

Ahmed, Zeeshan, SLAC National Accelerator Laboratory, Menlo Park, CA, “Development of High-Density Microwave-Multiplexed Transition Edge Sensor Bolometers for Next-Generation CMB Cameras,” selected by the Office of High Energy Physics.

Allred, Jared M., The University of Alabama, Tuscaloosa, AL, “Investigation of Short-Range Ordering in Transition Metal Compounds by Diffuse Scattering,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

Bouskill, Nicholas J., Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, “Microbial Environmental Feedbacks and the Evolution of Soil Organic Matter,” selected by the Office of Biological and Environmental Research.

Chipps, Kelly A., Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, “Next-Generation Particle Spectroscopy at FRIB: A Gas Jet Target for Solenoidal Spectrometers,” selected by the Office of Nuclear Physics.

Collins, Brian A., Washington State University, Pullman, WA, “Polarized Resonant X-ray Scattering to Measure Molecular Orientation and Conformation in Organic Nanostructures,” selected by the Office of Basic Energy Sciences.

DeCaluwe, Steven C., Colorado School of Mines, Golden, CO, “Flow-Through Neutron Reflectometry - An *In Operando* Sample Environment for Active Polymer Interface Studies,” selected by the Office of Basic Energy Sciences.

Devineni, Naresh, The City College of New York, New York, NY, “Multi-scale Modeling of Extreme Events and Impact Information,” selected by the Office of Biological and Environmental Research.

Dietrich, Matthew R., Argonne National Laboratory (ANL), Lemont, IL, “Future Directions in the Hunt for the Electric Dipole Moment of Radium,” selected by the Office of Nuclear Physics.

Du, Qiang, Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, “Scalable Control of Multidimensional Coherent Pulse Addition for High Average Power Ultrafast Lasers,” selected by the Office of High Energy Physics.

Fan, Jiwen, Pacific Northwest National Laboratory (PNNL), Richland, WA, “Understanding Severe Thunderstorms in the Central United States,” selected by the Office of Biological and Environmental Research.

Fiuza, Frederico, SLAC National Accelerator Laboratory, Menlo Park, CA, “Particle Acceleration in High-Energy-Density Plasmas: from Astrophysics to the Laboratory,” selected by the Office of Fusion Energy Sciences.

Flannigan, David J., University of Minnesota, Minneapolis, MN, “Imaging Nanoscale Energy Transport and Conversion with Ultrafast Electron Microscopy,” selected by the Office of Basic Energy Sciences.

Frontiera, Renee R., University of Minnesota, Minneapolis, MN, “Determination of Vibrational Motions Driving Photoinduced Electron Transfer Reactions in Molecular Crystals and Organic Thin Films,” selected by the Office of Basic Energy Sciences.

Graham, Kenneth R., University of Kentucky, Lexington, KY, “Surface Ligand Effects on Energetics, Charge Transfer, and Stability at Interfaces Between Metal Halide Perovskites and Organic Semiconductors,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

Green, David L., Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, “Scale-Bridging Simulation of Magnetically Confined Fusion Plasmas,” selected by the Office of Fusion Energy Sciences.

Hergert, Heiko, Michigan State University, East Lansing, MI, “Advanced *Ab Initio* Methods for Nuclear Structure,” selected by the Office of Nuclear Physics.

Himmel, Alexander I., Fermi National Accelerator Laboratory (FNAL), Batavia, IL, “Seeing Neutrinos: The Physics Potential of Photon Signals in DUNE,” selected by the Office of High Energy Physics.

Hixon, Amy E., University of Notre Dame, Notre Dame, IN, “Understanding the Chemical Complexity of Multi-Component Systems: Uranium Polyoxometalates as Nanosorbents,” selected by the Office of Basic Energy Sciences.

Hooberman, Benjamin, University of Illinois, Champaign, IL, “Probing Naturalness with Searches for Supersymmetric Higgs Partners at the Large Hadron Collider,” selected by the Office of High Energy Physics.

Hunt, Benjamin M., Carnegie Mellon University, Pittsburgh, PA, “Proximity Effects and Topological Spin Currents in van der Waals Heterostructures,” selected by the Office of Basic Energy Sciences.

