Surface Power	534
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65062 08/31/2013 Smith	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	374
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65016 07/31/2012 Loeffler	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	230
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65014 06/30/2013 Pffnner	SC-23.1	Metaproteomics Identifies the Protein Machinery Involved in Metal and Radionuclide Reduction in Subsurface Microbiomes and Elucidates Mechanisms and	307
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER64667 09/14/2011 Chen	SC-23.2	Development of Genomic and Genetic Tools for Foxtail Millet, and Use of These Tools in the Improvement of Biomass Production	85
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-88ER40407 12/31/2012 Hamilton, Ramayya	SC-26.1	Experimental Nuclear Physics	350
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-85ER40226 05/31/2014 Weiler, Kephart	SC-25	Theoretical Investigations in Elementary Particle Physics	260
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-92ER40712 02/28/2013 Maguire	SC-26.1	Relativistic Heavy Ion Experimental Physics	550
VANDERBILT UNIVERSITY Nashville, TN	DE-FC02-06ER41447 09/14/2011 Bapty	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	77
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-96ER40975 05/31/2013 Umar, Oberacker, Ernst	SC-26.1	Microscopic Heavy-Ion Theory	160
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-01ER45916 03/14/2014 Haglund	SC-22.22	Linear and Nonlinear Optical Properties of Metal Nanocomposite Materials	190

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VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-99ER45781 10/31/2013 Tolk	SC-22.22	Ultrafast Studies of Hydrogen and Related Defects in Semiconductors and Oxides	175
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-10ER41713 08/14/2013 Maguire	SC-26.1	Meeting the Computing Needs of the CMS-HI Research Program in the U.S.	1,740
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-05ER46239 08/31/2011 Jennings	SC-22.23	Surface-Directed Fabrication of Integrated Membrane-Electrode Interfaces	100
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER46554 02/14/2012 Pantelides	SC-22.21	Physics of Complex Materials Systems Through Theory and Microscopy / EELS	256
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER64872 09/14/2012 Peterson	SC-23.2	Small Animal SPECT/CT System Based on Position-Sensitive Semiconductor Detectors	0
Total for TN :				12,863



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				FY 2010
ABILENE CHRISTIAN UNIVERSITY Abilene, TX	DE-FG02-03ER41243 05/14/2012 Isenhower	SC-26.1	The Spin and Anti-Quark Structure of the Nucleon	197
BAYLOR UNIVERSITY Waco, TX	DE-FG02-05ER41399 05/31/2012 Dittmann	SC-25	Elementary Particle Physics at Baylor	120
BAYLOR UNIVERSITY Waco, TX	DE-FG02-10ER41692 08/14/2013 Wang	SC-25	Horava-Lifshitz Theory and Applications to Cosmology and Astrophysics	40
FOURTH STATE RESEARCH Austin, TX	DE-FG02-08ER54978 02/14/2014 Bravenec	SC-24.2	A Systematic Method for Verification and Validation of Gyrokinetic Microstability Codes	50
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41518 08/14/2013 Lau	SC-25	A Proposal to Measure the Neutrino Mixing Angle Theta_13 in the Daya Bay Experiment	155
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41521 08/14/2013 Bellwied, Pinsky	SC-26.1	Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC	0
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-08ER46486 07/31/2012 Reiter	SC-22.21	Neutron Compton Scattering as a Probe of Hydrogen Bonded (and other) Systems	141
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER46571 02/28/2013 Jacobson	SC-22.23	Enhanced Mixed Electronic-Ionic Conductors Through Cation Ordering	400
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER55042 08/14/2012 Economou	SC-24.2	Pulsed Plasma With Synchronous Boundary Voltage for Rapid Atomic Layer Etching	244
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER46747 08/31/2013 Halasyamani	SC-22.23	Controlling Magnetic and Ferroelectric Order Through Geometry: Synthesis, Ab Initio Theory, and Characterization of New Multi-Ferroic Fluoride Materials	348
HOUSTON, UNIVERSITY OF Houston, TX	DE-FC02-06ER25759 09/14/2011 Chapman	SC-21.1	Center for Programming Models for Scalable Parallel Computing	200
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER15888 06/30/2014 Thummel	SC-22.13	Further Studies on Photocatalytic Water Decomposition	196
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER16175 08/31/2013 Cheung	SC-22.11	Multiscale Investigation of Thermal Fluctuations on Solar-Energy Conversion	82
NATIONAL BUSINESS MACHINES CORP Austin, TX	DE-FG02-08ER25851 08/14/2011 Van Hensbergen	SC-21.1	HARE-Holistic Aggregated Resource Environment for Million-CPU Systems	199
NATIONAL AERONAUT & SPACE ADM Houston, TX	DE-AI02-10ER64969 05/14/2013 Cucinotta	SC-23.2	Systems Biology Model of Interactions Between Tissue Growth Factors and DNA Damage Pathways: Low Dose Response and	122

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				FY 2010
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-10ER16147 04/14/2013 Cooke	SC-22.12	Experimentally Characterizing the Electronic Structures of f-Electron Systems Using Advanced High Resolution Fourier Transform Microwave Spectroscopies	65
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-05ER15647 08/31/2014 Chapman	SC-22.13	Amidase-Mediated Modulation of N-Acylethanolamine (NAE) Signaling Pathway in Plants	253
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-04ER15508 12/31/2012 Bagus	SC-22.12	The Influence of Reaction Pathways on the Reduction of U(VI) to U (IV): The Role of the Intermediate U (V) Species	69
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-03ER15387 05/14/2014 Cundari	SC-22.12	Modeling of Late Transition Metal Catalysts for Energy Applications	100
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER46312 04/30/2012 Krokhin	SC-22.22	Effective Medium Theory for Periodic Composites	110
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER54883 07/14/2012 Ordonez	SC-24.2	Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	46
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-09ER64812 07/31/2012 Chapman	SC-23.2	Engineering Neutral Lipid Accumulation in Vegetative Tissues of Plants	217
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-08ER64603 07/31/2013 Wilson	SC-23.2	Environmental and Energy Research at the Texas Center for Advanced Scientific Computing and Modeling (CASCaM)	680
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-97ER54452 01/31/2012 Boyd	SC-24.2	The Institute for High Heat Flux Removal: Phase II	201
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-04ER54777 12/14/2011 Huang	SC-24.2	Study of Rotamak Plasmas	458
ROPORTIONAL TECHNOLOGIES, INC. Houston, TX	DE-FG02-08ER64679 09/14/2011 Lacy	SC-23.2	New PET Scanner for Molecular Imaging Based on Innovative Straw Detector Technology	0
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER55032 08/14/2012 Liang	SC-24.2	Relativistic Plasma Physics Using Ultra-Intense Lasers	346
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-10ER41666 12/31/2012 Geurts	SC-26.1	Experimental Relativistic Heavy Ion Physics	414
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46337 06/14/2012 Natelson	SC-22.22	Nanostructure Studies of Strongly Correlated Materials	130
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46274 02/14/2014 Du	SC-22.22	Experiments on Quantum Hall Topological Phases at Ultra-Low Temperatures	140

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RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46308 07/31/2012 Kono	SC-22.22	Spectroscopy of Degenerate One-Dimensional Electrons in Carbon Nanotubes	150
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER46598 08/14/2013 Yakobson	SC-22.23	The Dawn of Boron Fullerenes: Key Issues of Stability and Synthetic Routes	250
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25762 12/14/2011 Mellor-Crummey	SC-21.1	Performance Engineering Research Center (PERC3)	300
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25754 09/14/2011 Mellor-Crummey	SC-21.1	Center for Programming Models for Scalable Parallel Computing	400
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-07ER25800 11/14/2012 Mellor-Crummey	SC-21.1	Center for Scalable Performance Application Development Software	1,260
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25931 09/14/2012 Mellor-Crummey	SC-21.1	Correctness Tools for Petascale Computing	115
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25920 08/31/2012 Jermaine	SC-21.1	The MCDB System for Management and Analysis of Petabyte-Scale Uncertain Data	200
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-97ER41031 04/30/2013 Padley, Roberts, Corcoran	SC-25	High Energy Physics	844
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER16053 07/31/2012 Scuseria	SC-22.11	Accurate Band Gaps for Tailor-Made Photovoltaic Materials	415
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER15456 09/14/2012 Deem	SC-22.12	Towards Rational, Nanoscale Control of Catalysis: A Fundamental Study of Zeolite Structure and Nucleation	165
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-04ER15523 04/14/2013 Scuseria	SC-22.12	Accurate Theoretical Approaches for Studying Actinides and Other Heavy Elements in Solid State	135
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-09CH11579 08/31/2011 Quick	SC-23	Creation of the Parallel Computing Center at Southern Methodist University	0
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-04ER41299 02/14/2013 Stroynowski	SC-25	High Energy Physics	973
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-10ER41662 04/14/2015 Nadolsky	SC-25	RECOVERY ACT - Integrated Analysis of Particle Interactions at Hardon Colliders	600
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-08ER64620 07/31/2012 Chang	SC-23.1	Searching for Atlantic Thermohaline Circulation Strength Threshold Leading to Abrupt Change of the African Monsoon	131

