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O5P01 High-performance Thin-film Transistors using Amorphous Indium-gallium-oxide Bilayer Channel

Chun-Po Yang and Shoou-Jinn Chang

National Cheng Kung University, Taiwan.

O5P02 Preparation of Metal Doped SiO₂ Thin Film by Sputtering Method using Powder Targets

¹Hiroharu Kawasaki, ¹Tamiko Ohshima, ¹Yoshihito Yagyu, ¹Takeshi Ihara, ¹Masanori Shinohara and ²Yoshiaki Suda

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05P03 Reduction of Metallic and Interstitial Impurities from TiAl Alloy Scraps by Hydrogen Plasma Arc Melting

Jae-Won Lim, Ja-Geon Koo and Jung-Min Oh

Chonbuk National University, Korea

05P04 Low Temperature Atmospheric Pressure Plasma-polymerized

Electrochromic WTi_aFe_xO_yC_z Thin Films for Flexible

Electrochromic Device

Yung-Sen Lin, Pin-Cheng Chen and Min-Chih Liao

Feng Chia University, Taiwan

05P05 Enhanced Scratch Resistance of Flexible Polyethylene

Terephthalate Substrates by Low Temperature Atmospheric Pressure Plasma-polymerized Organoaluminum Oxynitride Films

Zhi-Wei Gu, Jian-Yi Li and Yung-Sen Lin

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05P06 Micro-arcing Rate of DLC Films using Bipolar HiPIMS Method

¹Hiroyuki Fukue, ¹Tatsuyuki Nakatani, ²Tadayuki Okano and

²Masahide Kuroiwa

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05P07 Organosilicon Oxynitride Films Deposited onto Flexible Carbon

Fiber Sheets for Improving Surface Hardness using an

Atmospheric Pressure Plasma Jet

Jui-Hung Chen, Yi-Chen Lai and Yung-Sen Lin

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05P08 Computational Modelling of 900-MHz Argon Plasma Jet at **Atmospheric Pressure** ^{1,2}Ieong Yeon Lee and ¹Jun Choi ¹Korea Institute of Industrial Technology, Korea ²Pusan National University, Korea 05P09 Computational Simulation of Nonequilibrium Arc-Gas Flow Interaction Vyasaraj Bhigamudre, S. Mahnaz Modirkhazeni and Juan Pablo Trelles University of Massachusetts Lowell, USA 05P10 The Separation of Oil in Water using Underwater Plasma Kangil Kim, Suk Hwal Ma, Jin Young Huh and Yong Cheol Hong National Fusion Research Institute, Korea 05P11 Quanitative Visualisation of Reactive Oxygen Radical in Solution Irradiated by Atmospheric Pressure Plasma Hiroto Matsuura, Yoshiki Matsui, Takatomo Fujiyama, Yusuke Morita, Jin Sakamoto, Tetsuaki Tsuchido, Masakazu Furuta and Yuichiro Takemura Osaka Prefecture University, Japan 05P12 Efficiency of OH Radical Production in 3D Integrated Micro Solution Plasma Tatsuru Shirafuji, Junpei Yamamoto and Hiroto Masunaga Osaka City University, Japan 05P13 Preparing p-type ZnO by Micro-oxidation of PVD-ZnN Chiung-Wei Lin and Po-Cheng Liu Tatung University, Taiwan 05P14 Oxidation Behavior of RuAlZr Multilayer Coatings Yung-I Chen and Jia-Wei Jhang National Taiwan Ocean University, Taiwan 05P16 Decolorization of Methylene Blue by Ar Non-thermal Plasma

Sittinun Tawkaew and Khanit Matra

Srinakharinwirot University, Thailand

O5P17 Clinical Application of DLC Thin Film to Denture by Inverter Power Supply Type Plasma CVD Method

¹Yuichi Imai, ²Kazuhiro Kanda, ³Yoko Katoh, Teppei Horikawawa and ⁴Tatsuyuki Nakatani

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²University of Hyogo, Japan

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05P18 Deposition of Photo-catalytic TiO₂ Film by Low Power

Atmospheric Suspension Plasma Spray using Ar/N₂ Working Gas

Sagr Hadi and Yasutaka Ando

Ashikaga Institute of Technology, Japan.

