

## APSPT-8 2013 Poster Presentation List

Presenting No.	Presenting First Name	Presenting Last Name	Session Category	Session Date	Poster Set-Up Date	Poster Take-Down Date	Title of Abstract
P1-01	Hiroto	Kato	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Molecular Structure Analysis of Microorganisms by Raman Spectroscopy
P1-02	Akane	Kondo	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	The effect of inhalation of Atmospheric Pressure Discharge Plasmas and Nitric Oxide (NO)
P1-03	Chin-Cheng	Wang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Numerical Simulation of Ozone Formation for Dielectric Barrier Discharge Devices
P1-04	Tuoh	Wu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Feasibility Study of Atmospheric-Pressure Plasma Jets on the Sterilization of Human Cancellous Bone
P1-05	Chi-Chang	Wu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Improving Sensitivity of a Silicon Nanowire Sensor Using Surface Plasma Modifications
P1-06	Pei-Lin	Shao	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Fibrinogen of platelet-poor plasma activated by argon micro-plasma of various parameters
P1-07	Che-Wei	Hsu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Antibacterial properties of plasma induced Triclosan-modified polyethylene surface
P1-08	Wei-Ting	Hsu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Fabrication and Characterizations of Thin Film Metallic Glasses: Antibacterial Property and Durability Study for Medical Application
P1-09	Hao Heng	Liu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Guiding the axons of PC-12 Neuron Cells in Microstructures
P1-10	Yu-Yun	Chang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effects of environmental stimulation on the growth and antioxidant activities of radish sprouts
P1-11	Yun-Rong	Li	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effect of environmental stimulation treatment on the growth of broccoli sprouts and its functional compounds
P1-12	Yan-Hsiang	Huang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Biofunctionalization via Plasma Polymerization using Amine Containing Precursors
P1-13	Liang-Yi	Wang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effects of Plasma Surface Modifications on Microfibrillated Cellulose for Metal Reduction
P1-14	Chih-Yang	Wang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Preparation of Nanocomposite Membranes with Fouling Resistance Surface Properties by Plasma Surface Modifications
P1-15	Yi-Ren	Su	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Improvement of Surface Electrochemical Properties via Plasma Polymerization of Aniline
P1-16	Han-Lun	Chang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effect of Low Energy Non-Thermal Atmospheric-Pressure Helium DBD Plasma-Jet on Cell Viability and Migration Ability of Cultured Fibroblasts
P1-17	Chun-Hao	Fu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	The Sterilization of Escherichia Coli (E. Coli) by Atmospheric Pressure Dielectric Barrier Discharge (DBD) Plane Plasma
P1-18	Lilik	Suprianti	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Rare earth scandate film for resistance random access memory application prepared by magnetron sputtering method
P1-19	Wen-Zhi	Chang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Resistive-switching behavior in a thin amorphous rare-earth scandate: a study of dominating mechanism
P1-20	Quang-Ho	Luc	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	The electrical characteristics of Al <sub>2</sub> O <sub>3</sub> /AlN/n, p-In <sub>0.53</sub> Ga <sub>0.47</sub> As metal oxide semiconductor capacitors with plasma enhanced atomic layer deposition aluminum nitride
P1-21	Hsiu-Chi	Lin	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Characteristics of SiH <sub>4</sub> -containing plasma generated by ICP-CVD mixed with H <sub>2</sub> , B <sub>2</sub> H <sub>6</sub> and PH <sub>3</sub> gases
P1-22	Chien-Hua	Chen	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Preparation and Characterization of Sc <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> Solid Electrolyte for IT-SOFC using Atmospheric Plasma Spray
P1-23	Chun Wei	Huang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Numerical simulation beam instabilities induced by secondary electron emissions in processing plasmas
P1-24	Jie-Min	Yang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Gate Leakage for 28nm HfZrOx Gate Dielectric of PMOSFETs after Decoupled Plasma Nitridation Process with Annealing Temperatures
P1-25	Kungen	Teii	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Electrical and Thermal Transport Properties of Nanocrystal-Embedded Films Deposited by Plasma-Enhanced Chemical Vapor Deposition
P1-26	William Cheng-Yu	Ma	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Surface Roughness Scattering Improvement of LTPS-TFTs by O <sub>2</sub> Plasma Oxidation
P1-27	Akimitsu	Hatta	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Hydrophilic DLC Surface Induced by Nanostructures Formed by RF O <sub>2</sub> Plasma Etching with Metal Micro-Masks
P1-28	Saravanan	Adhimoorthy	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Growth of Ultrananocrystalline Diamond films by Bias Enhanced Growth in the Microwave Plasma Enhanced Chemical Vapor Deposition System