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TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER64766 06/30/2012 Schumacher	SC-23.1	Radiative Heating Associated with Tropical Convective Cloud Systems: Its Importance at Meso and Global Scales	76
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER65091 08/31/2013 Saravanan	SC-23.1	Modulation of Extremes in the Atlantic Region by Modes of Climate Variability/Change: A Mechanistic Coupled	430
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-08ER64567 10/31/2011 Santschi	SC-23.1	Collaborative Research: Biogeochemical and Microbial Controls of Iodine-129 Mobility in Groundwater Relevant to Long-Term Stewardship of DOE Sites	243
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER64443 07/31/2011 Saravanan	SC-23.1	Hierarchical Coupled Modeling and Prediction of Regional Climate Change in the Atlantic Sector	193
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER46278 03/14/2012 Pokrovsky	SC-22.22	Theory of Magnetic Heterostructures on the Nanometer Scale	148
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER46450 08/14/2013 Lyuksyutov	SC-22.22	Emergent Behavior in Magnet-Superconductor Hybrids	150
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-02ER45999 09/14/2014 Dunbar	SC-22.23	Molecular Magnets Based on a Modular Approach: Investigation of Coupling, Anisotropy and Electronic Factors on Bistability	225
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER41485 06/14/2013 Mioduszewski	SC-26.1	Toward Understanding the QGP with the STAR Experiment at RHIC	238
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41699 08/31/2011 White	SC-25	Development of Quartz Structures for Ultralow Background High Pressure Phototubes	50
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41650 06/14/2013 McIntyre	SC-25	RECOVERY ACT: SRF-Test Cavity to test SRF materials to and beyond the BCS Limit	469
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41655 04/14/2015 Mahapatra	SC-25	RECOVERY ACT: Ton Scale Germanium: Beyond Zeptobarn WIMP Cross-section	600
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41682 05/31/2013 Fries	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of	45
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41680 05/31/2015 Zhanov	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	27
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-03ER15420 11/14/2012 Clearfield	SC-22.12	The Synthesis, Structures, and Chemical Properties of Macrocyclic Ligands Covalently Bonded into Layered Arrays	120
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER15520 03/31/2013 Russell	SC-22.12	Development of Ionization Methods and Structural Imaging MS	340

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TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER14511 12/31/2013 Goodman	SC-22.12	The Physical and Chemical Properties of Nanostructured Mixed-Metal Catalysts	220
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER26027 08/31/2013 Efendiev	SC-21.1	Bayesian Uncertainty Quantification in Predictions of Flows in Highly Heterogeneous Media and Its Applications to the CO2 Sequestration	249
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER25949 09/14/2012 Rojas	SC-21.1	Topology for Statistical Modeling of Petascale Data	87
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER16201 09/14/2013 Ozerov	SC-22.12	New Horizons in C-F Activation by Main Group Electrophiles	143
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER25727 03/31/2014 Efendiev	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	0
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER41405 11/30/2013 McIntyre	SC-25	New Technology for Future Colliders	2,366
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER40917 04/30/2013 Webb, Nanopoulos, Kamon, McIntyre	SC-25	High Energy Physics Research at Texas A&M University	1,183
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-93ER40765 11/30/2011 Tribble, Gagliardi	SC-26.1	QCD and Standard Model Studies	265
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-93ER40773 12/31/2013 Tribble	SC-26.1	Texas A&M University Cyclotron Institute Research Plan	2,950
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-10ER41705 08/31/2013 Tribble	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a Position Sensitive Microstrip Detector	325
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-08ER41533 01/14/2014 Bertulani	SC-26.1	Reactions With Rare Isotopes	60
TEXAS A&M UNIVERSITY Commerce, TX	DE-FC02-09ER41588 11/30/2011 Bertulani	SC-26.1	Building a Universal Nuclear Energy Density Functional	48
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-10ER41706 08/31/2013 Bertulani	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a	147
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-09ER64836 08/31/2012 Saffer	SC-23.2	The Development of an Artificial Science and Engineering Research Infrastructure to Facilitate Innovative Computational Modeling, Analysis, and Application...	291
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-00ER15034 01/31/2013 Datta-Gupta	SC-22.12	Time-Lapse Seismic Monitoring and Performance Assessment of CO2 Sequestration in Hydrocarbon Reservoirs	215

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TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-05ER15729 12/14/2011 Balbuena	SC-22.12	Theory-Guided Design of Nanoscale Multi-Metallic Catalysts For Fuel Cells	200
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-06ER15836 08/31/2012 Balbuena	SC-22.12	Modeling Catalyzed Growth of Single-Wall Carbon Nanotubes	106
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-08ER64644 02/29/2012 Kaihatu	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	100
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-94ER14416 12/31/2011 Bartsch	SC-22.12	New Proton-Ionizable, Calixarene-Based Ligands for Selective Metal Ion Separations	125
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-95ER40938 02/29/2012 Wigmans	SC-25	Experimental Particle Physics Research	647
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-99ER20346 08/31/2014 Knaff	SC-22.13	Ferredoxin-Dependent Plant Metabolic Pathways	313
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER25889 08/31/2012 Long	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	73
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46552 11/30/2011 Jiang	SC-22.22	Optical and Electrical Properties of III-V Nitrides and Related Materials	157
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46638 09/14/2012 Lichti	SC-22.22	SISGR - MuSR Studies of Magnetic Semiconductors for Spintronics Applications	210
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-05ER46218 01/31/2012 McKenna	SC-22.23	Cyclic Macromolecules: Dynamics and Nonlinear Rheology	180
EXAS, UNIV. OF HEALTH SC. CTR. Houston, TX	DE-FG02-07ER15867 05/14/2012 Spudich	SC-22.13	Folding and Function of Proteorhodopsins in Photoenergy Transducing Membranes	0
EXAS, UNIV. OF HEALTH SC. CTR. Houston, TX	DE-FG02-08ER64712 09/14/2011 Ferrari	SC-23.2	Alliance for NanoHealth (ANH) Training Progtram for the Development of Future Generations of Interdisciplinary	0
EXAS, UNIV. OF HEALTH SC. CTR. San Antonio, TX	DE-FG02-09ER64799 07/14/2012 Yuan	SC-23.2	The c-Abl Signaling Network in the Radio-Adaptive Response	357
UNIV. OF SOUTHWESTERN MED. CTR Dallas, TX	DE-FG02-09ER64789 06/30/2012 Boothman	SC-23.2	Low Dose IR Activation of TGF-Beta 1-IGF-1-sCLU In Vivo: Mechanisms, Functions of a Changing Microenvironment	475
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER25860 08/14/2012 Ghattas	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	151

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER25914 08/31/2012 Ghattas	SC-21.1	Uncertainty Quantification for Large-Scale Ice Sheet Modeling and Simulation	343
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-06ER25782 12/14/2011 Ghattas	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	80
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER25617 06/30/2014 Wheeler	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	194
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-94ER40845 03/31/2012 Hoffmann	SC-26.1	Studies in High Energy Heavy Ion Nuclear Physics	656
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER40954 01/14/2014 Downer	SC-25	Laser Wakefield Acceleration: Channeling, Seeding, and Diagnostics	294
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-93ER40757 12/31/2011 Ritchie, Lang, Schwitters, Kopp,	SC-25	Research in High Energy Physics	883
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER41321 01/31/2012 Shvets	SC-25	Investigations of the Plasma and Structure-Based Particle Accelerators	190
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER15362 11/30/2011 Freeman	SC-22.12	Novel Membranes for Carbon Dioxide Removal from Natural Gas Based on Thermally Rearranged Polymers	234
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15406 10/31/2013 Ditmire	SC-22.11	High Intensity Femtosecond XUV Pulse Interactions with Atomic Clusters	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-01ER15186 10/31/2013 Sessler	SC-22.12	Ion Pair Receptors: Fundamental Studies and Tests Involving Sulfate Anion and Thorium Cation Extraction	210
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15430 11/30/2012 Laubach	SC-22.12	Predicting Fracture Porosity Evolution In Sandstone	300
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15496 11/14/2012 Katz	SC-22.12	Metal-Anion Pairing at Oxide/Water Interfaces: Theoretical and Experimental Investigations from the Nanoscale to the Macroscale	86
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15587 01/31/2012 Mullins	SC-22.12	Surface Chemical Studies of Gold Model Catalysts	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16036 07/31/2014 Pope	SC-22.21	Frontiers of Subsurface Energy Security -- EFRC	1,700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16090 09/14/2012 Crooks	SC-22.12	SISGR: Correlation of Theory and Function in Well-Defined Bimetallic Electrocatalysts	316

