

# Department of Energy Announces \$3.2 Million for Plasma Science Research

Announcement Number: DE-FOA-0002635

List Posted: 8/4/2022

Principal Investigator	Title	Institution	City	State	9-digit zip code
Carreon, Maria	Understanding boundaries between regimes during the plasma synthesis of ammonia on abundant porous oxide-based catalysts through plasma diagnostics.	University of Massachusetts Lowell	Lowell	MA	01854-3692
Jaiswal, Surabhi	Understanding the melting dynamics of the plasma crystal under the influence of varying magnetic field	Eastern Michigan University	Ypsilanti	MI	48197-8197
Kostadinova, Evdokiya	Energetic Electron Transport in Magnetized Plasma with Magnetic Islands	Auburn University	Auburn	AL	36849-5131
Young, Rachel	Exploring the Behavior of Interplanetary Coronal Mass Ejections through Scaled Laboratory Experiments	Regents of the University of Michigan	Ann Arbor	MI	48109-1274
Levin, Deborah	Benchmarking of High-performance Low-temperature Plasma Particle-in-cell Codes for Modeling Magnetized Plasmas	Board of Trustees of the University of Illinois	Champaign	IL	61820-7406
Abler, Melissa	Laboratory Study of Alfvén Wave Steepening	Space Science Institute	Boulder	CO	80301-2574
Haspel, Gal	Cold atmospheric plasma for promoting neural regeneration	New Jersey Institute of Technology	Newark	NJ	07102-1982
Mehta, Christopher	Formation of Organic Compounds Through Meteoritic Atmospheric Shock	Auburn University	Auburn	AL	36849-5131
Hara, Kentaro	Dynamics of electrified liquid surface during plasma-liquid interaction	Leland Stanford Junior University	Stanford	CA	94063-8445
Gopalakrishnan, Ranganathan	Experiments to validate thermodynamic and transport models of strongly coupled dusty plasma matter	University of Memphis	Memphis	TN	38152-3370
Sankaran, R.	Multiscale Modeling and Laser Diagnostics to Reveal Non-equilibrium Reaction Chemistry at a Plasma-Liquid Water Interface	Board of Trustees of the University of Illinois	Champaign	IL	61820-7406
Anthony, Rebecca	Comprehensive Diagnostics for Bond-Selective Nanocarbon Growth in Plasmas	Michigan State University	East Lansing	MI	48824-2601
Foster, John	Understanding extraction limits of plasma cathodes with experiment and simulation	Regents of the University of Michigan	Ann Arbor	MI	48109-1274
Shashurin, Alexey	Exploring anomalous electron decay in nanosecond repetitively pulsed discharges	Purdue University	West Lafayette	IN	47906-1332
Stapelmann, Katharina	Plasma-Bubble Imaging and Spectroscopy	North Carolina State University	Raleigh	NC	27695-7214
Dudson, Benjamin	Impact of plasma species, neutral collisionality and parallel flows on drift wave turbulence in LAPD	Lawrence Livermore National Laboratory	Livermore	CA	94550-9698
Fox, William	Understanding explosive plasma reorganization via the tokamak sawtooth on DIII-D	Princeton Plasma Physics Laboratory	Princeton	NJ	08540-6655
Ji, Hantao	Study of Alfvén wave reflection to understand the coronal heating problem	Princeton Plasma Physics Laboratory	Princeton	NJ	08540-6655
Wang, Zhehui (Jeph)	Machine learning of microparticle physics in magnetized plasmas	Los Alamos National Laboratory	Los Alamos	NM	87544-0600
Delgado-Aparicio, Luis	Diagnostics and Physics of the Formation, Growth and Suppression of Runaway Electrons in Tokamak Scenarios at MST	Princeton Plasma Physics Laboratory	Princeton	NJ	08540-6655