

- 04pP01      **Structure Observation of Enzyme Embedded In Plasma-Polymerized Film and Its Biosensor Performance**  
Y. Kase, H. Muguruma  
Shibaura Institute of Technology, Japan
- 04pP02      **Sterilization of Fuzarium Oxysporum by Non-Equilibrium Plasma Irradiation**  
<sup>1</sup>Y. Mori, <sup>1</sup>S. Seki, <sup>1</sup>S. Yasui, <sup>2</sup>H. Terazoe, <sup>2</sup>K. Shoji  
<sup>1</sup>Nagoya Institute of Technology, Japan  
<sup>2</sup>Central Research Institute of Electric Power Industry, Japan
- 04pP03      **Soil Sterilization with Ozone Generated by Surface Dielectric Barrier Discharge for Agricultural Application**  
<sup>1</sup>T. Nagatomo, <sup>1</sup>K. Takigawa, <sup>1</sup>Y. Yamasaki, <sup>1</sup>T. Sakai, <sup>1</sup>F. Mitsugi, <sup>1</sup>T. Ikegami, <sup>2</sup>K. Ebihara, <sup>3</sup>S. Aoqui, <sup>4</sup>K. Nagahama  
<sup>1</sup> Kumamoto University, Japan  
<sup>2</sup> Environment and Energy Laboratory, Japan  
<sup>3</sup> Sojo University, Japan  
<sup>4</sup> Sojo University, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

~~04pP04~~ ~~Investigating the Effect of O<sub>2</sub> Plasma on Chloroplasts Separation from Plant Leaves Using A~~  
<Withdrawn> ~~Microfluidics~~

~~M. S. Hung, Y. D. Shao~~

~~National Tsing Hua University, Taiwan~~

04pP05 **Vibrational Analysis of Biological Samples Treated with Atmospheric Pressure Plasma Using  
Multiplex Oherent Anti-Stokes Raman Scattering Microspectroscopy**

<sup>1</sup>H. Kato, <sup>1</sup>T. Ohta, <sup>2</sup>K. Takeda, <sup>1</sup>H. Hashizume, <sup>2</sup>M. Hori, <sup>1</sup>M. Ito

<sup>1</sup> Meijo University ,Japan

<sup>2</sup> Nagoya University, Japan

04pP06 **One-Step Lysozyme Immobilization by an Aerosol Assisted Atmospheric-Pressure Plasma Deposition**

Y. W. Yang, G. Camporeale, E. Sardella, G. Dilecce, F. Palumbo, P. Favia, J. S. Wu

<sup>1</sup> National Chiao Tung University, Taiwan

<sup>2</sup> Università Degli Studi Di Bari, Italy

<sup>3</sup> Istituto Di Metodologie Inorganiche E Dei Plasmi, CNR, Italy

- 04pP07      **Emission Characteristics of Metallic Elements in Solution using Non-Equilibrium Atmospheric Pressure Microplasma**  
    <sup>1</sup>J. Kularatne, <sup>2</sup>T. Ohta, <sup>1</sup>J. Jolibois, <sup>2</sup>M. Ito, <sup>2</sup>H. Takemura, <sup>3</sup>H. Kano, <sup>1</sup>H. Kondo, <sup>1</sup>K. Ishikawa, <sup>1</sup>M. Sekine, <sup>1</sup>M. Hori  
    <sup>1</sup>Nagoya University, Japan  
    <sup>2</sup>Meijo University, Japan  
    <sup>3</sup>Nu Eco Engineering Co. Ltd., Japan
- 04pP08      **Internal Sterilization of A Narrow Tube by ECR Plasma**  
    <sup>1</sup>K. Hara, <sup>1</sup>A. Yonesu, <sup>2</sup>N. Hayashi  
    <sup>1</sup> University of The Ryukyus, Japan  
    <sup>2</sup> Kyushu University, Japan
- 04pP09      **Sterilization of Fruits Surface Using Non-Thermal Atmospheric Pressure Plasma Produced by Surface Discharges**  
    <sup>1</sup>K. Sugimoto, <sup>1</sup>A. Yonesu, <sup>2</sup>N. Hayashi  
    <sup>1</sup> University of The Ryukyus ,Japan  
    <sup>2</sup> Kyushu University, Japan
- 04pP10      **Modification of Polymeric Membranes with Biomimetic Materials by Atmospheric-Pressure Plasmas**  
    H. L. Shih, T. C. Wei  
    Chung-Yuan University, Taiwan