Kacher, Josh, Georgia Institute of Technology, Atlanta, GA, “Fundamental Study of Fatigue Crack Initiation at Grain Boundaries in Austenitic Stainless Steel,” selected by the Office of Basic Energy Sciences.

Kiran, Mariam, Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, “Large-scale Deep Learning for Intelligent Networks,” selected by the Office of Advanced Scientific Computing Research.

Koven, Charles D., Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, “Vegetation Dynamical Responses to Multivariate Extremes in the Western US,” selected by the Office of Biological and Environmental Research.

Law, Stephanie, University Of Delaware, Newark, DE, “Unique Optical Excitations in Topological Insulators,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

Lin, Lin, University of California, Berkeley, Berkeley, CA, “Green's Function Methods for Multiphysics Simulations,” selected by the Office of Advanced Scientific Computing Research.

Long, Brian K., The University of Tennessee, Knoxville, TN, “Advancing Polymeric Gas Separation Membranes through Molecular Engineering,” selected by the Office of Basic Energy Sciences.

Longland, Richard L., North Carolina State University, Raleigh, NC, “Measurements at the Facility for Experiments of Nuclear Reactions in Stars (FENRIS),” selected by the Office of Nuclear Physics.

Lopata, Kenneth, Louisiana State University and A&M College, Baton Rouge, LA, “First-Principles Tools for Nonadiabatic Attosecond Dynamics in Materials,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

LoVerde, Marilena, SUNY Stony Brook University, Stony Brook, NY, “Discovering Dark Energy, Dark Matter, and Neutrino Properties with Cosmic Structure,” selected by the Office of High Energy Physics.

Mansoorabadi, Steven O., Auburn University, Auburn, AL, “Mechanistic Studies of a Primitive Homolog of Nitrogenase Involved in Coenzyme F430 Biosynthesis,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

Mikhailova, Julia M., Princeton University, Princeton, NJ, “Attosecond Light-Field Control of High-Density Plasmas,” selected by the Office of Fusion Energy Sciences.

Nanni, Emilio A., SLAC National Accelerator Laboratory, Menlo Park, CA, “High-Gradient Accelerators at THz Frequencies,” selected by the Office of High Energy Physics.

Neuscammann, Eric W., University of California, Berkeley, Berkeley, CA, “Modeling Charge Transfer Excitation with Variation After Response Quantum Monte Carlo,” selected by the Office of Basic Energy Sciences.

Ostrowski, James, The University of Tennessee, Knoxville, TN, “Symmetric Convex Sets: Theory, Algorithms, and Application,” selected by the Office of Advanced Scientific Computing Research.

Perepelitsa, Dennis V., University of Colorado, Boulder, CO, “Searching for Parton Energy Loss in Quark-Gluon Plasma Droplets,” selected by the Office of Nuclear Physics.

Peterka, Tom, Argonne National Laboratory (ANL), Lemont, IL, “A Continuous Model of Discrete Scientific Data,” selected by the Office of Advanced Scientific Computing Research.

Rai, Neeraj, Mississippi State University, Starkville, MS, “Probing Condensed Phase Structure and Dynamics in Hierarchical Zeolites and Nanosheets for Catalytic Upgradation of Biomass,” selected by the Office of Basic Energy Sciences and the DOE Experimental Program to Stimulate Competitive Research.

Rogers, Ted C., Old Dominion University, Norfolk, VA, “Fundamental QCD Theory and Transverse Momentum Dependent Physics,” selected by the Office of Nuclear Physics.

Rompf, Tiark, Purdue University, West Lafayette, IN, “Program Generators for Exascale and Beyond,” selected by the Office of Advanced Scientific Computing Research.

Schneider, Michael D., Lawrence Livermore National Laboratory (LLNL), Livermore, CA, “Dark Energy Constraints from Weak Gravitational Lensing in the Large Synoptic Survey Telescope (LSST),” selected by the Office of High Energy Physics.

