

APSPT-8 2013 Oral Presentation List

Presenting No.	Presenting First Name	Presenting Last Name	Session Topic	Session Date	Session Time	Session Venue	Title of Abstract
O1-01	Takuya	Towatari	Session 1: Biomedical Applications	20-Dec-13	11:30-12:30	International Conference Hall	Inactivation of Escherichia coli in liquid phase treated with neutral oxygen radical source
O1-02	Gamal	Elaragi	Session 1: Biomedical Applications	20-Dec-13	11:30-12:30	International Conference Hall	Comparison between gamma irradiation and plasma technology to improve the safety of cold sliced chicken
O2-01	Sarveshwar	Sharma	Session 2: Plasma Diagnostics and Modeling	20-Dec-13	11:30-12:30	Conference Room (4)	Emission of electro-static waves at the sheath boundary of a dual-frequency capacitive discharge investigated by particle-in-cell simulation
O2-02	Shiu-Wu	Chau	Session 2: Plasma Diagnostics and Modeling	20-Dec-13	11:30-12:30	Conference Room (4)	Non-Equilibrium Modeling of Steam Plasma in a Non-Transferred Torch
O3-01	Jaeho	Kim	Session 3: Low Pressure Plasmas	20-Dec-13	11:30-12:30	Conference Room (1)	Control of plasma-dielectric boundary sheath potential for the synthesis of carbon nanomaterials in surface wave plasma CVD
O3-02	Chuei-Ching	Chiou	Session 3: Low Pressure Plasmas	20-Dec-13	11:30-12:30	Conference Room (1)	Development and Validation of a Parallel Object-Oriented 2D/2D-Axisymmetric Fluid Modeling Code with the Ghost-Cell Immersed Boundary Method
O4-01	Rong-Jhe	Lyu	Session 4: Semiconductor	20-Dec-13	14:00-16:15	International Conference Hall	A Novel Method for Fabricating Metal Oxide Thin-Film Transistors
O4-02	Tung-Yu	Liu	Session 4: Semiconductor	20-Dec-13	14:00-16:15	International Conference Hall	Characteristics of Gate-All-Around Poly-Si Nanowire Thin-Film Transistors with NH ₃ Plasma Treatment
O4-03	Wen-Sheng	Chen	Session 4: Semiconductor	20-Dec-13	14:00-16:15	International Conference Hall	Electrical Characteristics and Hot-Carrier Effect of Stacked HK/MG nMOSFETs under DPN Treatment plus Annealing Temperatures
O4-04	William Cheng-Yu	Ma	Session 4: Semiconductor	20-Dec-13	14:00-16:15	International Conference Hall	Threshold Voltage Reduction and Mobility Improvement of LTPS-TFTs by N ₂ Plasma Nitridation
O4-05	Jin Seok	Kim	Session 4: Semiconductor	20-Dec-13	14:00-16:15	International Conference Hall	The Effect of Phase Shift of Dual Frequency Capacitively Coupled Plasmas on Plasma Uniformity
O5-01	Chun-Yi	Chen	Session 5: Atmospheric-pressure and Multiphase Plasmas	20-Dec-13	14:00-16:15	Conference Room (4)	Novel Symmetric Dielectric Barrier Discharge Atmospheric Pressure Plasma Ion Source for Mass Spectrometry Applications
O5-02	Chih Tung	Liu	Session 5: Atmospheric-pressure and Multiphase Plasmas	20-Dec-13	14:00-16:15	Conference Room (4)	Effect of Ambient Air Entrainment on O/OH Radical Generation of a Helium-Based Atmospheric Pressure Plasma Jet
O5-03	Tetsuya	Yamamoto	Session 5: Atmospheric-pressure and Multiphase Plasmas	20-Dec-13	14:00-16:15	Conference Room (4)	Sustainable Moisture Resistant Carrier Transport of Highly Transparent Conductive Ga-Doped ZnO Films Controlled by dc arc Plasma Technique
O7-01	Pei-Lin	Shao	Session 7: Biomedical Applications	21-Dec-13	11:00-12:00	International Conference Hall	Efficacy study of non-thermal micro-plasma for promoting CO ₂ laser irradiation wound healing
O7-02	Chih-Hao	Lin	Session 7: Biomedical Applications	21-Dec-13	11:00-12:00	International Conference Hall	Creation of Biofunctionalized Allylamine Gradient for the Biomaterial Applications