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16119 09/14/2012 Bard	SC-22.13	SISGR: Nano-Structured Electrocatalysts for Conversion of Solar Energy to Fuels	350
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER15758 10/31/2011 Crooks	SC-22.12	Theoretical and Experimental Study of Electrokinetic Accumulation and Separation	151
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER15746 11/14/2011 Vanden Bout	SC-22.13	Single Molecule Spectroscopic Studies of Charge Separation and Charge Transfer	180
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER15884 07/31/2013 Stanton	SC-22.11	Quantum Chemistry of Radicals and Reactive Intermediates	174
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER41669 04/14/2015 Markert	SC-26.1	RECOVERY ACT - An Experimental Research Program on Chirality at the LHC	803
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER45958 06/14/2014 MacDonald, Niu	SC-22.22	Geometric Phases and Topological Effects in Graphene and Magnetic Systems	205
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46609 08/31/2012 Chelikowsky	SC-22.22	TMS: Theory and Simulation of Defects in Oxide Materials	385
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER46286 06/30/2013 Chelikowsky	SC-22.22	Theory of Functionalized Nanostructures	240
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER46377 05/31/2013 Shi	SC-22.22	Energy Transport in Graphene	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER46675 10/14/2011 Zhu	SC-22.23	Spectroscopy of Charge Carriers and Traps in Field-Doped Organic Semiconductors	323
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46673 08/31/2013 Zhu	SC-22.23	Extracting Hot Charge Carriers from Photoexcited Semiconductor Nanocrystals	267
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46657 09/14/2012 Ruoff	SC-22.23	SISGR - Improved Electrical Energy Storage With Electrochemical Double Layer Capacitance Based on Novel Carbon	453
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER46749 08/31/2013 Goodenough	SC-22.23	Materials and Interfacial Chemistry for Next-Generation Electrical Energy Storage	700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER54840 05/31/2012 Shvets	SC-24.2	Collective High-Current Beam Effects Relevant to Fast Ignition of Fusion Targets	50
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54766 05/14/2014 Gentle	SC-24.2	Collaborative Research: Magnetized Plasma Turbulence and Coupling to Bulk Flows	367



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TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER54373 03/31/2012 Gentle	SC-24.2	C-Mod Collaboration	352
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-97ER54415 03/31/2012 Gentle	SC-24.2	Proposed Diagnostics and Physics Contributions of the University of Texas Fusion Research Center to the DIII-D Program	440
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54742 10/31/2012 Van Dam	SC-24.2	Institute for Fusion Studies	2,619
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54754 06/14/2014 Kotschenreuther	SC-24.2	Removing the Divertor Bottleneck in Magnetic Fusion Energy	97
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-08ER54988 01/14/2012 Berk	SC-24.2	Center for Gyrokinetic/MHD Hybrid Simulation of Energetic Particle Physics in Toroidal Plasmas (CSEPP)	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54938 07/31/2013 Van Dam	SC-24.2	Activities of U.S. Burning Plasma Organization	231
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54945 07/31/2013 Downer	SC-24.2	Holographic Imaging of Evolving Laser-Plasma Structures	302
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-09ER55043 07/31/2011 Berk	SC-24.2	Fusion Simulation Program	40
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER65092 08/31/2013 Cook	SC-23.1	Changes in Intense Precipitation Events in West Africa and the Central U.S. Under Global Warming	306
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER64746 08/14/2012 Dickinson	SC-23.1	Systematic Development of a Subgrid Scaling Framework to Improve Land Simulation	309
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER64619 01/31/2012 Jackson	SC-23.1	Searching for Atlantic Thermohaline Circulation Strength Threshold Leading to Abrupt Change of the African Monsoon	60
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER64610 07/31/2012 Cook	SC-23.1	Influence of Atlantic SST Thresholds on Continental Climates: Development and Application of a Coupled Atmosphere/Ocean/Vegetation Regional	184
TEXAS, UNIVERSITY OF Richardson, TX	DE-FG02-08ER64691 08/14/2013 Chabal	SC-22.23	Novel Theoretical and Experimental Approaches for Understanding and Optimizing Hydrogen-Sorbent Interactions	360
EXAS, UNIVERSITY OF Arlington, TX	ARLINGTON DE-FG02-09ER46597 08/14/2012 Tao	SC-22.23	Doping Cuprous Oxide in Electrolyte Solution: Dopant Incorporation, Atomic Structures and Electrical Properties	167
EXAS, UNIVERSITY OF Arlington, TX	ARLINGTON DE-FG02-10ER41660 04/14/2015 Farbin	SC-25	RECOVERY ACT: Model-Independent Dark-Matter Searches at the ATLAS Experiment & Applications of Many-core	600

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-96ER40943 01/31/2014 White	SC-25	Research in Experimental Elementary Particle Physics	670
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-10ER65073 08/31/2012 Hu	SC-23.1	Effects of Pore-Scale Physics on Uranium Geochemistry in Hanford Sediments	110
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-09ER55037 07/14/2012 Overzet	SC-24.2	Micro-Misted Plasmas	211
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-04ER41310 04/14/2013 Izen	SC-25	Elementary Particle Physics	464
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER25948 09/14/2012 Teller	SC-21.1	I/O Coordination to Improve HEC System Performance: A Marriage of Analytical Modeling, Control Theory, and Differentiated I/O Performance	217
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER16048 08/31/2012 Baruah	SC-22.11	Density Functional Based Tools for Simulation of Photo-Induced Charge Transfer	207
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER41599 12/31/2013 Incera	SC-26.1	Quark Matter Under Extreme Conditions	0
XAS, UNIVERSITY OF SAN ANTONIO San Antonio, TX	DE-FG02-09ER25946 09/14/2012 Yi	SC-21.1	A Multi-Language Environment for Programmable Code Optimization and Empirical Tuning	125
Total for TX :				45,308

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-05ER15666 08/14/2014 Woodfield	SC-22.12	Energetics of Nanomaterials	165
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-03ER15410 01/31/2013 Farnsworth	SC-22.12	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	148
GEOLOGICAL SURVEY, U. S. Moab, UT	DE-AI02-08ER64550 05/14/2013 Belnap	SC-23.1	Climate Change in Arid Lands: How Effects Differ Among Plant Functional Groups	319
SOUTHERN UTAH UNIVERSITY Cedar City, UT	DE-FG02-10CH20026 12/31/2011 Tanner	SC-23	Southern Utah University (SUU) Walter M. Gibson Science Center Energy Efficiency Project	972
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-08ER54973 02/14/2016 Held	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-06ER64277 12/31/2011 Schmidt	SC-23.2	Enhancement for the Intermountain Center for River Restoration and Rehabilitation	583
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-04ER54746 12/14/2012 Held	SC-24.2	Advanced Closures for Numerical Simulations of Plasmas	82
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-05ER54812 02/28/2014 Held	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	71
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-10ER16162 06/14/2013 Evans	SC-22.12	Impact of Micro- to Meso-Scale Fractures on Sealing Behavior of Argillaceous Caprocks on Carbon Sequestration	175
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER16167 06/30/2013 Lighty	SC-22.11	Development of Kinetics for Soot Oxidation at High Pressures Under Fuel-Lean Conditions	168
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER16079 09/14/2012 Louie	SC-22.12	Harnessing the Chemistry of Carbon Dioxide	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14333 05/31/2014 Harris	SC-22.12	Analytical Spectroscopy Methods for Liquid/Solid Interfaces	135
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14315 07/31/2014 Miller	SC-22.12	The Hydrophobic Character of Nonsulfide Mineral Surfaces as Influenced by Double-Bond Reactions of Adsorb of Adsorbed Unsaturated Collector Species...	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-99ER15003 02/28/2014 Anderson	SC-22.11	Model Catalysts by Size-Selected Cluster Deposition	168
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-01ER15176 12/14/2013 Morse	SC-22.11	Spectroscopy of Organometallic Radicals	136