O5P19 Investigation on the Gate Insulator Thickness Dependence of ZnO-SnO₂ Thin Film Transistors

Kazuo Satoh, Yoshiharu Yamada, Yusuke Kanaoka, Shuichi Murakami,

Yoshiharu Kakehi and Yoshiaki Sakurai

Osaka Research Institute of Industrial Science and Technology, Japan

O5P20 Application of Thermal Aprayed TiO₂ to Photovoltaic Device of DSSC

Geoffrey Kibiegon Ronoh, Alavi Kelvin Oluwafunmilade, Ifeanacho

Anyadiegwu and Yasutaka Ando

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05P21 Thermal Desorption of Cs on Microwave Plasma Treated Si

Surface Investigated by Means of Thermionic Emission

Akihisa Ogino and Jumpei Suzuki

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05P22 Wettability and Solvent Analysis of Plasma Polymerized

Polystyrene using an Argon-fed Atmospheric Pressure Plasma Jet

Paolo Edward C. Tan, Christian Lorenz Mahinay, Ivan B. Culaba,

Miguel Ricardo Hilario and Oliver Marin Streeter

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05P23 Langmuir Probe Analysis of Various Multicusp Configurations on

an Ar-C₂H₂ Plasm a in a Hot-filament Type DC Ion Source

Oliver Kevin Marin Streeter, Rafael A. Carreon, Christian Lorenz S.

Mahinay

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O5P24 Application of Functionally Hydrophobic Coating by Atmospheric Pressure Plasma Jet

¹Yu-Lin Kuo, ¹Chi-Liang Ko, ¹Jie-Long Wang and ²Hsing-Ju Sheng

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O5P25 Influence of Electric Prameters on Hydroxyl Radical Production Efficency using Discharge Plasma inside Bubble in Water

Katsuyuki Takahashi, Masahiro Takeda, Ryosuke Konno, Koichi

Takaki and Naoya Satta

Iwate University, Japan

O5P26 Application in Surface Modification with Different Material and Geometry of Ground Electrode by Direct Air Dieletric Barrieer Discharge Plasma

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O5P27 Preparation of Nickel Nitride Thin Films by Plasma Deposition Process

¹Tamiko Ohshima, ²Kazunori Ichikawa, ¹Hiroharu Kawasaki, ¹Masanori Shinohara, ¹Yoshihito Yagyu, ¹Takeshi Ihara and ³Yoshiaki Suda

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05P28 Effect of Adhesion and Polymerization in Aerosol-assisted Atmospheric Pressure Plasma Deposition Process

Chun-Ping Hsiao, Chu-Hao Yang, Tsung-Rong Lin, Chun-Yi Chiang,

Yun-Chien Cheng and Jong-Shinn Wu

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05P29 Effect of Substrate Bias for Removal of DLC Film by using Oxygen Plasma

¹Yuki Kondo, ¹Itaru Fujita, ¹Tsuyoshi Tanimoto, ¹Fuminori Yoda,

¹Satoshi Degai, ¹Toru Harigai, ¹Yoshiyuki Suda, ¹Hirofumi Takikawa,

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⁴Itoh Optical Industrial Co., Ltd., Japan

O5P30 Tribological Behavior and Oxidation Resistance of Cr-W-N Coatings by High Power Impulse Magnetron Sputtering ¹Li-Chun Chang, ²Yu-Zhe Zheng and ¹Hual-Wum He

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05P32 High Temperature Oxidation of WC-ZrN Thin Film

