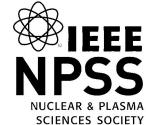


IEEE TRANSACTIONS ON PLASMA SCIENCE

A PUBLICATION OF THE IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY



SEPTEMBER 2016 VOLUME 44 NUMBER 9 ITPSBD (ISSN 0093-3813)

PART II OF TWO PARTS

REGULAR PAPERS

Basic Processes in Fully and Partially Ionized Plasmas

Tetrahedral Fluid Method Applied to FDTD for Simulation of Transient Behaviors of High-Energy Collisionless Plasmas	A. Haghdel, H. Abiri, M. Haghdel, and M. R. Eskandari	1769
Quasi-Equilibrium Model for Separating the Plasma and the Conductor in the Galatea Device	B. Tao, W. Tong, X. Jin, and Z. Li	1779

Microwave Generation and Microwave-Plasma Interaction

Study of the Symmetrical Microstrip Angular Log-Periodic Meander-Line Traveling-Wave Tube	S. Wang, Y. Gong, Z. Wang, Y. Wei, Z. Duan, and J. Feng	1787
Experimental Validation of Slow-Wave Phenomena in Curved Ring-Bar Slow-Wave Structure	M. Zuboraj, U. Chipengo, N. K. Nahar, and J. L. Volakis	1794
Hybrid Mode in Traveling-Wave Tube With Partially Plasma-Loaded Helix and Hollow Electron Beam	F. Shahi and S. Saviz	1800

Industrial, Commercial, and Medical Applications of Plasmas

Destructive Effect of DBCD Plasma on HBsAg in Human Blood and Its Impact on Erythrocyte Functions	X.-M. Shi, J.-W. Li, L.-Z. Zhu, S.-L. Chen, X.-L. Wu, G.-M. Xu, X.-X. Long, J. Liang, C.-W. Yao, W.-L. Liao, J.-F. Cai, S.-H. Zhang, and G.-J. Zhang	1815
Efficiency Enhancement of PIC-MCC Modeling for Magnetron Sputtering Simulations Using GPU Parallelization	I. Sohn, J. Kim, J. Bae, and J. Lee	1823
Regeneration of Activated Carbon Spent with Phenol and Formation of Hydrogen Peroxide in a Pulsed Discharge Plasma System	H. Wang, H. Guo, Y. Liu, C. Yi, and J. Chu	1834

Pulsed Power Science and Technology

A Variable Resistance Thyristor-Type Switch Modeling Technique	M. B. Walls, A. Fierro, J. Dickens, J. Mankowski, and A. Neuber	1842
--	---	------

Arches & MHD

Effects of Arcing in Air on the Microstructure and Morphology of Silver-Based Contact Materials in Correlation With Their Electron Emission Properties	M. Akbi	1847
--	---------	------

ANNOUNCEMENTS

Call for Papers—Special Issue for Selected Papers from EAPPC/BEAMS/MEGAGAUSS 2016	1858
---	------