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER15404 05/31/2012 Armentrout	SC-22.11	Thermochemistry and Reactivity of Transition Metal Clusters and Their Oxides	145
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER41446 09/14/2012 Detar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	60
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-10ER25898 01/31/2012 Hall	SC-21.1	Performance Engineering Research Institutes	100
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-08ER25865 09/14/2012 Sanderson	SC-21.1	Visualization and Analysis in Support of Fusion Science	100
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER25950 09/14/2012 Pascucci	SC-21.1	Topology for Statistical Modeling of Petascale Data	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER25973 01/31/2012 Hall	SC-21.1	Compiler-Directed Automatic Performance Tuning	235
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-07ER25810 11/14/2011 Silva	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	182
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER25781 12/14/2012 Johnson	SC-21.1	Visualization and Analytics Center for Enabling Technologies	854
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46663 09/14/2012 Smith	SC-22.23	SISGR: The Influence of Electrolyte Structure and Electrode Morphology on the Performance of Ionic-Liquid Based	500
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64557 05/14/2012 Zipser	SC-23.1	Validation of Model Simulations of Anvil Cirrus Properties	99
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64553 05/14/2012 Krueger	SC-23.1	Interactions of Cumulus Convection and the Boundary Layer at the Southern Great Plains ACRF	77
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-98ER62571 02/28/2012 Mace	SC-23.1	The Coupling Between the Large Scale Atmospheric State and Cloud Properties: A Continuing Investigation with ARM Data	165
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46639 09/14/2012 Scarpulla	SC-22.22	SISGR - Fundamental Studies of Unconventional Sulfide Semiconductors for Cost- Effective and Environmentally Benign	300
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46568 07/14/2012 Boehme	SC-22.22	Coherent Control of Spin-States in Organic Electronics	185
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-06ER46313 05/31/2012 Mishchenko	SC-22.22	Transport and Interactions in Chiral Electron Systems	110

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46086 08/31/2012 Virkar	SC-22.22	Thermodynamic, Kinetic and Electrochemical Studies on Mixed Proton, Oxygen Ion and Electron (Hole) Conductors	283
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46027 04/30/2013 Liu	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing, Characterization, and Novel Devices	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46148 05/31/2013 Liu	SC-22.22	Classical and Quantum Stress Effects in Nano Thin Films and in Doping of Semiconductors	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46109 11/14/2013 Vardeny	SC-22.23	Optical, Electrical and Magnetic Studies of pi-Conjugated Systems	210
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER45504 12/31/2013 Miller	SC-22.23	Synthesis of Molecule/Polymer Based Magnetic Materials	235
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER64937 05/14/2012 Lazzi	SC-23.2	Artificial Retina Project: Electromagnetic and Thermal Effects	191
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER65084 09/14/2013 Ehleringer	SC-23.1	Improving Representation of Drought Stress and Fire Emissions in Climate Carbon Models: Measurements and Modeling with a Focus on the Western USA	349
Total for UT :				8,287

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ATION FOR WOMEN IN MATHEMATICS Fairfax, VA	DE-FG02-07ER25822 03/31/2014 Manning	SC-21.1	Support for Recognition of Women and for Activities for Women in Mathematical Sciences at National Meetings	0
DEFENSE ADV RES PROJECT AGENCY Arlington, VA	DE-AI02-07ER25819 12/31/2012 Holland	SC-21.1	Cascade: High Productivity Adaptive Computing	8,000
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER64773 06/14/2012 Boybeyi	SC-23.1	Assessment of the Indirect and Semi-Direct Aerosol Effects During ISDAC Through Integrated Observational and Modeling	176
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-08ER64633 08/31/2012 DelSole	SC-23.1	Optimal Detection of Decadal Predictability	57
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-10ER65095 08/31/2013 DelSole	SC-23.1	Collaborative Research: Separating Forced and Unforced Decadal Predictability in Models and Observations	254
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-07ER64473 08/14/2011 Straus	SC-23.1	Detection and Attribution of Climate Change Using the Interactive Ensemble	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-01ER45871 08/31/2014 Mishin	SC-22.22	Interfaces in Electronic and Structural Materials	122
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER25886 08/14/2012 Nash	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	152
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-97ER41047 05/31/2012 Tang	SC-26.1	Selected Problems in Hypernuclear Physics	160
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-87ER40380 03/31/2013 Keppel	SC-26.1	The Hampton University Graduate Studies (HUGS) Summer Program at Jefferson Lab	48
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-07ER54937 07/31/2012 Ali	SC-24.2	The Hampton University Undergraduate Research Experience in Fusion Science and Related Areas for Minority and Female	26
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-01ER54624 04/14/2013 Ali	SC-24.2	The Problem of Heat Deposition on Divertor Tokamak	84
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-04ER54793 07/31/2013 Punjabi	SC-24.2	Homoclinic Tangles in DIII-D Divertor Tokamak	138
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-10ER41667 04/14/2015 Kohl	SC-26.1	RECOVERY ACT - Search for Time Reversal Symmetry Violation with TREK at J-PARC	649
HYPERV TECHNOLOGIES CORP. Fairfax Station, VA	DE-FG02-05ER54810 12/14/2013 Witherspoon	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	580

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
HYPERV TECHNOLOGIES CORP. Fairfax Station, VA	DE-FG02-05ER54835 05/31/2012 Witherspoon	SC-24.2	Hybrid Kinetic/Fluid Simulations for Magnetized High Energy Density Plasma Studies	594
ADVANCED LEARNING AND RESEARCH Danville, VA	DE-FG02-10ER65036 07/31/2013 Mei	SC-23.2	Development of a Low Input and Sustainable Switchgrass Feedstock Production System Utilizing Beneficial Bacterial Endophytes	493
NATIONAL AERONAUT & SPACE ADM Hampton, VA	DE-AI02-05ER63985 12/31/2011 Hostetler	SC-23.1	Characterizing Aerosol Distributions and Optical Properties Using the NASA Langley Airborne High Spectral Resolution Lidar (HSRL)	358
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-02ER63425 10/31/2013 McCartney	SC-23.2	PDB Management by the Research Collaboratory for Structural Biology	600
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER62250 05/14/2012 Stephens	SC-23.1	Support of Distributed Cost Activities of the U.S. Global Change Research Program	596
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54996 07/14/2011 Berger	SC-24.2	Effect of Ion Flows on Heating and Instabilities in Weakly Coupled Dusty Plasmas	67
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54997 07/14/2011 Berger	SC-24.2	Collaborative Research: Collisionless Heating During Strong Field Irradiation of Wavelength-scale Particles	25
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54998 07/14/2011 Berger	SC-24.2	RUI: Collaborative Research: Collisionless Heating During Strong Field Irradiation of Wavelength-scale Particles	25
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-07ER64424 06/14/2012 Itsweire	SC-23.1	Continuation and Enhancement of the MPOWIR Program	60
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45582 02/28/2014 Murillo	SC-22.23	Research Facilities at ChemMatCARS: A Synchrotron Resource for Chemistry and Materials Science at the Advanced Photon	240
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45568 04/30/2012 Stolberg	SC-22.23	Pan American Advanced Studies Institute Program (PASI)	200
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-04ER46143 07/14/2012 Roco	SC-22.22	National Nanotechnology Coordinating Office (NNCO)	531
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-10ER35912 02/29/2012 Green	SC-2	Interagency Transfer Request for Support of the National Academy of Science Study on Research Universities	263
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-98ER25365 09/14/2012 McDuffie	SC-21.1	Co-Sponsorship of the ITR&D Program	501
NORFOLK STATE UNIVERSITY Norfolk, VA	DE-FG02-89ER40525 06/30/2013 Punjabi	SC-26.1	Polarization Experiments with Electromagnetic Probes	105

