Short Presentation (Poster) 1 March 7 (MON) 19:00～20:00

07P-01 **3-Dimensional Plasma Actuator for Flowing Gas Containing Reactive Species**
Mao Xu, Motoaki Yamauchi and Akitoshi Okino
Tokyo Institite of Technology

07P-02 **Study on CO Gas Sensing by Sputtering Different Power ZnO Films**
Yi-Zhe Zhang and Yen-Sheng Lin
I-Shou University

07P-03 **Sputtering Process of Porous Gallium-Doped Zinc Oxide Thin Film to Apply on CO Gas Sensing**
Yu-Meng Taso and Yen-Sheng Lin
[1]I-Shou University

07P-04 **Study on Improving the Optical and Electrical Properties of ZnO Thin Films by Intermittent Sputtering Process**
Shih-Cheng Tseng and Yen-Sheng Lin
I-Shou University

07P-05 **The Characterization of VO2 Deposited by High-Power Impluse Magnetron Sputtering for MIS Applications**
[1]Pin-Syun Jiang, [2]Chien-Chieh Lee and [1]Pi-Chun Juan
[1]Ming Chi University of Technology
[2]National Central University

07P-07 **The Influence of Pulse-Modulation on OH Radical Generation from Non-Thermal Atmospheric-Pressure Plasma**
Yi-Wei Wang and Yun-Chien Cheng
National Chiao Tung University

07P-08 **Study of the Influence of Deformation Structures on the Sensitivity of AZO Thin Film Sensor.**
Yung-Cheng Wei and Yen-Sheng Lin
I-Shou University

07P-09 **Heating of Siliver Nanoparticles in the Gas Phase by Ar/H_2 Surface Wave Pasma**
[1]Kazuya Hikita, [1]Kensuke Sasai, [1,2]Haruka Suzuki and [1,2,3]Hirotaka Toyoda
[1]Nagoya University
[2]Center for low-temperature Plasma Sciences,Nagoya University
[3]National Institute of Fusion Science

07P-10 **A Study of Potential Risk and Improvement of APS YF3 Coating on ICP Source**
Youngjae Ma, Jongwoo Park, Hyojeong Seo, BeomSeok Kim and Sung Jin Yoon
PSK inc.

07P-11 **Multi-Signal Monitoring for Discharge Optimization in Linear Plasma Device NAGDIS-II**
Takehiro Sakakibara, Hiroki Natsume, Yohei Imaeda, Hirohiko Tanaka, Shin Kajita and Noriyasu Ohno
Nagoya University

07P-13 **Suppression of Arc Ignition on Nano-Tendril Bundles by Annealing Treatment**

[1]Rongshi Zhang, [1]Shin Kajita, [2]Dogyun Hwangbo, [3]Dmitry Sinelnikov, [1]Hirohiko Tanaka and [1]Noriyasu Ohno

[1]Nagoya University
[2]University of Tsukuba
[3]Nation Research Nuclear University MEPhI

07P-14 **RF Voltage Division of in RF-Biased High-Density Plasma with Floating Liner**

[1]Yukinori Chiba, [1]Manabu Kyuzo, [1,2]Haruka Suzuki and [1,2,3]Hirotaka Toyoda

[1]Department of Electronics, Nagoya University
[2]Center for Low-temperature Plasma Sciences, Nagoya University
[3]National Institute for Fusion Science

07P-15 **Study on Improving Touch Sensitivity by Inserting CuO Nanostructure**

Jia-Jun Liu and Yen-Sheng Lin

I-Shou University

07P-17 **Trial of Elemental Gradient Functional Thin Films Preparation by Sputtering with Mixed Powder Targets I**

Hiroharu Kawasaki, Tamiko Ohshima, Yoshihito Yagyu, Takeshi Ihara and Takahiko Satake

National Institute of Technology, Sasebo College

07P-20 **Study of the Deformation Influence on Ga-Doped ZnO Thin Film Touch Sensor**

Ping-Tai Jiang, Yan-Jun Wang and Yen-Sheng Lin

I-Shou University

07P-22 **Spectral Reflectance Analysis of the Formation State of a Titanium Thin Film Deposited on a Plastic Substrate by DC Magnetron Plasma Sputtering**

[1]Akira Watazu, [2]Yoshihiro Nishimura, [1]Kay Teraoka, [2]Masanobu Tobe, [2]Ryo Kobori and [1]Tsutomu Sonoda

[1]National Institute of Advanced Industrial Science and Technology (AIST)
[2]Lasertec Corporation