Dong-Bok Lee, Yuke Shi and Min Jung Kim

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O5P33 Deposition of HMDSZ/O₂ Plasma and Preparation of Polymer Acrylic Acid with Silver Nanoparticles on Bamboo Charcoal

¹Ying Li, ²Ju-Hui Yeh, ²Ko-Shao Chen and Ming-Tse Lin

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05P34 Chemical Solution Assisted Growth of TiO₂-ZnS Composite Rods

and their Gas-sensing Performance

Nian-Cih Xu and Yuan-Chang Liang

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O5P35 Crystal Growth and Photoconductive Characteristics of ReS₂ and ReSe₂

Zhen-Wei Liu, Lin-Zheng Guo, Ying-Sheng Huang and Kuei-Yi Lee National Taiwan University of Science and Technology, Taiwan

05P36 Rapid, Low-temperature Growth of Sub-10 nm Silica Nanowires from Solid Silicon Source and Plasma-activated Platinum Thin

Hong-Yi Lee and Jiann Shieh

Films

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05P37 Fabrication of β-Ga₂O₃ Humidity Sensor with 1-D Nanowire Structure

¹Li-Tsen Lai, ¹Tseng-Chieh Cheng, ²Yu-Ming Yeh and ²Han-Ting Hsueh

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05P38	Microwave-hydrothermal Synthesis of BiOCl/Bi ₂ WO ₆ Nanocomposites Phattranit Dumrongrojthanath, Somchai Thongtem and Titipun Thongtem Chiang Mai University, Thailand
05P39	Synthesis, Characterization and Photocatalytic Performance of BiOCl/BiPO ₄ Composites under Visible Light Irradation Wachiraporn Maisang, Titipun Thongtem and Somchai Thongtem Chiang Mai University, Thailand
05P40	Effect of Microwave Power on Phase, Morphology and Photocatalysis of BiOIO ₃ Nanostructure Panudda Patiphatpanya, Somchai Thongtem and Titipun Thongtem Chiang Mai University, Thailand
05P41	CuAlO ₂ Thin Films Prepared using Atmopsheric Pressure Plasma Annealing Hong-Ying Chen and Jian-Hong Ou National Kaohsiung University of Applied Sciences, Taiwan
05P42	Fabrication of Lateral Graphene-based Bipolar Junction Transistor Lin-Zheng Guo, Wan-Ting Yang, Zhen-Wei Lui and Kuei-Yi Lee National Taiwan University of Science and Technology, Taiwan
05P43	Photoelectrochemical Performance of BiVO ₄ -based Photoanodes with A Z-scheme Ruiling Wang, Yuyu Bu, Tian Xie and Jin-Ping Ao Tokushima University, Japan
05P44	Investigation of Nano-Cu ₂ O/ZnO Heterojunction Solar Cells Fabricated by Electrochemical Deposition Leo Chau-Kuang Liau and Chin-Ming Chang Yuan Ze University, Taiwan
05P45	Change of Electric Resistance of Carbon Nanotube Filaments Formed by Gas Discharge Breakdown during those Lengthening Process Seiji Funaki, Yuuki Mizushima and Hideki Sato Mie University, Japan

05P46	Preparation of Pt/Carbon-sphere as the Cathode Catalyst of PEFC
	Kan Sakakibara and Takahiro Saida
	¹ Meijo University, Japan

DC Bias Effect on Growth of Carbon Nanowalls by Hot-wire Chemical Vapor Deposition

Takashi Itoh, Yuichi Hatakaeyama, Yasunori Iwatake, Seiji Shimabukuro, Hiroshi Sobue and Shuichi Nonomura Gifu University, Japan

O5P49 Safe, Economical and Ultra-fast-charging Secondary Batteries using Singlewalled Carbon Nanotubes

Canghao Li, Keisuke Kurimoto, Yosuke Ishii and Shinji Kawasaki Nagoya Institute of Technology, Japan

O5P50 Ar^+ Sputtering-induced Reduction Behavior of CeO_2 Nanoparticles on Al_2O_3 Substrate