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-97ER41028 04/14/2012 Radyushkin	SC-26.1	Topics in Theoretical Nuclear Physics	143
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER40960 03/14/2014 Hyde, Weinstein, Dodge, Kuhn	SC-26.1	From Quarks to Nuclei	737
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-05ER54820 03/31/2012 Vahala	SC-24.2	EBW Physics of ECE in NSTX	70
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER54360 05/31/2013 Vahala	SC-24.2	Topics in Plasma Physics	10
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-10ER41639 05/14/2013 Delayen	SC-26.2	Development of a Suite of Engineered Multi-Spoke Superconducting Cavities for Nuclear Physics, Light Sources and Driven	1,448
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-09ER16063 02/28/2013 Parish	SC-22.11	A Theoretical Investigation of the Structure and Reactivity of the Molecular Constituents of Oil Sand and Oil Shale	134
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-96ER40980 05/31/2012 Gilfoyle	SC-26.1	Medium Energy Nuclear Physics at the University of Richmond	46
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-05ER41379 04/30/2014 Beausang	SC-26.1	Nuclear Structure Research at Richmond	119
ROLLING BAY LLC Manassas, VA	DE-AC02-07ER35878 08/26/2012 Hughes	SC-45	Mission Specific IT Services	3,363
SOCIETY OF NUCLEAR MEDICINE Reston, VA	DE-FG02-10ER64958 04/30/2012 Wenzel-Lamb	SC-23.2	Support of Students for Radiochemistry Symposium, September 8-11, 2010	20
TKC INTEGRATION SERVICES LLC Herndon, VA	DE-AB01-10ER35911 04/29/2014 TBD	SC-45	Blanket Purchasing Agreement for Microsoft Software Licensing and Software Assurance - NASA SEWP Contract # NNG07DA19B and	147
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-10ER16127 12/31/2012 Luzar	SC-22.11	Hydration Mechanisms in Nanoparticle Interaction and Surface Energetics	120
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-96ER45579 08/31/2014 Jena	SC-22.22	Super Beyond Halogens & Beyond Clusters	182
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-09ER46665 09/14/2012 El-Kaderi	SC-22.23	SISGR - Design and Synthesis of Chemically and Electronically Tunable Nanoporous Organic Polymers for Use in Hydrogen Storage Applications	190
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER46290 07/31/2012 Viehland	SC-22.22	Mesoscale Design of Interphase-Interfaces in Magnetoelectric Nanocomposites	214



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A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER46480 05/14/2014 Priya	SC-22.21	Correlation of Bulk Dielectric and Piezoelectric Properties to the Local Scale Phase Transformations, Domain Morphology, and Crystal Structure in	154
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-08ER46532 04/30/2014 Heremans	SC-22.22	Spin-Coherent Transport Under Strong Spin-Orbit Interaction	75
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER41658 04/14/2015 Huber	SC-25	RECOVERY ACT: Neutrinos in the Universe	600
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER64449 07/31/2014 Beers	SC-23.2	Functional Interactomics: Determining the Roles Played by Members of the Popular Biomass Protein-Protein Interactome	0
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-92ER40709 01/31/2013 Piilonen, Takeuchi	SC-25	Investigations in Experimental and Theoretical Particle Physics	506
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER25981 04/14/2015 Vullikanti	SC-21.1	RECOVERY ACT - Diffusion on Complex Networks: Algorithmic Foundations	750
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-00ER15112 10/31/2013 Dove	SC-22.12	Investigation of the Physical Basis for Biomineralization	252
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-96ER14669 12/14/2012 Oyama	SC-22.12	Molecular Understanding of Advanced Catalysis for Hydrodeoxygenation	160
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-97ER14751 04/30/2012 Cox	SC-22.12	Hydrocarbon Dehydrogenation and Oxidation Over Model Metal Oxide Surfaces	155
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15658 12/14/2011 Ross	SC-22.12	Energetics of Nanomaterials	80
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER15786 09/14/2012 Hochella	SC-22.12	Dissolution Rates and Sorption/Catalytic Reactivity of Nanominerals and Nanomineral Aggregates	589
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15751 05/31/2014 Brewer	SC-22.13	Photoinitiated Electron Collection in Mixed-Metal Supramolecular Complexes: Development of Photocatalysts for Hydrogen	150
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER65033 08/14/2013 Tyler	SC-23.2	Gene Ontology Terms and Automated Annotation for Energy-related Microbial Genomes	689
VIRGINIA STATE UNIVERSITY Petersburg, VA	DE-FC02-10ER25892 05/14/2012 Damevski	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	322
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-96ER40950 11/30/2013 Day, Crabb	SC-26.1	Electron Interactions with Nuclei	714

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41027 04/15/2012 Thacker	SC-25	Experimental and Theoretical High Energy Physics Group (Tasks A, B, C, and D)	1,454
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41025 05/31/2012 Norum	SC-26.1	Nuclear Studies with Intermediate Energy Probes	424
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41168 03/31/2013 Cates	SC-26.1	Medium Energy Spin Physics with Lasers	520
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41200 04/30/2013 Liuti	SC-26.1	Studies of Quantum Chromodynamics at the Intersection of the Perturbative and Non-Perturbative Regimes	95
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-03ER41240 05/31/2014 Liyana	SC-26.1	Deep Inelastic Scattering in the Nucleon Valence Quark Region for Precision Studies of Nucleon Spin Structure and for Parity	167
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER15894 02/14/2012 Neurock	SC-22.12	Theory Aided Design of Active and Durable Nanoscale Cathode Catalysts	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16080 09/14/2012 Yates	SC-22.12	Observing Carbon-Hydrogen Bond Activation in Chemisorbed Species Using a New Highly Sensitive Optical Method	200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16014 12/31/2012 Gunnoe	SC-22.12	Development of Transition Metal Catalysts for the Functionalization of Carbon-Hydrogen Bonds: Fundamental Studies of Catalytic Hydroarylation of Olefins	145
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16025 07/31/2012 Andrews	SC-22.12	Matrix Infrared Spectroscopic and Computational Investigations of Novel Small Uranium Containing Molecules	119
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER14786 10/31/2012 Gallagher	SC-22.11	Studies of Autoionizing States Relevant to Dielectronic Recombination	276
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-95ER14549 05/31/2012 Davis	SC-22.12	Structure and Function of Supported Base Catalysts	160
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-00ER15053 11/30/2012 Jones	SC-22.11	Using Strong Optical Fields to Manipulate and Probe Coherent Molecular Dynamics	296
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER64442 07/31/2011 Keene	SC-23.1	The Impact of Primary Marine Aerosol on Atmospheric Chemistry, Radiation, and Climate: A CCSM Model Development	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-10ER41668 05/31/2015 Zheng	SC-26.1	RECOVERY ACT - Measurement of Parity Violation in Deep Inelastic Scattering and Studies of the Nucleon Spin Structure at JLab 6 and 11 GeV	647
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER41522 04/30/2012 Paschke	SC-26.1	Precision Electroweak Studies at Low Q <sup>2</sup> using Parity-Violating Electron-Scattering	170

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VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER45927 06/14/2014 Louca	SC-22.21	Emergent Phenomena in Novel Materials and Functionality Control: Characterization at Multiple Length and Time Scales	203
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER46582 07/31/2014 Gunnoe	SC-22.11	Center for Catalytic Hydrocarbon Functionalization -- EFRC	2,200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER46384 05/31/2013 Lee	SC-22.21	Neutron Scattering Study of Unconventional Superconductors	193
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER54344 12/31/2011 Vahala	SC-24.2	Theoretical Plasma Physics	100
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER46127 04/14/2013 Luepke	SC-22.22	Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated Systems	150
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER41630 08/31/2012 Detmold	SC-26.1	Multi-Meson Systems in Lattice QCD	83
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-07ER46366 04/30/2012 Krakauer	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamics Effects in Correlated Materials	0
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER41302 03/14/2013 Orginos, Detmold	SC-26.1	Topics in Theoretical Physics	136
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER41003 02/14/2014 Griffioen, Averett	SC-26.1	Nucleon Structure Studies	436
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER25885 08/14/2012 Lewis	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	18
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER16046 08/31/2012 Krakauer	SC-22.11	Quantum Monte Carlo Calculations of Chemical Binding and Reactions	280
Total for VA :				35,715

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
& ST AGRICULTURAL COL., U. OF Burlington, VT	DE-FG02-09ER64921 09/28/2012 Bernstein	SC-23.2	University of Vermont Center for Biomedical Imaging	1,166
VERMONT, UNIVERSITY OF Burlington, VT	DE-FG02-07ER46380 05/31/2014 Headrick	SC-22.21	Fundamental Mechanisms of Roughening and Smoothing During Thin Film Deposition	124
Total for VT :				1,290