07P-23 **Hydrogen Entry State of Coating Material Using Sputtering Method**

Yuya Muramoto, Hiroshi Nishiguchi, Ohshima Tamiko and Kawasaki Hiroharu

National Institute of Technology, Sasebo College

07P-26 **Development of Planar Plasma Source for Metal Organic Plasma Decomposition**

[1]Hiroshi Akamatsu and [2]Kazunori Ichikawa

[1]Kobe City College of Technology
[2]National Institute of Technology, Matsue College

07P-27 **Effect of Ion Shielding on Sulfur Defect Formation in Monolayer MoS_2 Treated by Microwave Hydrogen Plasma**

Akihisa Ogino and Shuya Asada

Shizuoka University

07P-28 **Deposition of TiO_2 Film on Resin Substrate by Atmospheric Solution Precursor Plasma Spraying Using Air Working Gas**

[1]Xi Wang, [1]Boyu Zhang, [1]Tianshuo Wang, [1]Fengzhi Wu, [1]Yasutaka Ando and [2,3]Akira Kobayashi

[1]Ashikaga University
[2]Chulalongkorn University
[3]The University of Tokyo

07P-29 **Al-Doped Zinc Oxide Thin Films Deposition with Mixed Powder Targets by Sputtering**

[1,2]Tamiko Ohshima, [1]Yusuke Hibino, [1]Takeshi Ihara, [1]Yoshihito Yagyu, [1,3]Takahiko Satake, [1]Hiroharu Kawasaki, [2]Naho Itagaki, [2]Kazunori Koga and [2]Masaharu Shiratani
[1]National Institute of Technology, Sasebo College
[2]Kyushu University
[3]Sojo University

07P-30 **Emission Spectra and Raman Spectral Studies of TiCN Thin Films Deposited Using a Magnetized Sheet Plasma Source.**

[1,2]Glenson Panghulan, [2]Christlyn Faith Arias, [2]Ryan Russel Gabatino, [2]Catherine Joy Dela Cruz, [2]Kenneth Duque and [2]Magdaleno Jr Vasquez
[1]University of the Philippines
[2]University of the Philippines-Diliman

07P-31 **Structural Analysis of Topmost Surface of a-C:H film by Using Surface-Enhanced Raman Spectroscopy**

[1]Ryosei Iwai, [1]Hiroyuki Kousaka, [2]Takayuki Tokoroyama, [2,3]Yuya Nakasima, [1]Tatsuya Furuki and [2]Noritsugu Umehara
[1]Gifu University
[2]Nagoya University
[3]Fuji Electric Co., LTD.

07P-32 **Preparation of Electron Transport Layer for Perovskite Solar Cells by Microwave Plasma Treatment on Sputtered Tin Thin Films**

Po-Jui Hsu and Meng-Jiy Wang
National Taiwan University of Science and Technology

07P-33 **Deposition of PFCs Films on Die with Microstructures Using CF_4 Gas**

Gang Han, Masaya Watanabe, Seiya Fujita and Minoru Sasaki
Toyota Technological Institute

07P-34 **Relationship between Discharge Characteristics and Film Density in DLC Film Deposition Using HF-HiPIMS Method**

[1]Hiroyuki Fukue, [1]Tatsuyuki Nakatani, [2]Tadayuki Okano, [2]Masahide Kuroiwa, [3]Shinsuke Kunitsugu, [4]Hiroki Oota and [1,4]Ken Yonezawa
[1]Okayama University of Science
[2]Tokyo Electronics Co., Ltd.
[3]Industrial Technology Center of Okayama Prefecture
[4]Kenix Corporation

Short Presentation (Poster) 2 March 8 (TUE) 13:30～14:30

08P-01 **Generation and Characterization of Spiral Hydrogen-Nitrogen Mixed Plasmas for Ammonia Synthesis**

Kota Hiraiwa, Noriyasu Ohno, Keigo Tojo, Ryosuke Nishio, Shin Kajita and Hirohiko Tanaka
Nagoya University

08P-02 **Development and Optimization of Cascaded Arc Plasma Source in TPD-II**

[1]Yuki Hayashi, [1,2]Yukinori Hamaji, [1]Suguru Masuzaki, [3]Naomichi Ezumi, [4]Noriyasu Ohno, [5]Shinichi Namba and [4]Makoto Takagi
[1]National Institute for Fusion Science
[2]SOKENDAI
[3]University of Tsukuba
[4]Nagoya University
[5]Hiroshima University