- 04pP11      **Experimental Investigation of Cell Adhesion And Proliferation on Polylactide Surface Using A Nitrogen-Based Atmospheric-Pressure Planar Dielectric Barrier Discharge Jet With Short Electrodes**  
K. Y. Cheng, Y. W. Yang, G. C. Liao, J. S. Wu  
National Chiao Tung University, Taiwan
- 04pP12      **Growth Enhancement of Plants Due to Plasma Atmospheric Pressure Irradiation to Seeds in Liquid**  
<sup>1</sup>T. Sarinont, <sup>1</sup>K. Koga, <sup>2</sup>S. Kitazaki, <sup>2</sup>N. Hayashi, <sup>1</sup>M. Shiratani  
<sup>1</sup> Kyushu University, Japan  
<sup>2</sup> Kyushu University, Japan
- 04pP13      **Enhanced Hydroxyl Radical Generation of An Argon-Based Atmospheric-Pressure Plasma Jet for Sterilization**  
<sup>1</sup>Z. H. Lin, <sup>2</sup>K. C. Liao, <sup>1</sup>C. T. Liu, <sup>1</sup>Y. W. Yang, <sup>1</sup>J. S. Wu  
<sup>1</sup>National Chiao Tung University, Taiwan  
<sup>2</sup>National Taiwan University, Taiwan
- 04pP14      **Surface Anti-Fouling Layer Prepared by Plasma Ion Implantation Grafting of Poly (2-Ethyl-2-Oxazoline)**  
S. C. Chen, M. Jiywang  
National Taiwan University of Science And Technology

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP15 **Effect of Cell Differentiation on BMP-2 Mimetic Peptide Immobilization on The Plasma-Functionalized 3-D Extruded PCL Scaffolds**  
<sup>1</sup>G. S. Shin, <sup>1</sup>T. Y. Bak, <sup>1</sup>Y. M. Ko, <sup>2</sup>S. W. Yang, <sup>1</sup>B. H. Kim  
<sup>1</sup>Chosun University, Korea  
<sup>2</sup>Chosun University, Korea
- 04pP16 **The Comparision of Protein Loading Efficiency on 3 D PCL Scaffolds with Respect To Plasma Modification Including Etching and Deposition Technique**  
S. W. Myung, H. S. Roh, Y. S. Hwang, Y. H. Hwang, B. H. Kim  
Chosun University, Korea
- 04pP17 **Effects of Oxygen Radical Treatment in Liquid Phase on Inactivation of E. Coli**  
<sup>1</sup>T. Towatari, <sup>1</sup>H. Hashizume, <sup>1</sup>T. Ohta, <sup>2</sup>M. Hori, <sup>1</sup>M. Ito  
<sup>1</sup>Meijo University  
<sup>2</sup>Nagoya University
- 04pP18 **Fluoescent Analysis of Inactivation Mechanism of *P. Digitatum* Spores Treated with Oxygen Radicals**  
<sup>1</sup>H. Hashizume, <sup>1</sup>T. Towatari, <sup>1</sup>T. Ohta, <sup>2</sup>K. Takeda, <sup>2</sup>K. Ishikawa, <sup>2</sup>M. Hori, <sup>1</sup>M. Ito  
<sup>1</sup>Meijo University, Japan  
<sup>2</sup>Nagoya University, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP19      **Nanostructural Observation of *P. Digitatum* Spores on The Inactivation Process with Oxygen Radical Treatment**  
              <sup>1</sup>H. Hashizume, <sup>1</sup>T. Ohta, <sup>2</sup>K. Takeda, <sup>2</sup>K. Ishikawa, <sup>2</sup>M. Hori, <sup>1</sup>M. Ito  
              <sup>1</sup>Meijo University, Japan  
              <sup>2</sup>Nagoya University, Japan
- 04pP20      **Promotion and Repression Effects of Oxygen Radical Treatment on Budding Yeast Cells**  
              <sup>1</sup>H. Hashizume, <sup>1</sup>T. Ohta, <sup>2</sup>M. Hori, <sup>1</sup>M. Ito  
              <sup>1</sup>Meijo University, Japan  
              <sup>2</sup>Nagoya University, Japan
- 04pP21      **Investigation of Main Sterilization Factor of Bacterial Spores by Atmospheric Pressure Air Plasma**  
              <sup>1</sup>K. Nakamura, <sup>2</sup>D. Yoshino, <sup>2</sup>T. Nakajima, <sup>2</sup>T. Sato  
              <sup>1</sup>Tohoku University, Japan  
              <sup>2</sup>Tohoku University, Japan
- 04pP22      **Surface Characteristics of EB-PVD Si-HA Coating on The Plasma Electrolytic Oxidized Ti-Xhf Alloys**  
              H. C. Choe  
              Chosun University, Korea