Takashi Hattori and Masakuni Ozawa Nagoya University, Japan

O5P51 Preparation and Hydrogen Storage Properties of Pd-based Alloy and Composite Nanoparticles

Shoji Ando, Masakuni Ozawa, Yusuke Iinuma and Masatomo Hattori Nagoya University, Japan

O5P52 Hydrogen Absorption and Catalytic Properties of Pd-nanophase Dispersed Composites

¹Atsuhiko Masuda, ²Masakuni Ozawa, ¹Naoya Katsuragawa,

¹Masatomo Hattori and ²Shin-ichi Yamamura

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O5P53 The Comparison of Radio Frequency Difluoromethane and Methane Plasma Polymerizations in a Closed Reactor System ¹Yin-Che Huang, ²Ta-Chin Wei, ¹Yu-Shuan Liu and ¹Chun Huang

¹Yuan Ze University, Taiwan

²Chung Yuan Christian University, Taiwan

05P54 Influence of Nb Addition on Magnetic Properties of FeSiB Amorphous Films

¹Shuhei Nozue, ¹Ryoka Mimura, ¹Yuuki Takeuchi, ¹Yuji Fujiwara,

²Mutsuko Jimbo and ¹Tadashi Kobayashi

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O5P55 Change in Spatial Distribution of Platelet Al₃Ti Particles in Al-Al₃Ti Composite by Equal Channel Angular Pressing

Sarath Babu Duraisamy, Hisashi Sato, Tadachika Chiba and Yoshimi

Watanabe

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O5P56 Magnetic Properties of Thermally Annealed Few-layered Graphene Oxide

¹Ryumaru Mori, ¹Kyosuke Kimura, ¹Yuji Fujiwara, ²Mutsuko Jimbo and ¹Tadashi Kobayashi

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O5P57 Effects of Heterogeneous Nucleation Site Content on Grain Refining Performance of Al-Al_{2.7}Fe_{0.3}Ti Refiners Fabricated by Spark Plasma Sintering

Syusuke Taniai, Tadachika Chiba, Hisashi Sato and Yoshimi Watanabe

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O5P58 Aluminum Nano Dot Pattern Formation with Ni-W Nano Electroformed Mold

¹Manabu Yasui, ¹Shinichi Yasaka, ¹Satoru Kaneko, ¹Masahito Kurouchi, ²Hiroaki Ito and ³Masahiro Arai

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05P59 Microplasma-assisted Fabrication of GQD/Au Heterostructures for SERS Detection

Chih-Yi Fang and Wei-Hung Chiang

National Taiwan University of Science and Technology, Taiwan

O5P60 Influence of Fluorination on Nitrogen Adsorption of Activated Carbon Fibers

Hironori Sugiyama and Yoshiyuki Hattori

Shinshu University, Japan

O5P61 Plasma Etching Processes of a Polyethylene Terephthalate (PET) Membrane Filter for Biomedical Applications

^{1,2}Naoto Kihara, ¹Hidefumi Odaka, ²Daiki Kuboyama, ²Daisuke Onoshima, ²Hiromasa Tanaka, ²Kenji Ishikawa, ²Yoshinobu Baba and ²Masaru Hori

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O5P62 Characteristics of Porous-discharge Plasma Jet in Water and its Application of Bacterial Inactivation

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³National Fusion Research Institute, Korea

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O5P64 Antibacterial Efficacy of Airborne Bacteria using Dielectric Barrier Discharge at Atmospheric Pressure

^{1,2}Chan Hoon Ahn and ¹Jun Choi

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²Pusan National University, Korea

O5P65 Amine Plasma-polymerized Film Surface Modulate iPSC-derived Human Mesenchymal Stem Cell Adhesion and Differentiation

¹Chang-Min Lee, ²Min-Suk Kook, ³Myung-Sun Kim, ¹Min-Ju Park and

¹Byung-Hoon Kim

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³Chonnam National University Hospital, Korea