08P-03 **Multi-Elements Mixture Thin Film Preparation Process by Sputtering Deposition Using Mixture Powder Target I**

[1,2]Takahiko Satake, [1]Tamiko Ohshima, [1]Yoshihito Yagyu, [1]Takeshi Ihara, [1]Hiroharu Kawasaki and [2]Sin-ichi Aoqui
[1]National Institute of Technology, Sasebo College
[2]Sojo University

08P-04 **Development of Ultra-Highly Oriented Aluminum Nitride Thin Films by Pressure Gradient Sputtering Method**

[1]Ken Yonezawa, [1]Hiroki Ohta, [1]Susumu Yonezawa, [2]Tatsuyuki Nakatani, [3]Masaharu Shiratani, [3]Kazunori Koga and [4]Jun-Seok Oh
[1]Kenix Corporation
[2]Okayama University of Science
[3]Kyushu University
[4]Osaka City University

08P-05 **Effect of Substrate Temperature on Morphology of Carbon Nanowalls Grown by a Radical-Injection Plasma-Enhanced Chemical Vapor Deposition Using C_2F_6 /H_2 Mixture Gas**

[1]Takumi Hashimoto, [2]Hiroki Kondo, [2]Kenji Ishikawa, [2]Takayoshi Tsutsumi, [2]Makoto Sekine, [3]Mineo Hiramatsu and [2]Masaru Hori
[1]Nagoya University
[2]Center for Low-temperature Plasma Sciences
[3]Meijo University

08P-06 **Directional Material Probe for Analyzing of Directionalities in Deposition Layers**

Suguru Masuzaki
National Institute for Fusion Science

08P-07 **Study on Using Mixed Powder Target for Transparent Conductive Thin Film Preparation by Sputtering Method**

[1,2]Takahiko Satake, [1]Tamiko Ohshima, [1]Yoshihito Yagyu, [1]Takeshi Ihara, [1]Hiroharu Kawasaki and [2]Sin-ichi Aoqui
[1]National Institute of Technology, Sasebo College
[2]Sojo University

08P-08 **Plasma Enhanced Chemical Vapor Deposition of Carbon Nanowalls with Negative DC Bias Application**

Koki Takeuchi, Keigo Takeda and Mineo Hiramatsu
Meijo University

08P-09 **Initial Growth of Graphene Using Microwave-Excited Non-Equilibrium Atmospheric Pressure Remote Plasma Enhanced Chemical Vapor Deposition**

Yusuke Sakai, Kajino Akihiro, Keigo Takeda and Mineo Hiramatsu
Meijo University

08P-10 **Formation of Diamond-Like Carbon Film on Organic Substrate by High Power Impulse Magnetron Sputtering**

[1]Takayuki Ohta, [2]Akinori Oda and [3]Hiroyuki Kousaka
[1]Meijo University
[2]Chiba Institute of Technology
[3]Gifu University

08P-11 **Effect of Average Power Density on Deposition of Diamond-Like Carbon Using High Power Impulse Magnetron Sputtering**

[1]Sota Okumura, [1]Jo Matsushima, [2]Akinori Oda, [3]Hiroyuki Kousaka and [1]Takayuki Ohta
[1]Meijo University
[2]Chiba Institute of Technology
[3]Gifu University

08P-12 **Atmospheric Pressure Plasma Diagnostics Using an Ion Mobility Spectrometer**

Keith Nealson Penado and Motoi Wada
Doshisha University

08P-13 **Laser-Induced Fluorescence Spectrum Measurement Using Optical Vortex Beams**

[1]Shinji Yoshimura, [2]Kenichiro Terasaka and [3]Mitsutoshi Aramaki
[1]National Institute for Fusion Science
[2]Kyushu University
[3]Nihon University

08P-14 **Radical Measurement of Ar/C_4F_8 Dual Frequency Capacitively-Coupled Plasma**

[1]Yuto Seki, [1]Haruhito Kato, [1]Schuichi Kuboi, [1,2]Haruka Suzuki and [1,2,3]Hirotaka Toyoda
[1]Nagoya University
[2]Center for Low-temperature Plasma Sciences
[3]National Institute for Fusion Science

08P-16 **Finite Temperature Effect on Kinetic Monte-Carlo Simulation Applied to Tungsten Surface Diffusion**

[1,2]Atsushi Ito and [1,2]Arimichi Takayama
[1]National Institute for Fusion Science
[2]The Graduate University for Advanced Studies (SOKENDAI)