Sefkow, Adam B., University of Rochester, Rochester, NY, “Advancement of Hybrid Fluid-Kinetic Modeling Efforts for HEDP and ICF Science (LSST),” selected by the Office of Fusion Energy Sciences.

Senanayake, Sanjaya D., Brookhaven National Laboratory (BNL), Upton, NY, “Unraveling Catalytic Pathways for Low Temperature Oxidative Methanol Synthesis from Methane,” selected by the Office of Basic Energy Sciences.

Shafaat, Hannah S., The Ohio State University, Columbus, OH, “Bringing Inorganic Carbon to Life: Developing Model Metalloenzymes for C1 Conversion Reactions,” selected by the Office of Basic Energy Sciences.

Sharifzadeh, Sahar, Boston University, Boston, MA, “First-Principles Understanding of Optical Excitations within Low-Dimensional Materials,” selected by the Office of Basic Energy Sciences.

Shelton, Jessie F., University of Illinois, Champaign, IL, “Hidden Sectors from Cosmos to Colliders,” selected by the Office of High Energy Physics.

Shen, Siqian, University of Michigan, Ann Arbor, MI, “Extreme-Scale Stochastic Optimization and Simulation via Learning-Enhanced Decomposition and Parallelization,” selected by the Office of Advanced Scientific Computing Research.

Stevens, Justin, The College of William and Mary, Williamsburg, VA, “Strange Mesons and Gluonic Excitations,” selected by the Office of Nuclear Physics.

Suntivich, Jin, Cornell University, Ithaca, NY, “Rational Selection of Transition-Metal Oxide Electrocatalysts from Structure-Electronic Structure-Activity Relations: The Role of Defects, Strain, and Sub-Surface Layering,” selected by the Office of Basic Energy Sciences.

Taş Baas, Neslihan, Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, “Awakening the Sleeping Giant: Multi-omics Enabled Quantification of Microbial Controls on Biogeochemical Cycles in Permafrost Ecosystems,” selected by the Office of Biological and Environmental Research.

Trelewicz, Jason R., SUNY Stony Brook University, Stony Brook, NY, “Enhancing the Performance of Plasma-facing Materials through Solute-stabilized Nanostructured Tungsten Alloys,” selected by the Office of Fusion Energy Sciences.

Trelles, Juan P., University of Massachusetts Lowell, Lowell, MA, “Nonequilibrium Phenomena in Plasmas in Contact with Liquids,” selected by the Office of Fusion Energy Sciences.

Tricoli, Alessandro, Brookhaven National Laboratory (BNL), Upton, NY, “Unveiling the electroweak symmetry breaking mechanism at ATLAS and at future experiments with novel silicon detectors,” selected by the Office of High Energy Physics.

von der Linden, Anja, SUNY Stony Brook University, Stony Brook, NY, “Towards Precision Cluster Cosmology with LSST,” selected by the Office of High Energy Physics.

Ward, Thomas Z., Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, “Designing Metastability: Coercing Materials to Phase Boundaries,” selected by the Office of Basic Energy Sciences.

Weston, David J., Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, “Determining the Genetic and Environmental Factors Underlying Mutualism within a Plant-Microbiome System Driving Nutrient Acquisition and Exchange,” selected by the Office of Biological and Environmental Research.

Willey, Timothy M., Sandia National Laboratories, New Mexico (SNL-NM), Albuquerque, NM, “Enabling Beyond Forward Simulation for Predictive Multiscale Modeling,” selected by the Office of Advanced Scientific Computing Research.

Wrighton, Kelly C., The Ohio State University, Columbus, OH, “Genomes to ecosystem function: Targeting critical knowledge gaps in methanogenesis and translation to updated global biogeochemical models,” selected by the Office of Biological and Environmental Research.

Zhang, Chao, Brookhaven National Laboratory (BNL), Upton, NY, “Optimization of Liquid Argon TPCs for Nucleon Decay and Neutrino Physics,” selected by the Office of High Energy Physics.

Zimmerman, Jeramy D., Colorado School of Mines, Golden, CO, “Understanding and Controlling Aggregation Processes in Mixed-Molecular Solids,” selected by the Office of Basic Energy Sciences.