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ED MEDICAL ISOTOPE CORPORATION Kennewick, WA	DE-FG02-10ER65004 09/14/2012 Su	SC-23.2	Research to Develop and Test an Advanced Resorbable Brachytherapy Seed Research for Controlled Delivery of Yttrium-90	1,215
FORESIGHT SCIENCE & TECH, INC. Port Townsend, WA	DE-AD02-08ER12272 12/31/2011 Speser	SC-29	SBIR/STTR Commercialization Assistance Program	610
INSTITUTE FOR SYSTEMS BIOLOGY Seattle, WA	DE-FG02-10ER65031 08/14/2013 Baliga	SC-23.2	Enabling a Systems Biology Knowledgebase with Gaggle and Firegoose	494
MSNW, LLC Redmond, WA	DE-FG02-09ER55029 08/14/2012 Slough	SC-24.2	Foil Liner Compression of the FRC to Megagauss Fields	441
NATIONAL OCEAN & ATMOS ADMIN Seattle, WA	DE-AI02-06ER25771 09/14/2011 Hankin	SC-21.1	Scaling the Earth System Grid to Petascale Data	180
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46386 05/31/2013 McCluskey	SC-22.22	Optical Properties of Doped ZnO Nanocrystals and Ceramics	151
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46435 08/14/2013 Zbib	SC-22.22	Investigating Deformation and Failure Mechanisms in Nanoscale Multilayer Metallic Composites	185
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64560 05/14/2012 Beyenal	SC-23.1	Microscale Metabolic, Redox and Abiotic Reactions in Hanford 300 Area Subsurface Sediments	259
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER15618 07/31/2012 Dickinson	SC-22.12	Laser Material Interactions Relevant to Analytic Spectroscopy of Wide Band Gap Materials	90
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16098 09/14/2012 Clark	SC-22.12	SISGR - Origin of Actinide Ion Partitioning in Biphasic Systems	200
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16062 08/14/2012 Cousins	SC-22.13	Disruption of C4 Photosynthesis by Changes in Light Quantity and Quality: Implications for CO2 Fixation and	164
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16054 08/14/2012 Lange	SC-22.13	Unraveling the Regulation of Terpenoid Oil and Resin Biosynthesis for the Development of Biocrude Feedstocks	135
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER16154 08/31/2013 Clark	SC-22.12	Controlling Actinide Hydration in Mixed Solvent Systems: Towards Tunable Solvent Systems to Close the Nuclear Fuel Cycle	150
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER15927 08/31/2012 Neff	SC-22.13	Biochemical and Molecular Genetic Analysis of the AT-hook Nuclear Localizing (AHL) Gene Family in Arabidopsis	130
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15820 12/14/2012 Hurst	SC-22.13	Membrane-Organized Chemical Photoredox Systems	140

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WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER25983 05/14/2013 Vixie	SC-21.1	Geometric Analysis for Data Reduction and Structure Discovery	423
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER20323 03/14/2012 Browse	SC-22.13	Jasmonate Signaling and Stamen Development in Arabidopsis	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20225 07/14/2014 Kahn	SC-22.13	The Rhizobial Nitrogen Stress Response and Effective Symbiotic Nitrogen Fixation	170
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-97ER20259 01/31/2013 Lewis	SC-22.13	Lignin Biopolymer Assembly and Primary Structure: A (Bio)Chemical Characterization	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20216 08/31/2014 Okita	SC-22.13	Enhancement of Photoassimilate Utilization by Manipulation of Starch Regulatory Enzymes ADPglucose Pyrophosphorylase and Starch Phosphorylase	169
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER64901 08/31/2012 Gang	SC-23.2	Engineering Specialized Metabolism in a Single Cell Type	463
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER64950 04/14/2015 VanReken	SC-23.1	RECOVERY ACT - Linking Plant Stress, Biogenic SOA, & CCN Production - A New Feedback in the Climate System?	581
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64626 07/31/2011 Jobson	SC-23.1	Field Measurements of Organic Aerosol Precursors and Air Mass Photochemical Age	96
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64660 08/31/2012 Flury	SC-23.1	Long-Term Colloid Mobilization and Colloid-Facilitated Transport of Radionuclides in a Semi-Arid Vadose Zone	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64696 09/14/2011 Wall	SC-23.1	Influence of Organic Ligands on the Stability and Mobility of Reduced Tc(IV) and U(IV)	101
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER65075 08/31/2012 Harsh	SC-23.1	Technetium(VII) Coprecipitation with Framework Aluminosilicates	100
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64688 09/14/2011 Harwood	SC-23.2	Integrating Large-Scale Functional Genomics Data to Dissect Metabolic Networks for Hydrogen Production	400
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64685 09/14/2011 Leigh	SC-23.2	Hydrogen Regulation and Global Responses to Electron, Carbon and Nitrogen Sources of Methanococcus Maripaludis	600
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64589 07/14/2012 Lettenmaier	SC-23.1	Susceptibility of Colorado River Basin to Megadroughts in a Warming Climate	134
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64778 06/30/2012 Ackerman	SC-23.1	Evaluating and Improving Cloud Processes in the Multi-Scale Modeling Framework	169

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				FY 2010
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64769 06/14/2012 Fu	SC-23.1	Radiative Energy Balance in the Tropical Tropopause Layer: An Investigation with ARM DATA	138
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64767 06/14/2012 Marchand	SC-23.1	Atmospheric Classification for the Analysis of ARM Observations and Global Climate Models	161
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64752 05/14/2012 Houze	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	118
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER64972 05/31/2013 Lidstrom	SC-23.2	Systems Level Insights into Alternate Methane Cycling Modes in a Freshwater Lake via Community Transcriptomics, Metabolomics, and Nano-SIMS Analysis	456
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64839 08/14/2011 Lettenmaier	SC-23.1	Collaborative Proposal: Hydrologic Extremes in a Changing Climate: How Much Information Can Regional Climate Models	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER16197 09/14/2013 Baker	SC-22.13	Protein Scaffolding for Small Molecule Catalysts	300
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-00ER41132 02/28/2014 Kaplan	SC-26.1	Institute for Nuclear Theory	5,255
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41020 11/30/2011 Robertson	SC-26.1	Experimental Nuclear Physics	4,166
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41014 10/31/2011 Miller	SC-26.1	Nuclear Theory	785
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-07ER41457 11/30/2011 Bulgac	SC-26.1	Low-Energy Nuclear Physics National HPC Initiative: Building a Universal Nuclear Energy Density Functional	236
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER40956 03/31/2014 Nelson, Wilkes, Yaffe	SC-25	Theoretical and Experimental Particle Physics	1,698
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15707 08/31/2013 Harwood	SC-22.13	Biohydrogen production by a photosynthetic bacterium	358
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER16105 09/14/2012 Khalil	SC-22.11	SISGR - Correlating Electronic and Nuclear Motions During Photoinduced Charge Transfer Processes using Multidimensional	280
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER16106 09/14/2012 Seidler	SC-22.11	SISGR - New Scientific Opportunities Through Inelastic X-Ray Scattering at 3rd-and 4th-Generation Light Sources (*)	163
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER14630 03/14/2014 Campbell	SC-22.12	Supported Metal Nanoparticles: Correlating Catalytic Kinetics, Energetics and Surface Structure	190

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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64460 08/14/2011 Lettenmaier	SC-23.1	Collaborative Research: Towards Decadal-Scale Prediction of Arctic Climate Using a High-Resolution Regional Arctic Climate System Model	173
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64482 08/31/2011 Harwood	SC-23.2	Redirection of Metabolism of Hydrogen Production	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64485 08/31/2011 Lidstrom	SC-23.2	Coupling Function to Genomics in Microbial Communities Via Single-Cell Ananlysis	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64433 07/31/2011 Bitz	SC-23.1	Deep Ocean Heat Uptake and the Influence of Sea Ice in the Southern Ocean	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-10ER55073 03/14/2016 Glasser	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	50
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER55034 08/14/2012 Smith	SC-24.2	Internal Field, Density and Temperature Measurements in Magnetized Target Fusion Plasmas Using Pulsed Polarimetry	216
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER46653 09/14/2012 Cobden	SC-22.21	SISGR - Intrinsic Properties of Correlated Materials Derived From Combined Nanoscale Transport and Ultrafast Spatio-Temporal Imaging Experiments	398
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER46702 05/31/2013 Pozzo	SC-22.21	Self-Assembly of Conjugated Polymer Networks: A Neutron Scattering Study	185
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-05ER54811 02/28/2014 Jarboe	SC-24.2	Plasma Science and Innovation Center (PSI Center) at Washington, Wisconsin, and Utah State	934
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54769 06/14/2012 Slough	SC-24.2	Small Scale Fusion: The Pulsed High Density FRC Experiment	315
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54756 12/31/2011 Shumlak	SC-24.2	The ZaP Flow Z-Pinch Project	317
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-98ER54480 12/14/2011 Steinhauer	SC-24.2	Theory of Field-Reversed Configurations	95
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54361 05/31/2014 Jarboe	SC-24.2	Helicity Injected Torus (HIT) Current Drive Program	1,059
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54376 01/31/2012 Slough, Vlases, Milroy	SC-24.2	High Flux FRC Facility for the Stability, Confinement and ITER Divertor Studies	1,536
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-99ER54519 03/14/2014 Jarboe	SC-24.2	Solenoid Free Current Initiation and Sustainment by Coaxial Helicity Injection	310