08P-17 **Molecular Dynamics Simulation of Vacancy Cluster Formation and Hydrogen Isotope Trapping in Neutron Irradiated Tungsten**

[1]Miyuki Yajima, [2]Seiki Saito, [3]Kazuki Takasan, [1,3]Hiroaki Nakamura and [1,4]Daiji Kato
[1]National Institute for Fusion Science
[2]Yamagata University
[3]Nagoya University
[4]Kyushu University

08P-18 **Migration Energy Related to Tungsten Surface Diffusion Evaluated by Ab Initio Calculation**

[1,2]Arimichi Takayama and [1,2]Atsushi Ito

[1]National Institute for Fusion Science
[2]The Graduate University for Advanced Studies, SOKENDAI

08P-19 **OES Measurement of Diaphragm Discharge: Investigation into Electron and Gas Temperature**

Taichi Watanabe, Nozomi Takeuchi and Shungo Zen

Tokyo Institite of Technology

08P-20 **Visualization of Reactive Oxygen Species Distribution around Argon Plasma Jet with Chemical Probe**

[1]Trung Nguyen Tran, [1]Min Hu, [1]Ryoko Asada, [2]Jin Sakamoto And [1]Hiroto Matsuura

[1]Osaka Prefecture University
[2]Kansai University

08P-21 **Bubbling Phenomenon of Sn-Bi-Li-Er Alloy under H2 Plasma Exposure**

[1]Kota Tamura, [1,2]Haruka Suzuki, [3]Junichi Miyazawa, [3]Suguru Masuzaki, [3]Masayuki Tokitani and [1,2,3]Hirotaka Toyoda

[1]Nagoya University
[2]Center for Low-temperature Plasma Sciences, Nagoya University
[3]National Institute for Fusion Science

08P-22 **Development of a New Bonding Process for a Plastic-to-Metal Joining by Using a High-Frequency Plasma Jet**

[1]Giichiro Uchida, [2]Kosuke Takenaka and [2]Yuichi Setsuhara

[1]Meijo University
[2]Osaka University

08P-23 **Significant Wear-Resistance Improvement of Polyimide Composite with Small Amount of Plasma-Treated Carbon Nanotubes**

Daisuke Ogawa and Keiji Nakamura

Chubu University

08P-24 **Tuning Plasma-Knobs to Control Seamless Radical-Induced Biological Reaction Processes**

Masaru Hori, Hiromasa Tanaka and Kenji Ishikawa

Nagoya University

08P-25 **Low Temperature Plasma Chemistry of Volatile and Non-Volatile Solutes in Aqueous Solutions: e.p.r. and Spin Trapping Studies**

[1,3]Hidefumi Uchiyama, [2]Kenji Ishikawa, [2]Masaru Hori and [3]Takashi Kondo

[1]Tateyama Machine Co. Ltd.
[2]Nagoya University
[3]University of Toyama

08P-26 **Uniformity of the Introduction of Substances into Cells by Plasma at the Micro Air-Liquid Interface**

Yuki Tsutsui, Motonari Suzuki and Shinya Kumagai

Meijo University

08P-27 **Study on Dielectric Barrier Discharge Plasma Irradiation Conditions for the Measurement of Active Species Passing through Lipid Bilayers.**

Yuto Ando and Shinya Kumagai
Meijo University

08P-28 **Biocompatibility of Conformal Coating of SiC on Carbon Nanowall Scaffold**

[1]Koki Ono, [1]Takashi Koide, [2]Kenji Ishikawa, [2]Hiromasa Tanaka, [2]Hiroki Kondo, [2]Ayae Sugawara-Narutaki, [3]Yong Jin, [3]Shigeo Yasuhara, [2]Masaru Hori and [1]Wakana Takeuchi
[1]Aichi Institute Technology
[2]Nagoya University
[3]Japan Advanced Chemicals Ltd.

