

PPPS 2019

Wednesday, 26 June 2019

Poster - Industrial/Commercial/Medical Applications and Plasma and Pulse Power Diagnostics - Universal Center (13:30 - 15:00)

-Conveners: Yunping Zhang; Li Lin; Shutong Song

| [id] title | presenter | board |
|---|---------------------------------|-------|
| [627] 3P13 - Corona Discharge Induced Submicron Water Droplet Coalescence and Growth in a Subsaturated Cloud Chamber | Dr WANG, Pengyu Dr LI, Chuan | |
| [849] 3P64 - Time-resolved ATR-FTIR to Reveal inactivation Kinetics of E. coli by Atmospheric DBD Plasma | Dr ZHANG, Liyang | |
| [825] 3P51 - A Bipolar High Voltage Pulse Generator Used for Irreversible Electroporation Ablation | LI, Lanxi | |
| [870] 3P62 - Improved electrode configuration for the production of plasma activated water | JIN, Yun Sik | |
| [867] 3P58 - The Influence of Applying High Electrical Field Pulses on Unfolded Protein Response of cells | Mr IZUTANI, Akira | |
| [497] 3P01 - Novel High Voltage Pulsing to Generate Uniform Glow Discharge Air Plasma for Environment Friendly Inline Treatment of Textile | Dr JAIN, Vishal | |
| [647] 3P14 - Argon cold atmospheric pressure plasma jet enhancing seed germination and seedlings growth of fenugreek (<i>Trigonella foenum-graecum</i>) | Dr MOHAMED, Abdel-Aleam | |
| [952] 3P04 - Spectroscopic Measurement of Active Species Generated in Streamer Discharge on Water Surface | Prof. SAKUGAWA, Takashi | |
| [969] 3P05 - Reillumination of Expiring Corona-like Pulsed Discharges in Water | RATAJ, Raphael | |
| [916] 3P18 - CALCULATION OF ARC CONDUCTANCE AFFECTED BY FLOW FIELD FOR IMPROVEMENT OF CURRENT INTERRUPTION PERFORMANCE | KOMAI, Yuji | |
| [712] 3P43 - Temperature effect on the surface flashover plasma of the GIS insulator | Dr MA, Guo-ming | |
| [926] 3P30 - Production of crushed sand using underwater pulsed discharge | Mr MATSUMOTO, Naoki | |
| [879] 3P28 - Flexible Control of Pulsed Power Generator for Research Applications with Sensors | AKIYAMA, Masahiro | |
| [798] 3P39 - Investigation of Energy Control in Coaxial Reactor for Ozone Production by Using Nanosecond Pulsed Powers | SANUKI, Yoshifumi | |
| [854] 3P38 - Excess ion energy being essential for ultra-shallow implantation | Prof. SAKUDO, Noriyuki | |
| [856] 3P26 - Study of Conductivity on Hydrogen Peroxide Concentration by High Repetitive Underwater Discharge | SUGAWARA, Daiki | |
| [678] 3P83 - Design of Ultra Wide Band Large Capacitance Load Pulse Source | Mr HUANG, Dongdong | |
| [805] 3P84 - Design and calibration of magnetic pick-up coil (B-dot) probes for measuring strong magnetic fields using commercial electronic components | MELEAN, Raul | |
| [847] 3P77 - A FREQUENCY RESPONSE TEST DEVICE FOR NANO-SECOND COAXIAL RESISTOR DIVIDER | Ms YAN, Jiayin | |

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| [877] 3P40 - Improvement of ozone generation characteristics with shorter rise time of nanosecond pulse voltage | FUKUOKA, Hideaki | |
| [1235] 3P87 - Design and Performance of a 6 GHz Analog Optical Link | LARA, Matthew | |
| [1194] 3P42 - Broadband Power Measurements of High-Voltage, 10-ns Pulses for Plasma Ignition for Combustion | TREMBLE, Christopher | |
| [1282] 3P12 - One-dimensional Numerical Simulation on Nanosecond Pulsed Discharge | Dr LOU, Guofeng | |
| [1094] 3P66 - PLASMA SOURCE FOR KILLING BACTERIA AND BIOFILMS ON SURFACES | Dr BROWNING, Jim | |
| [1127] 3P59 - Inactivation process observation of HeLa cells induced by atmospheric-pressure pulsed plasma jet | Mr UEJI, Tomohiro | |
| [1259] 3P74 - Development of an LIF-dip system to measure electric field magnitude | Dr DUROT, Christopher | |
| [1240] 3P73 - Visible Spectroscopy Techniques for Diagnosing Plasmas in High-Energy-Density Power-Flow Systems | Dr JOHNSTON, Mark D. | |
| [873] 3P78 - LUMPED PARAMETER MODEL AND ANALYSIS OF WIDE BAND RESISTANCE CAPACITANCE PARALLEL VOLTAGE DIVIDER FOR OVERVOLTAGE MONITORING | YAN, Jiayin | |
| [770] 3P76 - Measurement on Electrical Conductivity of Exploding Copper Wire During Current Dwell Time | Mr PARK, Sungbin | |
| [1261] 3P29 - Plasma source for generating ultrasonic and ultraviolet radiation in water | GROELE, Joseph | |
| [1131] 3P37 - Electric breakdown in granite as a function of pressure and temperature conditions | Dr DE FERRON, Antoine | |
| [1074] 3P33 - Calculation and Analysis of Self-resistance of Grounding Material | YINAN, Zhu | |
| [1233] 3P25 - Pulsed power supply design for vacuum arc thrusters application | Mr KUEHN, Marvin | |
| [1281] 3P23 - High density plasma thruster | Mr NIKIC, Dejan | |
| [1264] 3P21 - Development of 3D Electromagnetic Thermal Fluid Simulation for Elucidation of Gas Contamination Process of Circuit Breaker | NISHIZAWA, Shoya | |
| [1252] 3P10 - Gas Temperature Determination of Nonthermal Plasma Through Boltzmann Plot Method | Mr ASHFORD, Marcus | |
| [1047] 3P46 - Lorentz Force Eddy Currents for Nondestructive Testing | DHANABAL, Agni | |
| [794] 3P34 - Growth of photocatalytically active coatings on aluminum by Plasma Electrolytic Oxidation | CRUZ, Nilson C | |
| [828] 3P22 - Performance of a Pulsed Electromagnetic Micropropulsion System with Low Energy Surface Flashover Igniter | PATEL, Adam | |
| [661] 3P52 - MODELING PLASMA SPECIES FORMATION FOR HIGH VOLTAGE ATMOSPHERIC COLD PLASMAS | Ms ISNER, Nancy | |
| [667] 3P02 - Reactive Sputtering of Aluminum Acetylacetonate for Deposition of Alumina Films | RANGEL, Elidiane | |
| [863] 3P31 - Aggregation inhibition of nanoparticle dispersion by nonthermal plasma irradiation | Mr SUENAGA, Katsushi | |
| [885] 3P65 - SURFACE DISCHARGE PLASMA INHIBITED THE BIOSYNTHESIS OF STAPHYLOXANTHIN IN STAPHYLOCOCCUS AUREUS | Ms ZHU, Yupan | |