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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46452 08/14/2013 Andreev	SC-22.22	Electron Interaction Effects in Nanosystems	280
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46467 05/31/2013 Jenekhe	SC-22.23	Molecular and Nanoscale Engineering of High Efficiency Exciton Solar Cells	380
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER45623 02/14/2012 Rehr	SC-22.22	Quantitative Photon and Electron Spectroscopy Theory	303
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-02ER45990 07/14/2012 Rehr	SC-22.22	Computational Materials and Chemical Sciences Network Administration	55
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER41645 09/30/2011 Wilbur	SC-26.2	Production of Astatine-211 for U.S. Investigators	705
WHITWORTH UNIVESITY Spokane, WA	DE-FG02-10CH20028 12/31/2011 Noland	SC-23	Whitworth University Science Equipment Upgrades	291
YAHSGS, LLC Richland, WA	DE-AC02-09ER41625 07/31/2013 Yuracko	SC-26.2	Isotope Program Support Services Requirement for Strategic Planning, Measurement and Analysis, and Quality,	150
Total for WA :				30,486

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64480 08/31/2011 Hammel	SC-23.2	A New Solution-State NMR Approach to Elucidate Fungal and Enzyme/Mediator Delignification Pathways	0
AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64491 08/31/2011 Hunt	SC-23.2	Development of Modular Platforms for In Vivo Mapping of Local Metabolite Concentrations Important to Cell Wall	0
AGRICULTURE, U.S. DEPT. OF Rhinelander, WI	DE-AI02-09ER64717 01/14/2012 Kubiske	SC-23.1	Final Harvest of Above-Ground Biomass and Allometric Analysis of the Aspen FACE Experiment	88
TAR MEDICAL RADIOISOTOPES, LLC Madison, WI	DE-FG02-10ER41642 09/30/2011 Harvey	SC-26.2	Production of Actinium-225 via High Energy Proton Induced Spallation of Thorium-232	263
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16050 07/31/2012 Xu	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16059 08/31/2012 Schmidt	SC-22.11	Modeling Carbon Dioxide Capture and Separation in Zeolitic Imidazolate Frameworks	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16122 09/14/2012 Hammers	SC-22.13	SISGR - Ultra-Stable Molecule-Surface Architectures at Metal Oxides: Structure, Bonding, and Electron-Transfer Processes	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16110 09/14/2012 Skinner	SC-22.11	SISGR - Water Dynamics in Heterogeneous and Confined Environments: Salt Solutions, Reverse Micelles, and Lipid Multi-Bilayers	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15690 11/14/2011 Stahl, Brunold	SC-22.12	Mechanisms of Organometallic Aerobic Oxidation Reactions Catalyzed by Copper	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15731 07/14/2014 Mavrikakis	SC-22.12	Atomic-Scale Design of Metal and Metal Alloy Catalysts: A Combined Theoretical and Experimental Approach	290
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER15899 08/31/2013 Gilbert	SC-22.12	Phase Transitions and Crystalline Orientations in Marine Invertebrate Skeletons: Key Insight into Biomineral Formation Mechanisms and Function	225
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER14389 03/31/2013 Valley	SC-22.12	Ion Microprobe Analysis of Oxygen and Silicon Isotope Ratios in Diagenetic Cements	248
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13938 06/30/2012 Sussman	SC-22.13	Molecular Mechanism of Energy Transduction by Plant Membrane Proteins	127
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13968 04/14/2013 Vierstra	SC-22.13	Molecular Dissection of the Arabidopsis Holo-26S Proteasome	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-84ER13183 06/30/2014 Dumesic	SC-22.12	Fundamental Studies of the Reforming of Oxygenated Compounds Over Supported Metal Catalysts	168

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER13500 10/14/2012 Crim	SC-22.11	Vibrations and Conical Intersections in Electronically Excited Molecules and Complexes	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER15527 05/31/2013 Spalding	SC-22.13	Amino Acid-Sensing Ion Channels in Plants	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-02ER15342 08/31/2012 Bent	SC-22.13	Dissection and Manipulation of LRR Domains in Plant Disease Resistance Receptors	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25869 11/30/2010 Linderoth	SC-21.1	Optimization Under Nonconvexity and Uncertainty: Algorithms and Software	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25861 08/14/2012 Linderoth	SC-21.1	Next-Generation Solvers for Mixed-Integer Nonlinear Programs: Structure, Search, and Implementation	181
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25945 09/14/2012 Miller	SC-21.1	Lightweight and Statistical Techniques for Petascale Debugging	79
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25940 12/14/2012 Miller	SC-21.1	Foundational Tools for Petascale Computing	138
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25937 09/14/2012 Miller	SC-21.1	Correctness Tools for Petascale Computing	104
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25934 09/14/2012 Miller	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25972 01/31/2013 Miller	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	270
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER16204 09/14/2013 Berry	SC-22.12	Metal-Metal Bonded Reaction Intermediates in C-H Functionalization	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER25627 08/31/2012 Mitchell	SC-21.1	BACTER: Bringing Advanced Computational Techniques to Environmental Research	1,400
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER25756 09/14/2012 Livny	SC-21.1	A Center for Enabling Distributed Petascale Science	280
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER25802 11/14/2011 Miller	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25842 08/14/2012 Miller	SC-21.1	A Path to Operating System and Runtime Support for Extreme Scale Tools	347

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER41436 03/31/2012 Livny	SC-25	SciDAC: Sustaining and Extending the Open Science Grid: Science Innovation on a PetaScale Nationwide Facility	1,739
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-95ER40896 10/31/2013 Smith	SC-25	High Energy Physics Research: Experimental, Theoretical, Phenomenology, Mathematical	4,641
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER46327 07/31/2013 Eom	SC-22.22	Atomic Layer Controlled Growth of Pnictide Thin Film Heterostructures by Design	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46590 05/31/2013 Gopalan	SC-22.23	Optical and Electro-Optic Modulation of Biomimetically-Functionalized Nanotubes	285
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46547 04/30/2012 Voyles	SC-22.21	Characterization of Dopant / Point Defect Complexes in Semiconductors by STEM	220
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46493 06/14/2014 Szlufarska	SC-22.22	Radiation Effects in Nanocrystalline Ceramics: Multi-Scale Model and Experiment	214
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41551 01/31/2012 Heeger	SC-26.1	OJI: Measurement of Neutrino Properties With Bolometric Detectors	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41531 10/31/2013 Ramsey-Musolf	SC-26.1	Fundamental Interactions in Nuclei	325
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER46147 05/31/2013 Evans	SC-22.21	Dynamics and Extreme Conditions in Complex Oxide Heterostructures	196
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-03ER46028 04/30/2013 Lagally	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing Characterization, and Novel Devices	470
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER45777 07/31/2012 Chang	SC-22.21	Stability and Novel Properties of Magnetic Materials and Ferromagnet/Insulator Interfaces	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER54222 01/31/2014 Anderson	SC-24.2	HSX: A Helicallly Symmetric Toroidal Experiment	2,049
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-92ER54139 04/30/2014 Callen	SC-24.2	Large Experiment Data Analysis Collaboration	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER53218 12/31/2012 Hegna	SC-24.2	Nonlinear and Nonideal MHD	276
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER52122 12/31/2011 Vernon	SC-24.2	High Power Microwave Transmission Systems for Electron-Cyclotron-Resonance Plasma Heating	100