08P-29 **Improvement of Efficiency of Biodegradation of Polyethylene Terephthalate Using Neutral-Oxygen-Radical Source**

[1]Daichi Goto, [1]Naoyuki Iwata, [1]Kenji Ishikawa, [1]Hiroshi Hashizume, [1]Hiromasa Tanaka, [2]Masafumi Ito and [1]Masaru Hori
[1]Nagoya University
[2]Meijo University

08P-30 **Effect of Cold Plasma Treatment on the Paramagnetic Species of Seed Coats**

[1]Pankaj Attri, [1]Takamasa Okumura, [1,2]Kazunori Koga and [1]Masaharu Shiratani
[1]Kyushu University
[2]Center for Novel Science Initiatives, National Institute of Natural Science, Tokyo, Japan

08P-31 **Growth-Promotion Effect of Oxygen-Radical-Treated Tryptophan Solutions on Arabidopsis Thaliana**

[1]Shota Araki, [1]Tomomiti Ota, [1]Hironaka Tsukagoshi, [2]Naoyuki Iwata, [2]Masaru Hori and [1]Masafumi Ito
[1]Meijo University
[2]Nagoya University

08P-32 **Analysis of Cells Directly Irradiated with Cold Atmospheric Pressure Plasma**

Yuki Ogawa, Motonari Suzuki, Masafumi Ito and Shinya Kumagai
Meijo University

Short Presentation (Poster) 3 March 8 (TUE) 19:00～20:00

08P-34 **Effect of Atmospheric Pressure Nitrogen Plasma Assistance on Mist CVD of Zinc Oxide Thin Films**

Hiroya Kobayashi, Keigo Takeda and Mineo Hiramatsu
Meijo University

08P-35 **Two Photon Laser Induced Fluorescence to Measure Nitrogen Atomic Density in NAGDIS-T**

[1]Shin Kajita, [1]Ryosuke Nishio, [1]Hirohiko Tanaka, [1]Keigo Tojo, [1]Kota Hiraiwa, [2]Ryo Yasuhara, [3]Mitsutoshi Aramaki and [1]Noriyasu Ohno
[1]Nagoya University
[2]National Institute for Fusion Science
[3]Nihon University

08P-36 **Optical Wave Microphone Measurement of Pressure Waves Generated during Plasma Formation**

[1]Masahiro Kamasaki, [1]Khing Zaw Phyo, [2]Toshiyuki Kawasaki and [1]Fumiaki Mitsugi
[1]Kumamoto University
[2]Nishinippon Institute of Technology

08P-38 **Optical Wave Microphone Measurement of Sound Waves Generated from a Surface Discharge Driven by a High Voltage Pulse**

[1]Daichi Suemoto, [2]Yoshito Sonoda, [2]Toshiyuki Nakamiya and [1]Fumiaki Mitsugi
[1]Kumamoto University
[2]Shin-Giken Co., Ltd.

08P-39 **Detection of Sound Arrival Direction Using Optical Wave Microphone for Application of Plasma Diagnostics**

[1]Asuka Uto, [1]Fumiaki Mitsugi, [2]Toshiyuki Nakamiya and [2]Yoshito Sonoda
[1]Kumamoto University
[2]Shin-Giken Co., Ltd.

08P-40 **Effect of Gouy Phase Shift on Optical Vortex Laser Absorption Spectroscopy**

[1]Hiroki Minagawa, [2]Hirokazu Kobayashi, [3]Shinji Yoshimura, [4]Kenichiro Terasaka and [1]Mitsutoshi Aramaki
[1]Nihon University
[2]Kochi University of Technology
[3]National Institute for Fusion Science
[4]Kyushu University

08P-41 **Study for Densification and Stabilization of Hydrogen-Isotope Plasma in NAGDIS-II**

Imaeda Yohei, Sakakibara Takehiro, Natsume Hiroki, Tanaka Hirohiko, Kajita Shin and Ohno Noriyasu
Nagoya University

08P-42 **Thermal Atomic Layer Etching of Cobalt with Plasma Chlorination and Ligand Volatilization**

Yongjae Kim, Hojin Kang, Hyungwoo Lee, Heeju Ha and Heeyeop Chae
Sungkyunkwan University

08P-43 **Oxide Etch Process Design for Particle Contamination Reduction in Plasma-Etching Equipment**

Chingming Ku and Stone Cheng
National Chiao Tung University

08P-44 **Effect of Air Introduction between Electrodes on Rapid Removal Process of Polymer Contamination on Floor by Atmospheric Pressure Plasma**

[1]Yoshihiro Sakamoto, [2]Takayoshi Tsutsumi and [2]Masaru Hori
[1]panasonic co.,Ltd
[2]Nagoya University

08P-45 **Prediction of the Relaxation of a Polyethylene Damaged by Substituted Tritium Based on the Linear Response Theory**

[1,2]Ryuta Kawanami, [1]Susumu Fujiwara, [3,4]Hiroaki Nakamura and [5,6]Kazumi Omata
[1]Kyoto Institute of Technology
[2]Kansai Photon Science Institute
[3]National Institute for Fusion Science
[4]Nagoya University
[5]National Center for Global Health and Medicine
[6]Kumamoto University

