PPPS 2019

Monday, 24 June 2019

<u>Posters Fundamental Research and Basic Processes and Power Electronics</u> **- Universal Center (13:00 - 14:30)**

   -Conveners: Emily Schrock; John W. Luginsland

[id] title	presenter	board
[628] 1P03 - Phase mixing and collisionless dissipation at the boundary sheath of magnetized low temperature plasmas	Mr KRÜGER, Dennis	
[762] 1P09 - Electron emission in liquids	Ms LANG, Sarah	
[763] 1P10 - Unification of thermionic, field and space charge limited emission	Ms LANG, Sarah	
[777] 1P11 - Investigating transport properties of collisionless magnetized plasmas in pulsed power systems via high-order kinetic simulations	VOGMAN, Genia	
[676] 1P07 - Density rise away from the antenna in a helicon plasma source following resonance cone absorption in a diverging axial magnetic field	PANDEY, Arun	
[759] 1P08 - Investigation of Electron Emission Characteristics of Multi-finger Ferroelectric Trigger Source for Pseudospark Switch	PAL, Udit Narayan	
[795] 1P12 - Quantifying Streamer Dynamics for Azimuthally Swept 3D Wedges in Pin-to-Plane PIC-DSMC Simulations	JINDAL, Ashish	
[999] 1P17 - Spontaneous density variations observed in steady-state plasmas sustained using focused microwaves.	Dr REID, Remington Mr LOPEZ, Adrian	
[979] 1P15 - Determination of First Townsend Ionization Coefficient by Simulation	CROSSETTE, Nathan	
[993] 1P05 - Investigation of Electron Emission using Molecular Dynamics Simulations	Ms LOVELESS, Amanda	
[958] 1P33 - Advanced optimization and machine learning for magnetron design	Dr SPIRKIN, Anton	
[1072] 1P38 - Thermodynamic properties and transport coefficients of C4F7N/CO2 thermal plasma as an alternative to SF6	Mr ZHANG, Lisong	
[610] 1P47 - Electron heating mode transitions in a capacitively coupled oxygen discharge	Prof. GUDMUNDSSON, Jon Tomas	
[1169] 1P23 - Remote plasma assisted graphene growth for designing graphene/Si hetero-interfaces	MEDWAL, Rohit	
[1236] 1P24 - DESIGN,bUILD, AND TEST OF A LOW COST 3D PRINTED SPECTROMETER FOR EXPLOSIVE COPPER AND CONDUCTIVE POLYMER WIRE EXPERIMENTS	Prof. JOHNSTON, Mark D Prof. SCHAMILOGLY, Edl	
[1218] 1P39 - A High Order Convected Scheme Solution of the Wigner-Poisson System	Mr LINK, Matthew	
[1228] 1P61 - Effects of non-Maxwellian electron energy distribution function on plasma chemistry in Cl$_2$ and CF$_4$	WANG, Xifeng	
[1225] 1P60 - DETAILED GAS ANALYSIS IN NANO SECOND PULSED NON-EQUILIBRIUM PLASMA PROCESSING OF HYDROCARBONS FOR MASS BALANCE	Mr BHUIYAN, Shariful Islam	
[1062] 1P57 - Generation of carbon monoxide from carbon dioxide using nanosecond pulsed discharge	ICHIKI, Tatsuya	