O8-01	Bi-Ren	Gu	Session 8: Plasma Diagnostics and Modeling	21-Dec-13	11:00-12:00	Conference Room (4)	Development of the Temporal Multiscale Scheme for Fluid Modeling of Low-Temperature Plasmas: One-Dimensional Demonstration
O8-02	Virat	Wattanamekhinkul	Session 8: Plasma Diagnostics and Modeling	21-Dec-13	11:00-12:00	Conference Room (4)	Charging efficiency of the single-wire corona unipolar charger with radial sheath flow
O10-01	Tomoko	Nakajima	Session 10: Biomedical Applications	21-Dec-13	15:20-17:50	International Conference Hall	Ferrous iron enhances bleaching of organic dye solution by cold plasma jet
O10-02	Yu-Chun	Lin	Session 10: Biomedical Applications	21-Dec-13	15:20-17:50	International Conference Hall	Creation of Fluorinated Wettability Gradient on Polypropylene and Investigation the Mammalian Cell Responses
O10-03	Takayuki	Ohta	Session 10: Biomedical Applications	21-Dec-13	15:20-17:50	International Conference Hall	Gas phase diagnostics of atmospheric pressure oxygen radical source on inactivation of P. digitatum spores
O10-04	Ta-Lun	Sung	Session 10: Biomedical Applications	21-Dec-13	15:20-17:50	International Conference Hall	Direct measurement of the variation of metal surface temperature due to the ozone dissociation using a small thermocouple
O10-05	Mitchel Kingsley Chido	Pindura	Session 10: Biomedical Applications	21-Dec-13	15:20-17:50	International Conference Hall	Plasma Modification of Electrospun PVA-Chitosan Fibers for Antibacterial Activity
O11-01	Zhi Hua	Lin	Session 11: Atmospheric-pressure and Multiphase Plasmas	21-Dec-13	15:20-17:50	Conference Room (4)	Experimental Characterization of an Argon-based Atmospheric-Pressure Plasma Jet
O11-02	Weihua	Jiang	Session 11: Atmospheric-pressure and Multiphase Plasmas	21-Dec-13	15:20-17:50	Conference Room (4)	Advanced Pulsed Power Generators for Industrial Applications
O11-03	Cheng-Che	Hsu	Session 11: Atmospheric-pressure and Multiphase Plasmas	21-Dec-13	15:20-17:50	Conference Room (4)	Strategies to Tailor Discharge Behavior of Solution Plasma via Different Power Types
O11-04	Hiroto	Matsuura	Session 11: Atmospheric-pressure and Multiphase Plasmas	21-Dec-13	15:20-17:50	Conference Room (4)	Effect of working gas on the atmospheric pressure discharge plasma and its decomposition action for a solution target
O12-01	Sheng-Fu	Yang	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Development of Radio-Frequency Plasma Synthesis System to Extract Al ₂ O ₃ from Aluminum Dross
O12-02	Srinivasu	kunuku	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Plasma for Growth, Processing of Diamond films and Diamond Nanostructures for Microplasma Applications
O12-03	Yong-Cin	Chen	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Preparation of Nano-cubic Cu ₂ O/Platinum Core-Shelled Nanoparticles Surface Treated with Plasmas for its Electrochemical Applications
O12-04	Takashi	Ikehata	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Plasma Synthesis of Thermoelectric Thin Films
O12-05	Wahyu	Diyatmika	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Introduction of Various Sputtered films as Underlayers for Sn Whisker Mitigation
O12-06	Alemu	Tesfaye	Session 12: Nano-materials Processing	21-Dec-13	15:20-17:50	Conference Room (1)	Thin Film Metallic Glass Indentation Recovery: Effects of Annealing Conditions

