

2016 IEEE Power Modulator and High Voltage Conference

Thursday, 7 July 2016

Poster 2-A - Twin Peaks (13:30 - 15:00)

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[214] High-Current Arc Discharge (HCAD) Test System for Aeronautic Power	NUNNALLY, Clay	
[210] Research on 10kV cascade pulse power supply for discharge applications	SHAO, Tao REN, chengyan	
[211] Experimental Study on Variations of Rabbit Tissue Impedance during Irreversible Electroporation Ablation	Mr YAO, chenguo DONG, shoulong Mr ZHAO, yajun	
[264] Picosecond Pulse Delivery to Biological Tissue by a Dielectric Rod Antenna	Mr PETRELLA, Ross	
[83] Fast Medium Voltage DC Solid-State Circuit Breaker	Mr KEMPKES, Michael	
[312] Tokamak Vertical Stability Coil Power Supply based on Modular Multilevel Converter	Mr LEE, Inhwan	
[288] A Uniform Electric Field Producing Microfluidic Chip for Study and Analysis of Irreversible Electroporation	Mr GONG, Lingyu	
[298] A Control System for an Isolated LLC Resonant DC-DC Converter	Prof. MOTTA, Claudio	
[321] Analysis of Fault Characteristics of Converter in VSC-HVDC	Mrs SUN, Xiaoyun	
[122] Experimental Study on Reverse Recovery Characteristics of High Power Thyristors in HVDC converter valve	Ms YUE, Ke	
[251] Electric Pulse Parameter Exploration for Lipid Extraction from Microalgae	GARNER, Allen	
[261] 15-Stage Compact Marx Generator Using 2N5551 Avalanche Transistors	Dr HUISKAMP, Tom	
[271] Experimental study of a helical coil operating mechanism for future switchgear applications	NIKOLIC, Paul Gregor	
[315] Research on Calibration Method for Single High Pulse Voltage for Semiconductor Devices Test Instruments	Prof. LIU, CHONG	
[306] Optimized Small Scale Hydropower Generator Electrical System Design & Modeling Based on Real-Measurements	Dr EL SHAHAT, Adel	
[101] A Comparison of Piezoelectric Transformer Technologies for HVDC Converter Applications	NORGARD, Peter	
[319] A ZCS AC/DC Converter with LCL	Prof. LI, GE	
[223] Fuzzy Logic Control of a Hybrid Energy Storage Module for Naval Pulsed Power Applications Using a Hardware-in-the-Loop Testbed	Mr COHEN, Isaac	
[305] Energy Storage Modeling Library (ESML) for DC NANO- GRID	EL SHAHAT, Adel	
[188] CHARGE-TRANSFER BASED SENSORLESS VOLTAGE FEEDBACK IN HV CAPACITOR CHARGERS	Mr BILBAO, Argenis Dr GIESSELMANN, Michael	
[158] Study of Effects of Nanosecond Pulsed Electric Fields on Cancer Cell by using in Vivo and ex vivo Assay.	OGURA, Shun	
[206] Electric Pulse Manipulation of Stem Cell Proliferation and Differentiation		

[326] Down Hole Pulse Generator Must Survive 300 C at 9 km Depth: Low-cost Access to Ubiquitous Geothermal Heat Worldwide	Mr LEIGHTY, William	
[304] Nano-Grids: Future Power Grids – Concept and Review Paper	EL SHAHAT, Adel	
[160] Effect of the Number of Inner Wire Electrodes on Surfactant Treatment Using Nanosecond Pulsed Powers	Mr MORIMOTO, Mitsuru	
[281] Impact of Pulsed Power Loads on Advanced Aircraft Electric Power Systems with Hybrid Fuel-Cell/Battery APU	Mr EL-KISHKY, Hassan	
[309] Special Purpose Power Electronics Converters for Nano-Grids & Smart Homes Applications	Dr EL SHAHAT, Adel	
[225] Auto-Tuning Oscillator for the Generation of Nonthermal Plasma as a Therapeutic Treatment for Melanoma	THOMPSON, Kyle	
[337] Treatment of Aqueous Pollutant by a Discharge Plasma Reactor Using a Porous Membrane	Mr MORI, Tomohiro	
[212] Investigation of Harmonic Distortion in Multi-Pulse Rectifiers for Large Capacitive Charging Applications	Mr DODSON, David	
[283] Evaluation of Rotational and Vibrational Temperature of Nanosecond Pulsed Surface Discharge on Water	Mr SADAMATSU, Takahiro	
[297] Pulsed power as the main tool of energy-efficient non-thermal microbiological decontamination		
[250] Closed Transition Transfer Switch based on Multi-mode Photovoltaic Inverter for Preventing Power Outage	HEO, Sewan	
[164] Development of high power burst pulse generator based on magnetic switch for bioelectrics application	YASU, Keita	
[318] Impact of Wind on Pollution Accumulation Rate on Outdoor Insulators Near Shoreline	HUSSAIN, Muhammad Majid	
[275] Study on inducing apoptosis and stimulating the irreversible electroporation effect for tumor treatment based on high frequency nanosecond pulsed electric field		
[108] Thermal and Efficiency Study of a solid-state dual Marx generator combined a pulse transformer	Prof. LIU, Kefu	
[338] CONTINUOUS SWITCHING OF ULTRA-HIGH VOLTAGE SILICON CARBIDE MOSFETS		
[68] Effects of Algae on the Flashover Performance of Insulators Covered with RTV-Coating	Dr LI, Yawei	
[183] Molecular Dynamics Based Assessment of Electric Pulse Enhancements of Cell Membrane Poration by Pressure Waves	ZHANG, Ze	
[202] Research of Muscle Contraction and the Effects of Tissue Ablation in Vivo Exposed to High-Frequency Electric Fields	Mr YAO, chenguo DONG, shoulong	
[156] Effect of brine and temperature in sterilization using nanosecond pulsed electric field for packaged fresh foods	Mr SAITO, Koki	
[159] Observation of Discharges in NOx Treatment Reactor Using Nanosecond Pulsed Powers and the Reactor Improvement	Mr OMATSU, Kouji	
[112] Electric Pulse Modification of Mammalian Cell Suspension Conductivity		

[277] Basic design and results of Regulated high voltage power supplies utilized for heating systems at IPR for SST-1	Mr SUMOD, C.B. Sumod Mr DIPAL, Dipal Thakkar Mr LAXMINARAYAN, L.N. Gupta Mr PARESHKUMAR, Pareshkumar Mr UJJWAL, U.K.Baruah	
[203] On the Circulating Current Control of a LCL Converter for Tokamak	Mr LI, Huarong	
[126] Multi-Parameter Analysis in Single-cell Electroporation Based on the Finite Element Model	Dr YAO, Chenguo Ms LIU, Hongmei	
[348] Review and Recent Developments in DC Arc Fault Detection	Dr YAO, Xiu	