08P-46 **Optical Vortex Propagation Simulation in Corrugated Waveguide**

[1]Yoshihisa Fujita, [2,3]Hiroaki Nakamura, [4]Hideki Kawaguchi, [5]Shin Kubo and [2]Yuki Goto
[1]Ritsumeikan University
[2]National Institute for Fusion Science
[3]Nagoya University
[4]Muroran Institute of Technology
[5]Chubu University

08P-47 **Long Term Synthesis of Silver Nanoparticles Using a Liquid-Flow Plasma Device**

[1]Kazuya Yamaguchi, [1,2]Haruka Suzuki, [2]Kensuke Sasai and [1,2,3]Hirotaka Toyoda
[1]Department of Electronics, Nagoya University
[2]Center for Low-temperature Plasma Science, Nagoya University
[3]National Institute of Fusion Science

08P-48 **Effect of Atmospheric Pressure Plasma on Chitosan-Acrylic Acid Blends**

Kathrina Lois Taaca, Mark Jeffry De Leon, Eloise Prieto and Magdaleno Vasquez Jr
University of the Philippines-Diliman

08P-51 **Synthesis of β-$FeSi_2$ by Molten Salt Method**

Ye Li, Yosuke Shimura and Hirokazu Tatsuoka
Shizuoka University

08P-52 **Controllable Fabrication of Au-Nanoprotrusion Arrays as a Substrate for the Cross-Sectional Transmission Electron Microscopy Characterization**

[1]Wei Ming Lin, [1]Shinsuke Ozeki, [1]Takumi Yoshida, [1]Kento Oyama, [2]Tatsuya Akiyama, [3]Yazid Yaakob, [1]Toru Asaka, [1]Noriyuki Sonoyama and [1]Masaki Tanemura
[1]Nagoya Institute of Technology
[2]F.C.C. Co.Ltd
[3]Universiti Putra Malaysia

08P-53 **Glucose Oxidase Modification of Nanographene Materials Synthesized by In-Liquid Plasma**

Issei Kuzumi, Keigo Takeda and Mineo Hiramatsu
Meijo University

08P-55 **The Electrical Characterization and Interfacial Property of α- and β-MoO_3 by Plasma-Enhanced Atomic Layer Deposition on Silicon Substrate**

Yi-Hui Juan and Chien-Chieh Lee
National Central University

08P-56 **Phonon Transport in Thin Si Layers with Surface Roughness Controlled by Atmospheric Plasma Treatment**

[1]Hiroya Ikeda, [1]Arashi Yamaguchi, [1]Ryota Kasagi, [1]Yuto Kato, [2]Khotimatul Fauziah, [1]Yukinori Ono and [1]Akihisa Ogino
[1]Shizuoka University
[2]Agency for the Assessment and Application of Technology

08P-57 **Change in Properties of NiO Films by Thermal Annealing**

Ryuya Ito, Yuto Ebata, Tomoyuki Suzuki, Shigeru Yamada and Takashi Itoh
Gifu University

08P-60 **Design of Wideband CMOS Biosensor with Active-Inductor-Based VCO for Detecting CTCs and Exosomes**

Takuya Tsujimura, Guowei Chen, Yuma Hayashi, Sora Kato and Kiichi Niitsu
Nagoya University

08P-61 **Preparation of Conductive Silver Electrodes by Microplasma Direct Printing for Biosensing Applications**

Zhe-Ming Hsu and Meng-Jiy Wang
National Taiwan University of Science and Technology

08P-62 **Study of the Effect of Plasma-Activated Water Generated by Different Sources on Ca^{2+} Signalling in Arabidopsis Thaliana**

[1]Vanni antoni, [2]Enrico Cortese, [3]Luca Cappellin, [4]Manuele Dabalà, [1]Alessandro Fassina, [5]Alessia Famengo, [5]Alessandro Galenda, [4]Alessio G. Settimi and [2,6]Lorella Navazio
[1]Consorzio RFX
[2]Department of Biology, University of Padova , Italy
[3]Department of Chemical Sciences, University of Padova, Italy
[4]Department of Industrial Engineering, University of Padova, Italy
[5]CNR Institute of Condensed Matter Chemistry and Technologies for Energy (ICMATE), Padova, Italy
[6]Botanical Garden, University of Padova, Italy