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| [915] 3P60 - Optimization of GFP introduction into HL-60 cells with a combination of two different rectangular pulses | Prof. KONO, Susumu | |
| [576] 3P79 - Electro-Optical Measurement of Electric Fields for Pulsed Power Systems | OWENS, Israel | |
| [722] 3P44 - Erosion characteristics for different geometric electrodes in an AC rotating arc reactor | Dr KIM, Kwan-Tae | |
| [1078] 3P53 - Magnetic field effects on efficiency of non-viral gene delivery using magnetic nanoparticles | GARNER, Allen | |
| [1128] 3P69 - Consideration of sterilizing method for Stacked Pieces in Packaged Foods Using Pulsed Plasma | ITAKURA, Katsunari | |
| [1195] 3P08 - Evaluation of electric field and charge on bio-substrates induced by nanosecond pulsed helium plasma jet | LI, xi | |
| [1151] 3P85 - Z Line-VISAR: Spatially Resolved Load Current Diagnostic at the Z Pulsed Power Facility* | BLISS, David | |
| [1208] 3P86 - Vacuum Ultraviolet Spectroscopy for Power Flow Studies on the 1 MA, 100 ns MAIZE LTD | Mr SMITH, Trevor Johannes | |
| [1215] 3P09 - TWO TEMPERATURE SIMULATION OF SUBATMOSPHERIC ARC DISCHARGE* | Dr KUNDRAPU, Madhusudhan | |
| [1073] 3P06 - Plasma Properties in a High Pressure ALD Reactor | Mr QU, Chenhui | |
| [784] 3P17 - Investigation on shock wave generated by underwater discharge due to different progress of plasma | SATO, Mitsuhiro | |
| [1123] 3P68 - Investigation of bactericidal characteristics in packaged condition in high frequency high voltage pulse sterilization of food | MINEMURA, Naoya | |
| [1152] 3P07 - Electrical Discharge in Gas-liquid Mixture: Breakdown Voltage and Energy Deposition Distribution in Each Phase | Mr WANG, KUNPENG | |
| [858] 3P54 - Effects of Nanosecond Pulsed Electric Fields Application and Combination of Anticancer Drug on Cancer Cell | Mr ENOMOTO, Soichiro | |
| [1257] 3P88 - Design and Analysis on Coil Parameter of Linear Rogowski Coil for Measurement of High Frequency Pulsed Current | Ms FUJIWARA, Kyoko | |
| [1023] 3P56 - Variation of Physical Parameters in Plasma Wound Healing | LEE, Jimo | |
| [1311] 3P11 - Temporal Gas Temperature Measurement of Single Filament in Atmospheric Pressure Plasma Jet | LI, Jiayin | |
| [859] 3P27 - Sterilization of E. coli in seawater using discharge in water and dielectric barrier discharge | SONE, Hisanori | |
| [887] 3P45 - Statistical examination of spoke evolution in HiPIMS | Dr KLEIN, Peter | |
| [644] 3P50 - CELL GEOMETRY-INVARIANT CALCULATION OF PLASMA MEMBRANE POTENTIAL DUE TO ELECTRIC PULSES USING VARIATIONAL CALCULUS | DARR, Adam | |
| [1315] 3P89 - Investigation of the Structural, Thermal and Electrical Properties of Plasma Polymerized o-Methoxyaniline Thin Films | Mr MASUD, Md. Mehdi | |
| [685] 3P71 - High Power Microwave Pulse Testing of Electronic Devices using Reverberating Chambers | Dr HURTIG, Tomas | |
| [619] 3P81 - Analysis of Cygnus Electrical Signals | Mr TRUONG, Hoai-Tam (Tam) | |
| [1050] 3P82 - HIGH CURRENT SENSING THROUGH FARADAY ROTATION OF POLARIZED LIGHT OF VARYING WAVELENGTHS IN FIBERS III* | Mr COFFEY, Sean | |