

# Department of Energy Announces \$1.51 Million for Research on General Plasma Science Collaborative Research Facilities

Announcement Number: DE-FOA-0002890 Research on General Plasma Science

List Posted: 8/23/2023

*Selection for award negotiations is not a commitment by DOE to issue an award or provide funding.*

Principal Investigator	Title	Institution	City	State	9-digit zip code
Underwood, Thomas	Breaking Catalytic Scaling Constraints using Plasma-Enabled Catalysis of Methane for Carbon-Free Hydrogen Production	University of Texas at Austin	Austin	TX	78759-5316
Capece, Angela	Diagnostic Measurements of the Plasma-Liquid Interface for Synthesis of Nanoparticles	College of New Jersey	Ewing	NJ	08628-8628
Jiang, Chunqi	Effects of the pulse repetition frequency and risetime on the electric field of a repetitive nanosecond surface discharge in a fuel-air mixture	Old Dominion University	Norfolk	VA	23508-2561
Raja, Laxminarayan	High-Fidelity Computational Studies of Intermediate Pressure Capacitively Coupled Plasmas	University of Texas at Austin	Austin	TX	78759-5316
Roy, Aditi	In situ Detection of Plasma Induced Surface Interaction based on Deep Learning based Visual Diagnostics	Siemens Corporation	Princeton	NJ	08540-6632
Keidar, Michael	In situ OH and H2O2 imaging measurements in helium-air cold atmospheric plasma for machine learning optimization as an essential part of adaptive plasma for biomedical applications	George Washington University	Washington	DC	20052-0042
Mesbah, Ali	Investigating Kinetic Mechanisms of Soot Formation in Plasma Pyrolysis of Methane via Active Learning	University of California - Berkeley	Berkeley	CA	94704-5940
Bak, Junhwi	Investigation of supersonic electrons in rotation plasma by laser Thomson scattering	Texas A&M University	College Station	TX	77842-3131
Bruggeman, Peter	Mechanisms and Impact of Plasma-Induced Solute Transfer in Plasma-Liquid Interactions	University of Minnesota	Minneapolis	MN	55455-2070
Kortshagen, Uwe	New model for the ion collection by cylindrical probes over a wide range of collisionality	University of Minnesota	Minneapolis	MN	55455-2070
Foster, John	Photo-detachment Studies of the Role of Negative Ions in Plasma Self-Organization	University of Michigan	Ann Arbor	MI	48109-1274
Starikovskiy, Andrey	Photoionization mechanism of branching of streamer discharge in air	Princeton University	Princeton	NJ	08544-2020
Gutsol, Alexander	Study of intense cavitation-assisted electric discharge	LDS Technology Consultants Inc.	Corpus Christi	TX	78413-5628
Yalin, Azer	Support for Raman Scattering and Optical Emission Studies of Dual-Pulse Laser Induced Plasma with Pre-Ionization at PCRF	Colorado State University	Fort Collins	CO	80523-2002
Miller, Vandana	To investigate the reciprocal interactions between dielectric barrier discharges and different biological targets in cell culture medium	Drexel University	Philadelphia	PA	19102-1119
Barada, Kshitish	Turbulence spreading control by edge ExB shear profile modification	University of California - Los Angeles	Los Angeles	CA	90095-1406
Bose, Sayak	Study of Alfvén wave reflection using experiments and simulations	Princeton Plasma Physics Laboratory	Princeton	NJ	08544-2020