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O13-01	Noriyuki	Sakudo	Session 13: Low Pressure Plasmas	22-Dec-13	11:00-12:00	International Conference Hall	Plasma Crystallization of Metal Compound Film Deposited on Plastics
O13-02	Yoshio	Yoshioka	Session 13: Low Pressure Plasmas	22-Dec-13	11:00-12:00	International Conference Hall	Transient Phenomena Observed before an Atmospheric Pressure Townsend Discharge is established
O14-01	Pan	Kuan-Lun	Session 14: Atmospheric-pressure and Multiphase Plasmas	22-Dec-13	11:00-12:00	Conference Room (4)	CO ₂ reforming of CH ₄ to form syngas by combination of non-thermal plasma and catalyst
O14-02	Yasushi	Nishida	Session 14: Atmospheric-pressure and Multiphase Plasmas	22-Dec-13	11:00-12:00	Conference Room (4)	Air Cleaning System triggered by High Electric Field Plasma
O15-01	Yasutaro	Nishimura	Session 15: Plasma Diagnostics and Modeling	22-Dec-13	11:00-12:00	Conference Room (1)	Numerical simulation of Langmuir solitons in nonuniform plasmas
O15-02	M. C.	Lin	Session 15: Plasma Diagnostics and Modeling	22-Dec-13	11:00-12:00	Conference Room (1)	3D CFDTD PIC Hybrid Simulations on Plasma Processing of Materials
O16-01	Edna Mae	Cruz	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Synthesis and Characterization of Titania-coated Cheesecloth
O16-02	Sze-Chin	Chen	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Surface Anti-fouling Layer Prepared by Plasma Ion Implantation Grafting of Poly(2-methyl-2-oxazoline)
O16-03	Masuhiko	Kogoma	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Silica Coating of Zeolite Powder by Atmospheric Pressure Plasma to Prevent the Desorption of Adsorbed Cs ⁺ Ion
O16-04	Ryuta	Ichiki	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Surface Hardening and Nitride Formation of Metals using Atmospheric-Pressure Thermal Plasma Jet
O16-05	Mingzhi	Wu	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Effect of multiple frequency H ₂ /Ar plasma treatment on the optical, electrical and structural properties of AZO films
O16-06	Tianyuan	Huang	Session 16: Plasma Surface Modifications	22-Dec-13	15:20-17:20	International Conference Hall	Influence of magnetic field on Helicon plasma discharge for processing wall material
O17-01	Takehiko	Sato	Session 17: Atmospheric-pressure and Multiphase Plasma	22-Dec-13	15:20-17:20	Conference Room (4)	Driving mechanism of plasma-induced gas flow between needle electrode and water surface
O17-02	Seiji	Kanazawa	Session 17: Atmospheric-pressure and Multiphase Plasma	22-Dec-13	15:20-17:20	Conference Room (4)	Formation of OH and H ₂ O ₂ in Water through Atmospheric Pressure Air-Liquid Interfacial Discharge
O17-03	Koichi	Takaki	Session 17: Atmospheric-pressure and Multiphase Plasma	22-Dec-13	15:20-17:20	Conference Room (4)	Decomposition of Ethylene Gas Using Dielectric Barrier Discharge for Long-term Preservation of Plants
O17-04	Alexandr	Ustimenko	Session 17: Atmospheric-pressure and Multiphase Plasma	22-Dec-13	15:20-17:20	Conference Room (4)	Solid Fuels Gasification in Entrained Flow Plasma Gasifier
O18-01	Raghu Nath	Putikam	Session 18: Plasma Diagnostics and Modeling	22-Dec-13	15:20-17:20	Conference Room (1)	Ab initio chemical kinetics for SiH ₂ + Si ₂ H ₆ and SiH ₃ + Si ₂ H ₅ reactions and the related unimolecular decomposition of Si ₃ H ₈ under a-Si:H-CVD conditions
O18-02	Yun-Min	Lee	Session 18: Plasma Diagnostics and Modeling	22-Dec-13	15:20-17:20	Conference Room (1)	RRKM Calculation for the Photo Ionization/Electron-Impact Ionization of Silane