08P-63 **Enhanced Bioremediation of 4-Chlorophenol by Oxygen Radical Treatment Based on Non-Thermal Atmospheric Pressure Plasma**

[1]Hiroyuki Kato, [1]Kiyota Sakai, [1]Shou Ito, [2]Naoyuki Iwata, [1]Masafumi Ito, [2]Masaru Hori, [1]Motoyuki Shimizu and [1]Masashi Kato
[1]Meijo University
[2]Nagoya University

08P-64 **Effect of Atmospheric Pressure Non-Thermal Plasma Treatment on Enhancement of Plant Growth**

Norrawit Tonmitr and Akira Yonesu
University of the Ryukyus

08P-65 **Absorbance and Nutrient Measurement of Filtrate Prepared from Ozonated Soil**

[1]Yuto Nomaguchi, [2]Mai Kai Suan Tial and [1]Fumiaki Mitsugi

[1]Kumamoto University
[2]Yangon technological University

08P-66 **Improvement of Degradation Rate of Carboxymethyl Cellulose Using Ambient-Air Glow Discharge**

[1]Kazuma Okamoto, [2]Hu Xin, [1]Masahiro Maebayashi, [1]Motoyuki Shimizu, [1]Masashi Kato and [1]Masahumi Ito

[1]Meijo University
[2]Nagoya University

Short Presentation (Poster) 4 March 9 (WED) 19:00～20:00

09P-01 **The role of Oxygen Vacancy on Thermochromic Transition of W-Doped VO_2 Films Explained by Current-Variable Hall Technique**

[1]Ding-Yeong Wang and [2]Pi-Chun Juan

[1]Feng Chia University

[2]Ming Chi University of Technology

09P-02 **Etching of a Layer from Stacked Graphene in Remote Oxygen Plasma**

Liugang Hu, Kenji Ishikawa, Thi-Thuy-Nga Nguyen, Shih-Nan Hsiao, Hiroki Kondo, Makoto Sekine and Masaru Hori

Nagoya University

09P-03 **A Two-Dimensional Molecular Dynamics Simulation Study of Titanium Nitride Deposition in Micro-Trenches**

[1,2]Catherine Joy Dela Cruz, [2,3]Glenson R. Panghulan, [2]Kenneth R. Duque and [2]Magdaleno R. Vasquez, Jr.

[1]Ateneo de Manila University

[2]University of the Philippines-Diliman

[3]University of the Philippines

09P-05 **Fabrication and Evaluation of N-Polar AlGaN/AlN High Electron Mobility Transistor**

[1]Wataru Matsumura, [1]Kazuya Ataka, [1]Lu You, [1]Shunsuke Matsuda, [1]Koki Hanasaku, [1]Daisuke Inahara, [2]Yongzhao Yao, [2]Yukari Ishikawa, [1]Narihito Okada, [1]Satoshi Kurai, [1]Yoichi Yamada and [1]Kazuyuki Tadatomo

[1]Yamaguchi University

[2]Japan Fine Ceramics Center

09P-06 **Characterization of Green-Red Emissions from {11-22} Semipolar Multiple Quantum Wells on Fully Relaxed InGaN Underlayer**

Yuya Tawarazako, Naoya Nishi, Nakata Atsuto, Shunsuke Tanigawa, Narihito Okada, Satoshi Kurai, Yoichi Yamada and Kazuyuki Tadatomo

Yamaguchi University

09P-07 **Fabrication of Extended Absorption $((CH_3NH_3)_{1-x}Cs_x)_3Bi_2I_9$ (x=0-1) Hybrid-Perovskite Solar Cells (HPeSC's) via Hot Immersion Method**

[1,2]Mohd Faizal Bin Achoi, [1]Shunsuke Aiba, [1]Shinya Kato, [1]Naoki Kishi and [1]Tetsuo Soga

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[2]Universiti Teknologi MARA, Cawangan Sabah, Kampus Kota Kinabalu, Sabah 88997, Malaysia

09P-11 **Formation and Characterization of Titanium Nitride by Using a Torus-Type Device NAGDIS-T**

Keigo Tojo, Noriyasu Ohno, Shin Kajita, Hirohiko Tanaka and Ryosuke Nishio

Nagoya University

09P-12 **Suppression of Ga Diffusion by Interfacial Barrier Layer in AlSiO/p-GaN**

[1]Xiaoyu Tian, [1]Wang Liu, [1]Akio Ohta, [1]Noriyuki Taoka, [1]Katsunori Makihara, [2]Tetsuo Narita, [2]Kenji Ito, [2]Keita Kataoka, [2]Shiro Iwasaki, [2]Daigo Kikuta, [1]Kazuyoshi Tomita and [1]Seiichi Miyazaki