05P66 Effectiveness of Micro-scaled Grid Culture for Human Induced Pluripotent Stem Cells Stable Maintenance

¹Doo-Man Kim, ¹Ho-Tae Kim, ¹Rok-Young Kim, ²Dae-Seon Moon and ¹Byung-Hoon Kim

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O5P67 Synergistic Effect of Piperlongumine in Combination with Nonthermal Plasma on the Tretment of Gastrointestinal Cancer Cells ¹Ho Tae Kim, ²Yun Hye Jung, ³Young-Rok Shin, ¹Byung Hoon Kim and ²Young-IL Jeong

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O5P68 Combination of Photodynamic Treatment and Cold Plasma for the Treatment of Gastrointestinal Cancer Cells

¹Young-IL Jeong, ²Ho Tae Kim, ¹Hye Lim Lee, ³Min-Cheol Kim and ²Byung Hoon Kim

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05P69 Development of Ozone/UV Sterilization Method

¹Taito Iraha, ¹Yoshitake Shimabukuro, ¹Akira Yonesu and ²Nobuya Hayashi

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05P70 Hydrophobic Recovery and Growth Properties of Asian Rice Seeds (*Oryza sativa*) with Atmospheric Plasma

Miguel Ricardo A. Hilario and Christian Lorenz S. Mahinay

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O5P71 In-situ Observation of Molecular Diffusion of Supported Lipid Bilayer in Various Liquids Irradiated with Oxygen Radicals

¹Taisei Kondo, ¹Jun-Seok Oh, ²RyugoTero, ³Hiroshi Hashizume, ³Hiroki Kondo, ³Masaru Hori and ¹Masafumi Ito

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O5P72 Synthesis and Characterization of Hydroxyapatite Nano-structures by Hydrothermal Process

Da Seul Ham, Won Jeong and Hyon Chol Kang

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O5P73 Sn-doped β -Ga₂O₃ Thin Films Grown by Radio-frequency Powder Sputtering Method Ha Ram Lee, Su Yeon Cha and Hyon Chol Kang Chosun University, Korea

O5P74 Rational Design of Nanocarbons for Catalytic Reduction of 4-nitrophenol (4-NP)

¹Yu-Lun Yeh, ¹Chi Van Nguyen, ²Kevin Wu and ¹Wei-Hung Chiang

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05P76 High-temperature Oxidation of TiAlCrSiN Thin Films

Dong Bok Lee, Xiao Xiao, Yuke Shi and Min Jung Kim

Sungkyunkwan University, Korea

O5P77 Fabrication of Antireflective Si Surfaces using Slanted Plasma Etching

Yong-Seon Shin, Jun-Hyun Kim and Chang-Koo Kim Ajou University, Korea

O5P78 Characterization of Polymer Electrolyte Fuel Cell using Carbon Nanowalls for Catalyst-support-materials

¹Hiroaki Iwata, ¹Takayuki Ohta, ¹Masafumi Ito, ¹Mineo Hiramatsu,

²Hiroki Kondo and ²Masaru Hori

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²Nagoya University, Japan

O5P79 Plasma-enhanced Atomic Layer Deposition of Molybdenum Compounds Thin Films using Mo(CO)₆ with Various Plasma Gases

Jeong-Hun Choi, Seung-Won Lee, Cheol-Min Hyun, Hyo-Bae Kim and Ji-Hoon Ahn

Korea Maritime and Ocean University, Korea

O5P80 Growth Phenomena and Mechanism of MoS₂ Formed by Conventional Chemical Vapor Deposition

Cheol-Min Hyun, Jeong-Hun Choi, Seung-Won Lee, Hyo-Bae Kim and

Ji-Hoon Ahn

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O5P81 Inverted Planar Perovskite Solar Cells with Nitrogen DBD Treated Active Layer

