

Program - International Online Plasma Seminar (IOPS)

Presentations begin at 1:00 pm UTC on Thursdays

Date (mm/dd/yyyy)	Speaker (Affiliation)	Presentation
11/9/2023 Research Highlight	Renwu Zhou (Xi'an Jiaotong University)	Sustainable plasma chemistry towards nitrogen fixation
11/9/2023 Research Highlight	Sirui Li (Eindhoven University of technology)	Plasma-integrated process for CO ₂ capture and conversion
11/23/2023 Tutorial/Review	Joao Santos-sousa (Laboratoire de Physique des Gaz et des Plasmas (LPGP) CNRS & Université Paris-Saclay)	Low Temperature Plasmas for Cancer Treatment
12/7/2023 Research Highlight	Andrew Tasman Powis (Princeton University, PPPL)	Low-Cost Kinetic Simulations of Capacitively Coupled Plasma Discharges using the Energy-Conserving Particle-in-Cell Method
12/7/2023 Research Highlight	Rodrigo Antunes (Max Planck Institute for Plasma Physics, Garching)	Proof of concept for O ₂ removal with multiple LCCF membranes accommodated in the effluent of a CO ₂ plasma torch
12/21/2023 Research Highlight	Hongtao Zhong (Stanford University)	Understanding non-equilibrium chemistry for carbon capture and utilization

12/21/2023 Research Highlight	Allison Harris (Illinois State University)	Estimating Electron-Molecule Ionization Cross Sections using Machine Learning
1/4/2024 Tutorial/Review	Zoltan Donko (Wigner Research Center for Physics, Hungary)	Integration of a collisional radiative model into the particle-in-cell simulation of low-pressure capacitively coupled argon plasmas
1/18/2024 Research Highlight	Martina Mrkvičková (Masaryk University, Czech Republic)	Electric field in APTD in nitrogen determined by EFISH, FNS/SPS ratio, α -fitting and electrical equivalent circuit model
1/18/2024 Research Highlight	Yaolin Wang (University of Liverpool)	Boosting Ambient Plasma-Catalytic Ammonia Synthesis with a Mesoporous Catalyst Shielding Protection Strategy
2/1/2024 Research Highlight	Wenjun Ning (Sichuan University)	Interaction between atmospheric pressure plasma jets and surfaces with complex morphologies
2/1/2024 Research Highlight	Milos Skocic (Faculty of Physics, University of Belgrade, Studentski trg 12, Belgrade, Serbia)	Experimental investigations and spectroscopic analysis of a laser-induced breakdown on a solid surface, studying temperature changes, plasma formation, and absorption properties at different stages of the process
2/15/2024 Research Highlight	Marco Acciarri (University of Michigan)	Strong correlation effects in atmospheric pressure plasmas

2/15/2024 Research Highlight	Umedjon Khalilov (Arifov Institute of Ion-plasma and Lase Technologies, Academy of Science of the Republic of Uzbekistan, Uzbekistan)	Effect of Plasma-Based Species on Carbon Nanostructure Growth: A Computational Approach
2/29/2024 Tutorial/Review	Pankaj Attri (Center of Plasma Nano-interface Engineering, Kyushu University, Fukuoka, Japan)	Nonthermal plasma application from protein folding to gas conversion
3/14/2024 Research Highlight	Jamoliddin Razzokov (Institute of Fundamental and Applied Research, National Research University TIAME)	Molecular Insights into Cancer Cell Fate: the Role of Oxidation on Apoptosis-Preventing Proteins
3/14/2024 Research Highlight	Ivan Romadanov (Princeton Plasma Physics Laboratory)	A confocal laser-induced fluorescence diagnostic with an annular laser beam
3/28/2024 Tutorial/Review	Shaojun Xu (Hefei University of Technology)	Non thermal plasma with metal-organic frameworks (MOFs) for challenging catalytic processes
4/11/2024 Research Highlight	Wei Zhang (Institute of Plasma Physics, Chinese Academy of Sciences)	Interaction between radio-frequency wave and edge plasma in fusion devices
4/11/2024 Research Highlight	Aleksandar Jovanović (Leibniz Institute for Plasma Science and Technology (INP))	Introduction of FEDM, the Finite Element Discharge Modelling code

4/25/2024 Hyo-Chang Lee (Korea
Tutorial/Review Aerospace University)

Plasma control for nanomaterial
and semiconductor processing