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER53212 11/30/2013 Terry	SC-24.2	Theoretical Studies Related to Reversed Field Pinch Physics	151
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53291 12/14/2011 Terry	SC-24.2	Turbulence and Transport in Toroidal Plasmas	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53296 12/31/2012 Fonck, McKee	SC-24.2	Multifield Fluctuation Diagnostics Development for Nonlinear Instability Studies in Fusion-Grade Toroidal Plasmas	550
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46730 08/14/2013 Bisognano	SC-22.3	Construction and Test of a Novel Superconducting RF Electron Gun	3,000
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46692 03/31/2013 de Pablo	SC-22.23	Functional, Hierarchical Colloidal Liquid Crystal Gels and Liquid Crystal Elastomers Nanocomposites	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46685 04/14/2015 Fredrickson	SC-22.23	RECOVERY ACT - Chemical Frustration: A Design Principle for the Discovery of New Complex Alloy and Intermetallic Phases	600
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46642 09/14/2012 Ediger	SC-22.22	SISGR - Characterization of High Density/High Stability Glasses	146
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46664 09/14/2012 Jin	SC-22.23	SISGR: Fundamental Studies of Charge Transfer in Quantum Confined Nanostructure Heterojunctions and Applications to Solar Energy Conversion	650
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54513 10/31/2013 Sawan, Mogahed, Sviatoslavsky,	SC-24.2	Nuclear Technologies for Near Term Fusion Devices	215
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54546 12/31/2013 Hegna	SC-24.2	Theoretical Studies of Near Symmetric Stellarator Plasmas	142
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-96ER54375 11/30/2013 Fonck, Hegna, Corradini	SC-24.2	Non-Solenoidal Startup and Stability Limits at Near-Unity Aspect Ratio	1,398
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-98ER54462 12/31/2012 El-Guebaly, Henderson, Haynes, Kulcinski	SC-24.2	Fusion Advanced Design Studies	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-97ER54437 09/14/2012 Hershkowitz	SC-24.2	Laboratory Measurements of Bohm Presheaths: Experimental Check of Many of the Predicted Properties	179
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54751 05/31/2012 Santarius	SC-24.2	Investigation of Converging Plasma-Jet Compression and Magno-Inertial Fusion Burn Dynamics	84
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54745 02/14/2013 Santarius	SC-24.2	Atomic Physics Effects on Spherically Convergent, Child-Langmuir Ion Flow Between Nearly Transparent Electrodes	68

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-00ER54603 12/31/2011 Forest	SC-24.2	Stabilization of Resistive Wall Modes Using Moving Metal Walls	488
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER54619 01/14/2014 Shaing	SC-24.2	Neoclassical Theory and its Applications	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54813 02/28/2014 Sovinec	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	97
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54814 12/14/2014 Sarff	SC-24.2	Reversed Field Pinch Research in MST	6,487
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54831 07/14/2013 Forest	SC-24.2	Liquid Metal Studies of Dynamos	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54821 03/14/2014 Pfotenhauer	SC-24.2	Cryogenic Optimization of D2 Pellet Injectors: Preparation for ITER-Scale Fusion Reactors	75
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54850 04/30/2012 Sovinec	SC-24.2	Transients and Magnetic Relaxation in Innovative Confinement Concepts	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54932 07/14/2011 Boldyrev	SC-24.2	Toward the Theory of Turbulence in Magnetized Plasmas	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER54899 08/14/2011 Schnack	SC-24.2	Center for Wave Interactions With Magnetohydrodynamics	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54868 06/30/2014 Schnack	SC-24.2	Transport and Dynamics in Toroidal Fusion Systems	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER54999 07/31/2014 McKee	SC-24.2	Behavior and Multifield Dynamics of Tokamak Turbulence and Instabilities	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55014 06/14/2012 McKee	SC-24.2	Investigations of Long-Wavelength Turbulence Properties in the Spherical Torus Configuration	226
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-08ER54974 02/14/2016 Schnack	SC-24.2	SciDAC: Center for Extended Magnetohydrodynamic Modeling/Transport and Dynamics in Toroidal Fusion Systems	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-08ER54975 02/14/2016 Sovinec	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	132
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54939 07/31/2013 Hegna	SC-24.2	Communication Support for U.S. Burning Plasma Organization	85

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER55072 04/14/2015 Boldyrev	SC-24.2	RECOVERY ACT - Scaling Laws in Magnetized Plasma Turbulence	750
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55049 08/14/2012 Boldyrev	SC-24.2	Study of Nonlinear Interaction and Turbulence of Alfvén Waves in LAPD Experiments	59
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER63249 09/14/2011 Liu, Kutzbach	SC-23.1	Towards the Prediction of Decadal to Centennial Climate Processes in the Coupled Earth System Model	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64167 12/14/2012 Tobin, Turner	SC-23.1	Evaluating Radiative Closure in the Middle-to-Upper Troposphere	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER64494 11/30/2012 Donohue	SC-23.2	Great Lakes Bioenergy Research Center	24,027
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER64495 09/14/2012 Noguera	SC-23.2	Networks Impacting Solar-Powered Hydrogen Production	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65111 08/31/2011 Liu	SC-23.1	Synthesis of Transient Climate Evolution of the Last 21-kyr (SynTraCE-21) - Workshop Support, October 9-13, 2010	15
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65108 09/14/2013 Vimont	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Niño in a Changing Climate	46
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER64858 08/31/2012 Xu	SC-23.1	The Role of Nanopores on U(VI) Sorption and Redox Behavior in U(VI)-Contaminated Subsurface Sediments	99
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65057 08/31/2013 DeJesus	SC-23.2	Multimodality Plant Imaging Using Small Peptide Derivatives	873
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER64754 05/14/2012 Roden	SC-23.1	Physiological Models of Microbial Redox Metabolism in Uranium(VI)-Contaminated Subsurface Sediments	259
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER64593 07/31/2012 Liu	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	125
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-10ER65114 09/14/2013 Tsonis	SC-23.1	Collaborative Research: An Interactive Multi-Model for Consensus on Climate Change	85
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64428 07/14/2011 Kravtsov	SC-23.1	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	0
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64382 03/31/2012 Saffarini	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0

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WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-84ER45076 10/31/2011 Saldin	SC-22.21	Electron Scattering from Surfaces	108
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-06ER46277 12/31/2011 Lyman	SC-22.21	Probing Surfaces and Nanostructures with Surface X-ray Diffraction: Application of a Direct Method for the Visualization of	189
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-05ER46228 08/14/2012 Li	SC-22.21	Tailoring Magnetism in Epitaxial Graphene on SiC	185
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-09ER16114 09/14/2012 Ourmazd	SC-22.11	SISGR - Structure From Fleeting Illumination of Faint Spinning Objects in Flight	149
Total for WI :				60,928



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
SHALL UNIVERSITY RESEARCH CORP Huntington, WV	DE-FG02-10ER65022 09/14/2014 Maher	SC-23.2	Center for Diagnostic Nanosystems	4,765
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER16164 05/31/2013 Lewis	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of Carbon-Dioxide	112
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46507 06/30/2012 Lederman	SC-22.21	Hydrogen Absorption in Pd-Based Nanostructures	10
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46505 06/30/2012 DiFazio	SC-22.21	Land Reclamation for Bioenergy: Genomics of Adaptation of Populus to Marginal Sites	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-09ER46615 08/14/2012 Nix	SC-22.21	Experimental Investigation of Turbine Vane Heat Transfer for Alternative Fuels	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER46299 07/31/2013 Bajura	SC-22.21	Direct Utilization of Coal Syngas in High Temperature Fuel Cells: Debradation Mechanisms and Lifetime Predictions	50
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER46714 07/14/2013 Scime	SC-22.21	Two Photon Absorption Laser Induced Fluorescence for Neutral Hydrogen Profile Measurements	569
Total for WV :				5,536

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WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15979 11/30/2011 Roddick	SC-22.13	Highly Oxidizing Excited States	115
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15972 08/31/2014 Parkinson	SC-22.13	Combinatorial Discovery and Optimization of the Composition, Doping and Morphology of New Oxide Semiconductors for Efficient Photoelectrochemical Water Splittin	190
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER26029 08/31/2013 Ginting	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational	24
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-09ER46614 08/14/2012 Naughton	SC-22.21	Investigation of Dynamic Aerodynamics and Control of Wind Turbine Sections Under Relevant Inflow/Blade Attitude Conditions	45
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46708 06/30/2013 Lewis	SC-22.21	X-Ray Diffraction and Neutron Scattering Structural Analysis of Natural and Synthetic Spider Silk Fibers	570
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46728 08/14/2013 Parish	SC-22.21	Wyoming DOE EPSCoR: Quantum Dot Sensitized Solar Cells Based on Ternary Metal Oxide Nanowires	1,933
Total for WY :				2,877
Grand Total:				038,333