Jui-Hsuan Tsai, I-Chun Cheng, Cheng-Che Hsu and Jian-Zhang Chen National Taiwan University, Taiwan

O5P82 Application of Atmospheric-pressure Plasma Jet Processed Reduce Graphene Oxide (rGO)-carbon Black (CB) to Quasi-solid-state Gel-electrolyte Supercapacitor

> Hung-Hua Chien, I-Chun Cheng, Cheng-Che Hsu and Jian-Zhang Chen National Taiwan University, Taiwan

05P83 Low Temperature Atmospheric Pressure Plasma-polymerized Electrochromic WTi_xO_yC_z Thin Films for Flexible Electrochromic Device

Yan-Hong Lai, Pin-Cheng Chen and Yung-Sen Lin Feng Chia University, Taiwan

New Developments of Surface Activation on Polycarbonate using Linear Dielectric Barrier Discharge

> Chou-Yuan Cheng, Ting-Hao Chen and Chun Huang Yuan Ze University, Taiwan

O5P85 Optical Emission Analysis and Contact Angle Examination of Cyclonic Atmospheric Pressure Plasma Activated Acrylonitrile Butadiene Styrene

> Ting-Hao Chen, Chou-Yuan Cheng and Chun Huang Yuan Ze University, Taiwan

O5P86 Angular Dependence of Si₃N₄ Etch Rates in C₄F₆/CH₂F₂/O₂/Ar Plasmas

Jin-Su Park, Jun-Hyun Kim and Chang-Koo Kim Ajou University, Korea

O5P87 Pressure Gradient Sputtering to Achieve High Deposition Rate for Metal Thin Film

¹Hiroki Oota, ¹Kiyomi Takahashi, ²Jun-Seok Oh, ³Kazunori Koga, ⁴Tatsuyuki Nakatani, ²Masafumi Ito, ³Masaharu Shiratani and ¹Ken Yonezawa

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O5P88 Diagnostic Study of Plasma in Solution by using Bipolar Pulsed Voltage: How Pulsed Voltage Influences the Plasma Optical Emission?

Ching-Yu Wang and Cheng-Che Hsu

National Taiwan University, Taiwan

05P89 Fabrication of Nanostructured TiO₂ by He Plasma Irradiation

¹Yudai Tomita, ¹Shin Kajita, ²Eriko Yasunaga, ³Tomoko Yoshida,

¹Noriyasu Ohno and ¹Hirohiko Tanaka

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²The University of Tokyo, Japan

³The OCU Advanced Research Institute for Natural Science and Technology, Japan

O5P90 The Design and Development of a Novel Portable Microplasma Generation Device for Detection of Metallic Ions in Aqueous Solutions

Fu-Yu Yang and Cheng-Che Hsu

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The Development of a Cellphone-based Spectrometer for

Acquisition of Plasma Optical Emission Spectroscopy to

Discrimination of Different Gas Ambient

Qi-Ming Jian, Po-Wei Yeh and Cheng-Che Hsu

National Taiwan University, Taiwan

O5P92 Fabrication of Carbon-gold Nanoparticles by Pulsed Laser

Ablation under Ethanol-pressurized CO₂

Mardiansyah Mardis, Wahyu Diono, Noriharu Takada, Hideki Kanda,

and Motonobu Goto

Nagoya University, Japan

05P93 Effect of IZO Films with Oxygen Plasma Treatment for

Electrochemiluminescence Cell Applications

Pakpoom Chansri, Somchai Arunrungrusmi and Narong Mungkung

King Mongkut's University Technology of Thonburi, Thailand

O5P94 Transparent ItiO Film Electrodes on PET by O₂ Plasma Treatment

for High Performance Flexible Electroluminescence Device

Somchai Arunrungrusmi, Pakpoom Chansri and Narong Mungkung

King Mongkut's University Technology of Thonburi, Thailand

O5P95 Synthesis of Electrochemiluminescence Device with ZnO:TiO₂ Nanoparticles Electrode

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