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP23 **Integrative Analysis of Cellular Response Induced by Non-Thermal Plasma**  
H. Kurita, K. Sano, M. Shimizu, T. Nakajima, H. Yasuda, K. Takashima, A. Mizuno  
Toyohashi University of Technology, Japan
- 04pP24 **Manganese-Hydroxyapatite Coated Ti-Nb Alloy by Plasma Sputtering Methods**  
C. I. Jo, H. C. Choe  
Chosun University, Korea
- 04pP25 **Molecular Structural Change of Soft Materials Via Irradiation with Atmospheric-Pressure Plasma Jet for Plasma Medicine**  
K. Takenaka, A. Miyazaki, K. Kawabata, G. Uchida, Y. Setsuhara  
Osaka University, Japan
- 04pP26 **Fungicidal Effect of Atmospheric Pressure Dielectric Barrier Discharge (APDBD) on *Penicillium Digitatum* Spore on Citrus**  
<sup>1</sup>Y. Yagyū, <sup>1</sup>N. Matsumoto, <sup>2</sup>N. Hayashi, <sup>1</sup>T. Yamasaki, <sup>1</sup>H. Kawasaki, <sup>1</sup>T. Ohshima, <sup>1</sup>T. Ihara,  
<sup>1</sup>Y. Suda  
<sup>1</sup>Sasebo National College of Technology, Japan  
<sup>2</sup>Kyushu University, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP27      **Spatial Profiles of Emission Spectra From Atmospheric-Pressure Plasma Jet For Plasma Medicine**  
              <sup>1</sup>G. Uchida, <sup>1</sup>K. Takenaka, <sup>1</sup>A. Miyazaki, <sup>1</sup>K. Kawabata, <sup>1</sup>Y. Setsuhara, <sup>2</sup>M. Hori  
              <sup>1</sup>Osaka University, Japan  
              <sup>2</sup>Nagoya University, Japan
- 04pP28      **Effects of Gas-Mixing Structure on Discharge Properties of Atmospheric-Pressure Plasma Jet for Plasma Medicine**  
              G. Uchida, K. Takenaka, A. Miyazaki, K. Kawabata, Y. Setsuhara  
              Osaka University, Japan
- 04pP29      **Effect of Bimodal Diamond Particle Size Distribution on Thermal Properties of Al/Diamond Composite Fabricated By SPS**  
              <sup>1</sup>K. Mizuuchi, <sup>2</sup>K. Inoue, <sup>1</sup>Y. Agari, <sup>1</sup>M. Sugioka, <sup>1</sup>M. Tanaka, <sup>1</sup>T. Takeuchi, <sup>1</sup>J. Tani, <sup>3</sup>M. Kawahara, <sup>3</sup>Y. Makino, <sup>3</sup>M. Ito  
              <sup>1</sup> Osaka Municipal Technical Research Institute, Japan  
              <sup>2</sup> University of Washington, USA  
              <sup>3</sup> Fuji Electronic Industrial Co., Ltd., Japan  
              <sup>4</sup> Kyoto University, Japan  
              <sup>5</sup> Osaka University, Japan



ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP30 **Perpendicular Magnetization Reversal Mechanism of Functional Fept Films for Magnetic Storage Medium**  
D. H. Wei, C. H. Chao, P. W. Chi  
National Taipei University of Technology, Taiwan
- 04pP31 **The Characteristics of Glass Fiber Reinforced Plastics Embedded with Shape Memory Alloy and Silicone Plates Embedded with Superelastic Alloy Wires**  
M. Tanaka, K. Mizuuchi, M. Sugioka, S. Yamada  
Osaka Municipal Technical Research Institute, Japan
- 04pP32 **Perpendicular Magnetization Behavior of Functional Cu/Fept Nanobilayers for Magnetic Recording Media**  
D. H. Wei, P. W. Chi, C. H. Chao  
National Taipei University of Technology, Taiwan
- 04pP33 **Joining of Stainless Steels by Spark Plasma Sintering Process**  
T. Furuhashi, T. Matsumoto, Y. Watanabe, H. Sato  
Nagoya Institute of Technology, Japan
- 04pP34 **Development of Al-Based  $\text{TiO}_2$  Photocatalytic Functionally Graded Materials Fabricated by Centrifugal Mixed-Powder Method**  
J. Maeda, H. Sato, Y. Watanabe  
Nagoya Institute of Technology, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP35 **Annealing temperature dependent structural evolution and electric response of ZnO–TiO<sub>2</sub> core-shell nanostructures**  
Y. C. Liang, W. K. Liao  
National Taiwan Ocean University, Taiwan
- 04pP36 **Change of Phase Transformation Temperature of Fe-Ni Alloy by Shot Peening**  
M. Okada, H. Sato, Y. Watanabe  
Nagoya Institute of Technology, Japan
- 04pP37 **Effect of Thermo-Mechanical Training with Bending Mode on Damping Capacity in Fe-20mass%Mn Alloy**  
N. Iwata, Y. Watanabe, H. Sato, Y. Nishino  
Nagoya Institute of Technology, Japan
- 04pP38 **Development of Strain Sensitive Multilayered Films for High-Temperature Pressure Sensors**  
Y. Kakehi, Y. Yamada, T. Matsunaga T. Oguri, Y. Hasegawa, K. Satoh  
Technology Research Institute of Osaka Prefecture, Japan
- 04pP39 **Hot Roll Bonding of Pure Al and Interstitial Free Steel Plates**  
<sup>1</sup>T. Harada, <sup>1</sup>H. Tsukamoto, <sup>1,2</sup>Y. Komiya, <sup>1</sup>H. Sato, <sup>1</sup>Y. Watanabe  
<sup>1</sup>Nagoya Institute Of Technology, Japan  
<sup>2</sup>Nihon University, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP40 **Functionally Gradient Material of Carbonated Hydroxyapatite Prepared by Spark Plasma Sintering**  
D. Kawagoe, N. Satou, T. Kosuta, R. Masuda, T. Kaneko, A. Shinohara  
Oyama National College of Technology, Japan
- 04pP41 **Multiferroic and Structural Transition Properties of  $\text{Bi}_{1-x}\text{PbxFe}_{0.95}\text{Mn}_{0.05}\text{O}_3$  Thin Films**  
<sup>1</sup>M. C. Kao, <sup>1</sup>H. Z. Chen, <sup>1</sup>S. L. Young, <sup>2</sup>C. Y. Kung  
<sup>1</sup>Hsiuping University of Science And Technology, Taiwan  
<sup>2</sup>National Chung Hsing University, Taiwan
- 04pP42 **Studying the Surface Quality of ZnO Nanorods by Second Harmonic Generation**  
<sup>1</sup>C. W. Liu, <sup>1</sup>S. J. Chang, <sup>1</sup>C. H. Hsiao, <sup>2</sup>C. C. Liu, <sup>2,3</sup>K. Y. Lo  
<sup>1</sup>National Cheng Kung University, Taiwan  
<sup>2</sup>National Cheng Kung University, Taiwan  
<sup>3</sup>National Cheng Kung University, Taiwan
- 04pP43 **Effects of Hydrolysis on The Luminescence of  $\text{ZnAl}_2\text{O}_4:\text{Mn}^{2+}$  Nanophosphors Prepared With The Urea-Assisted Sol-Gel Process**  
<sup>1</sup>M. T. Tsai, <sup>2</sup>H. L. Chen, <sup>3</sup>Y. S. Chang, <sup>1</sup>Y. Y. Chen  
<sup>1</sup>National Formosa University, Taiwan  
<sup>2</sup>Kao Yuan University, Taiwan  
<sup>3</sup>National Formosa University, Taiwan

