Joint International Conference on
The 8th ICMAP & The 9th ISFM
January 17-20, 2021 l Online Conference

[MC3] 2D Plasma Modeling and Simulation Techniques III

Date / Time: January 18 (Mon.), 2021 / 16:10-18:00
Place: Channel C
Session Chair(s): Yuan-Hong Song (Dalian Univ. of Tech., China)
Hai-Xing Wang (Beihang Univ., China)

[MC3-1] Keynote 16:10-16:50
Realistic Simulations of Low Pressure Capacitive Radio Frequency Plasmas Operated at Low Frequencies and High Voltage
Julian Schulze, Peter Hartmann, Li Wang, Birk Berger, Sebastian Wilczek, Katharina Noesges, Eunwoo Lee, Thomas Mussenbrock, Ralf Peter Brinkmann, and Zoltan Donko
1Ruhr-Univ. Bochum, Germany, 2Wigner Research Center, Hungary, 3Samsung Electronics Co. Ltd, Korea

[MC3-2] Invited 16:50-17:20
2D Particle-in-Cell Simulations of Geometrically Asymmetric Capacitive RF Plasmas Driven by Tailored Voltage Waveforms Including Realistic Plasma-Surface Interactions
Li Wang, Peter Hartmann, Zoltan Donko, Yuan-Hong Song, and Julian Schulze
1Dalian Univ. of Tech., China, 2Ruhr-Univ. Bochum, Germany, 3Wigner Research Centre for Physics, Hungary

[MC3-3] 17:20-17:40
Investigation of Electrode Bias Effect on Plasma Series Resonance Formation of VHF Driven Asymmetric Electrode CCP Using Transmission Line Model
Ingyu Lee, Taejun Park, Sang-Won Ryu, and Gon-Ho Kim
Seoul Nat'l Univ., Korea

[MC3-4] 17:40-18:00
Kinetic Simulation of Nanosecond Pulsed Discharges at Atmospheric Pressure
Shuhan Gao, Xucheng Wang, and Yuantao Zhang
Shandong Univ., China