### APSPT-8 2013 Poster Presentation List

Presenting No.	Presenting First Name	Presenting Last Name	Session Category	Session Date	Poster Set-Up Date	Poster Take-Down Date	Title of Abstract
P1-29	Yi-Fan	Huang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Crystal structure and electronics for controlling the morphology of plasma etched semiconductor nanostructures
P1-30	Chun-Ming	Hsu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Deposition the transparent and conductive ZnO film by an atmospheric pressure plasma jet
P1-31	Chun-Liang	Chang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Development of Inductively Coupled Plasma Synthesis System for Synthesizing Perovskite Nano Powders
P1-32	Shi-Chao	Zeng	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Preparation of Sub-micron Al(OH) <sub>3</sub> Powder by Plasma Oxidation in Water
P1-33	Chia-Lin	Li	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	A study on the fracture toughness of thin film metallic glasses by using micro-cantilevers
P1-34	Yu-Hsun	Tseng	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Early Effect for 28nm HfO <sub>x</sub> /ZrO <sub>y</sub> /HfO <sub>x</sub> Gate Dielectric of NMOSFETs after DPN Process with Different Nitrogen Concentration
P1-35	Tsung Chieh	Cheng	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Field Emission Properties of Thiolated MWCNTs by MPCVD
P1-36	Tao-Hsing	Chen	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effect of annealing temperature on the optical and electrical properties of GZO/Ti/ZnO multilayers thin film by Rf magnetron sputtering
P1-37	Jyun-Hao	Lin	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	The GaN-base LED Grown on Nano Pattern Sapphire Substrate Prepared by Inductively Coupled Plasma Etching
P1-38	Ching Jung	Wu	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Effect of Outer Electrodes Arrangement on O/OH Radical Generation in a Helium-Based Atmospheric-Pressure Plasma Jet
P1-39	Chun-Ping	Hsiao	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Hydrogen and Carbon Monoxide Production Using Ethanol Steam Reforming via Gliding Arc Plasma Assisted Catalyst
P1-40	Chun	Huang	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Surface Characterization of Cyclonic Methane/Argon Mixture Plasma-Treated Poly(vinylidene fluoride) Membrane and Its Flux Enhancement
P1-41	Masahiro	Ohashi	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Collection of Diesel Particulate Matter on Hole Type Electrostatic Precipitator
P1-42	Takehito	Torii	Poster Session I	21-Dec-13	21-Dec-13	21-Dec-13	Incineration of the diesel particulate matter using the dielectric barrier discharge on the electrostatic precipitator
P2-01	Haruka	Murata	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Analysis of Ionic Wind on Hole Type Electrostatic Precipitator
P2-02	Ruey-Chang	Hsiao	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	A simple ozone detector using the effect of ozone dissociation on the metal surface
P2-03	Takuya	Nagatomo	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Properties of Soil Treated with Ozone Generated by Surface Discharge
P2-04	Fumiaki	Mitsugi	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Gas Flow Dependence on Dynamic Behavior of Serpentine Plasma in Gliding Arc Discharge System
P2-05	Toshiyuki	Nakamiya	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Real-time measurement of special distribution of coplanar DBD sound
P2-06	Yasushi	Nishida	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Advanced CO <sub>x</sub> Free Hydrogen Production with Use of Plasma from Hydrocarbon
P2-07	Chih-Chiang	Weng	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Diamond-like carbon coating on PET via atmospheric pressure arcing jet
P2-08	Shiaw-Huei	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Carbon Dioxide Dry Reforming of Methane by DC Thermal Plasma Torch at Atmospheric Pressure
P2-09	Shiaw-Huei	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Developments and Improvements of a Steam Plasma Torch System
P2-10	Shotaro	Komatsu	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Hydrophilic treatment of polyimide by atmospheric pressure H <sub>2</sub> O-Ar mixture gas microwave plasma
P2-11	Shigeru	Ono	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Numerical studies of ozone dissociation effect on the surface temperature decrease of the inner electrode of a coaxial cylindrical barrier discharge ozonizer
P2-12	Chen-Chung	Du	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Structural and electrical properties of phosphorus-doped microcrystalline silicon films prepared by PECVD method
P2-13	Syuichi	Suzuki	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Study of hydrophilic treatment of polyimide by microwave flowing plasma
P2-14	Jie	Huang	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	TiN-TiCN-TiN multilayer prepared by plasma enhanced chemical vapor deposition