04pP44

**Effects of Pr<sub>3</sub><sup>+</sup> Ion-Doped Ba<sub>2</sub>ZnO<sub>5</sub> Phosphor Prepared Using Sol Gel Method**

<sup>1</sup>B. Y. Chen, <sup>1</sup>H. L. Chen, <sup>2</sup>M. T. Tsai, <sup>3</sup>Y. S. Chang

<sup>1</sup>Kao Yuan University, Taiwan

<sup>2</sup>National Formosa University, Taiwan

<sup>3</sup>National Formosa University, Taiwan

04pP46

**Annealing Effect of Thermal Reduced Molybdenum Sulfide as A Pt-Free and Highly Electrocatalytic Counter Electrode for Dye-Sensitized Solar Cells**

<sup>1</sup>C. H. Lin, <sup>2</sup>C. C. M. Ma, <sup>1</sup>F. R. Chen, <sup>1</sup>C. H. Tsai, <sup>3</sup>C. K. Hsieh

<sup>1</sup>National Tsing Hua University, Taiwan

<sup>2</sup>National Tsing Hua University, Taiwan

<sup>3</sup>Ming Chi University of Technology, Taiwan

04pP47

**Interface Reaction with Different Iodine Electrolyte Concentration at the Platinum Electrode in Dye-Sensitized Solar Cells**

<sup>1</sup>Y. H. Wei, <sup>1</sup>C. H. Lin, <sup>1</sup>C. C. M. Ma, <sup>2</sup>C. H. Tsai, <sup>3</sup>C. K. Hsieh

<sup>1</sup>National Tsing Hua University, Taiwan

<sup>2</sup>National Tsing Hua University, Taiwan

<sup>3</sup>Ming Chi University of Technology, Taiwan

- 04pP48      **Synthesis of Cu-Fe Nanoparticles as Bi-Functional Catalyst for Li-Air Battery**  
    <sup>1</sup>R. Takahashi, <sup>1,2</sup>H. O. L. Li, <sup>1,2,3</sup>N. Saito  
    <sup>1</sup>Nagoya University, Japan  
    <sup>2</sup>Nagoya University, Japan  
    <sup>3</sup>JST CREST, Japan
- 04pP49      **Control of Optical Bandgap in Doped Bismuth Titanates for Novel Optoelectric Device**  
    J. Y. Han, C. W. Bark  
    Gachon University, Korea
- 04pP50      **Investigation of Gate Oxide Integrity under Hot Carrier Stress in Advanced BCD HV PMOS**  
    T. H. Chen, J. F. Chen  
    National Cheng Kung University, Taiwan
- 04pP51      **Pt and PtRu Nanoparticles Electrodeposited Without Hydrogen Evolution Reaction on Mesoporous Carbon Electrode for Methanol Oxidation**  
    <sup>1</sup>H. Y. Chou, <sup>2</sup>C. K. Hsieh, <sup>1</sup>T. K. Yeh, <sup>1</sup>C. H. Tsai  
    <sup>1</sup>National Tsing Hua University, Taiwan  
    <sup>2</sup>Ming Chi University of Technology, Taiwan