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09P-13 **Photoemission Study of Mg Doped GaN(0001) Surfaces**
Wang Liu, Xiaoyu Tian, Akio Ohta, Noriyuki Taoka, Katsunori Makihara and Seiichi Miyazaki
Nagoya University

09P-14 **Photo-Assisted C-V Measurement of p-GaN MOS Diodes**
Yuya Tamamura, Takahide Nukariya and Masamichi Akazawa
Hokkaido University

09P-15 **Growth of Ultra-Thin GaN/AlN Superlattice Structure toward Deep-UV Emission**
[1]Naoya Mokutani, [1]Yuichi Wada, [1]Shinichiro Mouri, [2]Kanako Shojiki, [2]Shiyu Xiao, [2]Hideto Miyake and [1]Tsutomu Araki
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09P-16 **Effect of a Thin AlN Layer Inserted into the GaN Drift Layers on Reverse Breakdown Behavior for Fully Vertical GaN-on-Si Schottky Barrier Diodes**
Akira Mase, Pradip Dalapati, Toshiharu Kubo, Makoto Miyoshi and Takashi Egawa
Nagoya Institute of Technology

09P-19 **Formation of Carbon Nanotube Yarns by Gas Discharge Breakdown Using Multi-Electrode Configuration**
Hiro Hayama and Hideki Sato
Mie University

09P-20 **Measurements of Gas Mixing Ratio by Gas Discharge Breakdown Using Electrode with Carbon Nanotubes**
Kohei Yamamoto and Hideki Sato
Mie University

09P-22 **Capping Effect by Surfactant Addition for in Microwave-Assisted Nanoparticle Synthesis Process**
Takahiro Takai, Atsuya Shibatani and Yusuke Asakuma
University of Hyogo

09P-23 **Formation Process of Large-Scale Fiberform Nanostructures on a Tungsten Mesh in Co-Deposition Environment of Helium Plasma and Tungsten**
Kenta Hori, Shin Kajita, Rongshi Zhang, Hirohiko Tanaka and Noriyasu Ohno
Nagoya University

09P-25 **Carbon Layer Formation on Boron Nitride via a Plasma in Hydroquinone Solution**
[1,2]Kenichi Inoue, [1,2]Noritaka Sakakibara, [1,2]Taku Goto, [1,2]Tsuyohito Ito, [2]Yoshiki Shimizu, [3]Kenji Ishikawa, [3]Masaru Hori and [1,2]Kazuo Terashima
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09P-26 **Measurement of RONS Concentration in Plasma-Irradiated Artificial Seawater**
Takumi Yamauchi, Naoyuki Iwata, Kenji Ishikawa, Hiroshi Hashizume, Hiromasa Tanaka, Shinichi Akiyama and Masaru Hori
Nagoya University

09P-27 **Specific Killing Effects of Plasma Activated Medium toward Human Melanoma Cancer Cell (A375) and Human Foreskin Fibroblasts (HFF)**

Li-Ling Lo and Meng-Jiy Wang
National Taiwan University of Science and Technology

09P-28 **Dependence of Depth in Liquid Irradiated with Nitric-Oxide Radicals on Proliferation of Fibroblast Cells**

[1]Yasumasa mori, [1]Taiga Nishida, [1]Rikako Kumagai, [2]Naoyuki Iwata, [1]Tomiyasu Murata, [2]Masaru Hori and [1]Masafumi Ito
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09P-29 **Spatio-Temporal Distribution Measurement of Active Species in Plasma-Activated Solution**

Hiromi Yamamoto and Masafumi Ito
Meijo University

09P-34 **Design of 33GHz CMOS Transmitter with Gate-Leakage Oscillator Based Temperature Sensor for Non-Invasive Continuous Blood Glucose Monitoring**

Takuya Tsujimura, Guowei Chen, Yuma Hayashi, Sora Kato and Kiichi Niitsu
Nagoya University

09P-35 **Analysis of Hydrogen Recycling Process on Carbon Material by Molecular Dynamics Simulation and Attempt at development of its Deep Learning Model**

[1]Seiki Saito, [2,3]Hiroaki Nakamura, [3]Kazuki Takasan, [4]Keiji Sawada, [2]Masahiro Kobayashi, [5]Masahiro Hasuo and [6]Takeshi Ido
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