**APSPT-8 2013 Poster Presentation List**

Presenting No.	Presenting First Name	Presenting Last Name	Session Category	Session Date	Poster Set-Up Date	Poster Take-Down Date	Title of Abstract
P2-15	Jaeho	Kim	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Inner wall coating and termination of CVD process operations of a microwave surface wave plasma device
P2-16	Fu-Chien	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Study of Gate Leakage Characteristics for 28nm HfZrOx PMOSFETs after DPN Process Treatment with Different Nitrogen Concentration
P2-17	Po-Kai	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Performance of Deep-nano Gate-last HK/MG nMOSFETs using DPN or PDA Process with Annealing Temperatures under Temperature Stress
P2-18	Tsung-Hsin	Lee	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Monitoring the Properties of Mo Thin Film in the Sputtering Deposition Process by Using Optical Emission Spectroscopy
P2-19	Satoshi	Tsuno	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Numerical study on acceleration and deceleration mechanism of weakly ionized plasma flowing supersonically through open field line
P2-20	Che-Wei	Hsu	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Spectroscopic evaluation of the electron density of a miniaturized, non-thermal atmospheric pressure plasma jet in argon
P2-21	Chia-Chieh	Ko	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	The Micro-Scale Analysis of the Process of Ceramic Membrane Preparation by Atmospheric Plasma Spray Coating
P2-22	Chen-Chung	Du	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Diagnostics and Modeling of Microcrystalline Silicon Thin Film Deposition in VHF PECVD
P2-23	Sung	Ta-Lun	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	A self-compensated Langmuir probe for RF (13.56 MHz) plasma system
P2-24	Peng-Kai	Kao	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	One Step Fabrication of Paper-based Microfluidic Devices using Fluorocarbon Plasma Polymerization
P2-25	Tzu-Hsuan	Lin	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Plasma polymerization of the inner wall of a long, narrow tube under atmospheric pressure
P2-26	Chun	Huang	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Tailoring Surface Properties of Non-Woven Polypropylene by Cyclonic Atmospheric Pressure Plasma
P2-27	Shi-Chao	Zeng	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	The Hardness of Fe-Al-Mn Alloy after Plasma Nitriding under Different Temperatures and Pressures
P2-28	Ruey-Chang	Hsiao	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	The modification of plastic surface by plasma treatment for painting using a low pressure RF discharge plasma
P2-29	Minh-Hien	Ngo	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Plasma synthesized silver nanoparticles embedded in the electronspun chitosan nanofibers
P2-30	Wan-Yu	Liu	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Wettability and Optical Properties of Plasma-polymerized Thin Layers by Vinyltrimethylsilane/Oxygen or Hexamethyldisilazane/Oxygen
P2-31	Bo-Kai	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Developed the surface of super-hydrophobic or super-hydrophilic by HMDSZ and oxygen cold plasma treatment
P2-32	Shan-Hsing	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Plasma Desmear for High Frequency PCB Process
P2-33	Rong-Fan	Lo	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	The study of characteristics of nanocrystalline diamond and polycrystalline diamond on Ti substrate by two-step growth in MPCVD
P2-34	Rong-Fan	Lo	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	MWCVD diamond coating on Ti substrate by electrophoretic seeding pretreatment
P2-35	Yen-Ling	Liu	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Plasma Enhanced Anti-Smudge Adhesion
P2-36	Tzu Ching	Chen	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	DECOMPOSITION OF HYDROCARBON BY USING PLASMA FOR PRODUCING HYDROGEN WITHOUT CO2
P2-37	Alexandr	Ustimenko	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Plasma Torch Application at Coal Fired Thermal Power Plants
P2-38	Botsz	Huang	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Alpha particle transport in the presence of drift-wave turbulence
P2-39	Gamal	Elaragi	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Cytogenetic and Immunological Effects Resulting From Cold Pulsed Atmospheric Plasma Jet Exposure on Human Blood Culture
P2-40	Gamal	Elaragi	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Effect of Electrothermal Plasma on Polymer Materials (Teflon and Polyethyleneterephthalate (PET))
P2-41	Jin Seok	Kim	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Low Pressure Capacitively Coupled Plasmas Discharge Simulation Combining a Parallelized Particle-In-Cell Simulation and a Direct Simulation of Monte Carlo
P2-42	M. C.	Lin	Poster Session II	22-Dec-13	22-Dec-13	22-Dec-13	Study on Microwave Plasma Enhanced Chemical Vapor Deposition Using Particle-In-Cell Simulations