- 04pP52      **Fabrication of Quantum-Dot Sensitized Solar Cells Using Ge Nanoparticle Films Deposited by High Pressure Rf Magnetron Sputtering Method**  
    <sup>1</sup>D. Ichida, <sup>1</sup>S. Hashimoto, <sup>2</sup>G. Uchida, <sup>1</sup>H. Seo, <sup>3</sup>K. Kamataki, <sup>1,4</sup>N. Itagaki, <sup>1</sup>K. Koga, <sup>1</sup>M. Shiratani  
    <sup>1</sup>Kyushu University, Japan  
    <sup>2</sup>Osaka University, Japan  
    <sup>3</sup>Kyushu University, Japan  
    <sup>4</sup>Japan Science And Technology Agency, Japan
- 04pP53      **Synthesis of Pt Nanoparticles Supported on Cnts by Solution Plasma Sputtering Processing**  
    <sup>1</sup>W. Yaowarat, <sup>2</sup>O. L. H. Li, <sup>3</sup>N. Saito  
    <sup>1</sup>Nagoya University, Japan  
    <sup>2</sup>Nagoya University, Japan  
    <sup>3</sup>Nagoya University, Japan
- 04pP54      **Catalytic Activity and Durability for Oxygen Reduction Reaction of Hetero-Atom Doped Mesoporous Carbons**  
    <sup>1</sup>D. W. Kim, <sup>2</sup>O. L. Li, <sup>3</sup>N. Saito  
    <sup>1</sup>Nagoya University, Japan  
    <sup>2</sup>Nagoya University, Japan  
    <sup>3</sup>Nagoya University, Japan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP55 **Reliability of Devices in Periphery Circuitry of NAND Flash Memory**  
T. H. Lu, D. R. Ai, J. F. Chen  
National Cheng Kung University, Taiwan
- 04pP56 **Effects of Device Dimension on Reliability of N-LDMOS Transistors**  
Y. S. Fing, Y. M. Liu, J. F. Chen  
National Cheng Kung University, Taiwan
- 04pP57 **An MD Study of Self-Induced Bubble Growth in W Under He Irradiation**  
R. Kobayashi, T. Hattori, T. Tamura, S. Ogata  
Nagoya Institute Of Technology, Japan
- 04pP58 ~~**An Excellent Encapsulation Of Silicone On Crystalline-Si Photovoltaic Devices With ZnO Nanowires**~~  
<Withdrawn> <sup>1</sup>S. Y. Lin, <sup>1</sup>S. J. Chang, <sup>2</sup>T. J. Hsueh, <sup>2</sup>S. M. Lin, <sup>2</sup>J. Y. Tsai  
<sup>1</sup>National Cheng Kung University, Taiwan  
<sup>2</sup>National Nano Device Laboratories, Taiwan
- 04pP59 **The Effect of Dye-Sensitized Solar Cells Based on the Anodizing TiO<sub>2</sub> Nanotube Array/Nanoparticle Double Layer Electrode**  
J. H. Yang, K. H. Kim, C. W. Bark, H. W. Choi  
Gachon University, Korea

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP60 **Y<sub>2</sub>O<sub>3</sub>:Er<sub>3+</sub> Phosphors Doped Photoelectrode for Improving Efficiencies of Dye-Sensitized Solar Cell**  
Y. M. Kim, K. H. Kim, C. W. Bark, H. W. Choi  
Gachon University, Korea
- 04pP61 **Solution Plasma Synthesis Process of Tungsten Carbide on N-Doped Carbon Nanocomposite with Enhancing Catalytic ORR Activity and Durability**  
<sup>1</sup>D. W. Kim, <sup>1,2</sup>H. O. L. L., <sup>1,2,3</sup>N. Saito  
<sup>1</sup> Nagoya University, Japan  
<sup>2</sup> Nagoya University, Japan  
<sup>3</sup> JST CREST, Japan
- 04pP62 **Reversibly Thermoswitchable Two Dimensional Periodic Gratings Prepared From Tethered Poly (N-Isopropylacrylamide) on Silicon Surfaces**  
C. L. Li, J. K. Chen  
National Taiwan University of Science and Technology, Taiwan
- 04pP63 **Understanding Plasma Growth of Fullerene: Effect of Electric Field and Nitrate**  
Y. T. Wang  
Kaohsiung Medical University, Taiwan



ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP64 **The Effects of Different Solvents to Dissolve Active Layer on Organic Solar Cells Based on Polyaniline as Hole Transporting Layer**  
Y. Y Huang, H. Y. Wen, M. Y. Chang  
National Sun Yat-Sen University, Taiwan
- 04pP65 **Highly Conductive of PEDOT : PSS Electrode by Film Soaking with Acidic for ITO-Free Organic Solar Cells**  
C.W. Chiu, Y.C. Hung, C.C. Lin, M.Y. Chang  
National Sun Yat-Sen University, Taiwan
- 04pP66 **The Effects of Anode Buffer Layer on The Performance of Organic Solar Cells**  
C.C. Lin, C.W. Chiu, M.Y. Chang  
National Sun Yat-Sen University, Taiwan
- 04pP67 **Impedance Spectroscopy of  $1-x\text{BaTiO}_3-x\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$  Ceramics**  
<sup>1</sup>H. H. Su, <sup>2</sup>C. S. Hong, <sup>3</sup>C. C. Tsai, <sup>1</sup>S. Y. Chu  
<sup>1</sup>National Cheng Kung University, Taiwan  
<sup>2</sup>National Kaohsiung Normal University, Taiwan  
<sup>3</sup>Tung Fang Design University, Taiwan

ISPlasma2014/IC-PLANTS2014 March 2- 6, 2014 Nagoya, Japan

- 04pP68LN     **Application of AlGaInP Quaternary Compound Tunneling Layer for Highperformance Heterostructure-Emitter Bipolar Transistor**  
J. H. Tsai, C. C. Chiang, Y. T. Chao, F. M. Wang  
National Kaohsiung Normal University, Taiwan
- 04pP69LN     **Synthesis and Characterization of Nanocrystalline CeO<sub>2</sub>/ZnO by Sol-Gel Process**  
<sup>1</sup>Y. S. Yanga, <sup>2</sup>L. Guo, <sup>2</sup>L. G. Teoh  
<sup>1</sup>Kao Yuan University, Taiwan  
<sup>2</sup>National Pingtung University of Science and Technology, Taiwan
- 04pP70LN     **Effect of Extra Pb Excess on Dielectric and Structural Property of Pbtio<sub>3</sub> Thin Films Capacitor**  
N. Zainal, M. Rusop  
Universiti Teknologi Mara, Malaysia
- 04pP71LN     **Unusual Electric Double-Layer Capacitance Increase with Charge-Discharge Cycles of Nitrogen Doped Single-Walled Carbon Nanotubes**  
A. A. Zubaidi, Z. Jiang, S. Kawasaki  
Nagoya Institute of Technology, Japan

04pP72LN

**Synthesis of Nanographene/Pt Composite using Alcohol in-liquid Plasma**

<sup>1</sup>K. Yoshida, <sup>1</sup>M. Ito, <sup>1</sup>M. Hiramatsu, <sup>2</sup>T. Saida, <sup>3</sup>H. Kano, <sup>4</sup>H. Kondo, <sup>4</sup>M. Hori

<sup>1</sup>Meijo University, Japan

<sup>2</sup>Meijo University, Japan

<sup>3</sup>NU ECO ENGINEERING CO.LTD, Japan

<sup>4</sup>Nagoya University, Japan

04pP73LN

**Properties of p-type N Doped Cu<sub>2</sub>O Thin Films Prepared by Reactive Sputtering**

Y. S. Jung, H. W. Choi, K. H. Kim

Gachon University, Korea