[1285] 1P63 - Spectroscopic investigation of air excited and ionized by an electron beam*	JACKSON, S. L.	
[537] 1P73 - High Rate Charge and Discharge of High Voltage Capacitors*	Mr MARTINEZ, Christopher	
[818] 1P75 - Multi-pulse performance of amorphous metal magnetic cores at high magnetization rates	ACOSTA-LECH, Daisy	
[626] 1P02 - Implications of surface roughness on microscale gas breakdown theory	Ms MALAYTER, Jacqueline Ms LOVELESS, Amanda Dr GARNER, Allen	
[1260] 1P65 - Development of a plasma source to accommodate an LIF dip measurement system	Ms SMITH, Jenny	
[655] 1P04 - RF Gas Breakdown Theory and Experiment as a Function of Gas, Gap Size, Frequency, and Pressure	LOVELESS, Amanda	
[988] 1P68 - Compact Rapid Capacitor Charger for Mobile Marx Generator Applications	Dr BILBAO, Argenis	
[1286] 1P81 - E-band Power Combining Experiment for High Power Millimeter Waves*	ELFRGANI, Ahmed	
[504] 1P71 - Ablation and Breakdown Characteristics of High Current Gas Spark Switch with Different Profiles	Mr WANG, Yu	
[573] 1P46 - Numerical simulation of a spark channel expansion in water and its comparison with an experimental result	STELMASHUK, Vitaliy	
[549] 1P55 - Pulsed power-induced CO2 dissociation for CO production	Dr HOEBEN, Wilfred	
[727] 1P67 - Design of High-Voltage Pulse Generator Control System for CSNS Linac RF System	Mr WAN, Maliang	
[536] 1P72 - Measurement of Diode Reverse Recovery Losses as a Function of Switching Frequency*	Mr MARTINEZ, Christopher	
[569] 1P79 - An Eigenvalue Approach to Study SPIDER RF Oscillator Operating Space	GASPARINI, Ferdinando	
[1274] 1P40 - Data storage of particle-in-cell simulations for big data analysis of capacitively coupled plasma reactors	Ms KIM, Yeun Jung	
[1159] 1P76 - Compatibility of SLA and FDM printed components with common insulating oils	OTTESEN, Casey	
[977] 1P42 - Momentum Coupling in Magnetized Plasmas	Dr COOKE, David	
[800] 1P30 - Progress Porting VPIC to Several Modern Architectures	Dr NYSTROM, William	
[824] 1P31 - Speed-Limited Particle-in-Cell Modeling of Low-Temperature Plasma Discharges	Dr JENKINS, Tom	
[1309] 1P66 - What different effects can be taken by different liquid-dissolved gases on the concentration of aqueous RONS?	YANG, YING	
[1258] 1P25 - Dielectric Elastomers: An Investigation in Strain Dependent Electrostatic Pressure of Soft Compliant Dielectrics	Mr ONYENUCHEYA, Barnard	
[1292] 1P26 - Catalytic and Acoustic Nano/Micromotors	Prof. UYGUN OKSUZ, Aysegul	
[1048] 1P21 - Submicroscale Gas Breakdown as a Function of Cathode Protrusions	BRAYFIELD, Russell	
[996] 1P35 - MODELING POWER-FLOW USING THE PERSEUS/FLEXO AND HYDRA MHD SIMULATION CODES	HAMLIN, Nathaniel	
[1277] 1P41 - A Fluid Solver approach via Discontinuous Galerkin Methods to Viscoelastic Models for dense plasmas	Dr GUTHREY, PIERSON	

[994] 1P43 - Experimental Investigation of Colliding Plasma Flows	HAMILTON, Andrew	
[1217] 1P45 - Laboratory Simulations of Solar Wind Interactions with Airless Bodies: Magnetic Anomalies and Wakes	MUNSAT, Tobin	
[590] 1P56 - Modeling of the Plasma Chemistry in an Electron Beam Induced Discharge*	Dr PETROVA, Tzvetelina	
[984] 1P82 - High Power Ćuk Converter for Fusion Science Applications	Mr HENSON, Alex	
[1320] 1P84 - Plasma water treatment and oxidation of organic matter in water	Dr WRIGHT, Kamau	
[660] 1P16 - MODELING ELECTRODE CONFIGURATIONS FOR NANOSECOND PULSED PLASMAS	ISNER, Nancy	
[1182] 1P69 - A Compact 100 kW high-voltage power supply with balanced bipolar output	Dr CHAPARRO, Jordan	1
[1031] 1P37 - Diode Design For Increased Radiation Dose in HERMES III Far-Field	Mr POWELL, Troy Mr BILLER, Andy	3