

Joint International Conference on The 8th ICMAP & The 9th ISFM

January 17-20, 2021 | 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 Schulze¹, Peter Hartmann², Li Wang¹, Birk Berger¹, Sebastian Wilczek¹, Katharina Noesges¹, Eunwoo Lee³, Thomas Mussenbrock¹, Ralf Peter Brinkmann¹, and Zoltan Donko²

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^{1,2}, Peter Hartmann³, Zoltan Donko³, Yuan-Hong Song¹, and Julian Schulze^{1,2}

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