

P2001A Chemical kinetics simulation for atmospheric pressure air plasma^{1,2}J. Lee, ¹H. Kim, ¹H. Kwon, ²H. Lee, ¹I. Won¹Pohang University of Science and Technology, Korea²Medipl Corporation, Korea**P2002A Atomic core structures associated to the dislocation with the burgers vectors [1100] and line direction [0001] in the wurtzite lattice**¹A. Béré, ²P. Ruterana, ¹J. Koulidjati¹Université de Ouagadougou, Burkina Faso²Centre de Recherche sur les Ions, les Matériaux et la Photonique UMR6252, ENSICAEN, France**P2003A Ab-initio calculation of electronic density of states of amorphous carbon**¹A. Ito, ¹A. Takayama, ²N. Ohno, ^{1,2}H. Nakamura¹National Institute for Fusion Science, Japan²Nagoya University, Japan**P2004A Simulation of effective production of VHF hydrogen plasma using a balanced power feeding method**¹K. Ogiwara, ²W. Chen, ²K. Uchino, ²Y. Kawai¹Kyushu University, Japan²Kyushu University, Japan**P2005A Thermal flow characteristics of power law model in the hybrid type microchannel applied to electrokinetics**H. Seo, Y. Kim

Sungkyunkwan University, Korea

P2006A Preparation and characterizations of a Ru(II) complex as nitrile hydration catalyst**Withdrawn** H. Awano, T. Wada, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda

Nagoya Institute of Technology, Japan

P2007A Time-dependent calculation for electron impact excitation of atomic hydrogenK. Nakane, K. Sawada

Shinshu University, Japan

P2008A **First principles investigation on noble gas embedded materials for nuclear fusion device**

¹A. Takayama, ^{1,2}A. Ito, ^{1,2}H. Nakamura

¹National Institute for Fusion Science, Japan

²Nagoya University, Japan

P2009A **Structural characteristics of Si substrate treated in Ar/O₂ atmosphere using microwave plasma chemical vapor deposition system**

C. Su, C. Huang

National Taipei University of Technology, Taiwan

P2010A **A simplified unified model for free-burning arcs in argon**

J. Lee, H. Jeon

Gangneung-Wonju National University, Korea

P2011A **Development of parallel fluid modeling considering electromagnetic wave effect for plasma source driven by high-frequency power source**

C. Hung, B. Gu, C. Chiou, K. Lin, S. Wang, J. Wu

National Chiao Tung University, Taiwan

P2012A **Study of plasma enhanced chemical-vapor deposition of SiO₂ in a SiH₄/O₂ inductively coupled plasma**

L. Tong

Keisoku Engineering System Co. Ltd., Japan

P2013A **FDTD simulation on transmission of millimeter wave through miter bend**

¹N. Kashima, ^{1,2}H. Nakamura, ²A. Takayama, ³Y. Tamura, ^{1,2}S. Kubo

¹Nagoya University, Japan

²National Institute for Fusion Science, Japan

³Konan University, Japan

P2014A **Electromagnetic wave propagation analysis in corrugated waveguide using meshless time domain method**

¹Y. Fujita, ¹S. Ikuno, ²H. Nakamura

¹Tokyo University of Technorogy, Japan

²National Institute for Fusion Science, Japan

P2015A **Numerical evaluation of nonequilibrium plasma flow in 1kW class arc thruster**

¹M. Yu, ²Y. Takahashi, ¹K. Abe, ¹H. Kihara

¹Kyushu University, Japan

²Hokkaido University, Japan

P2016A **Highly-crystallized Ge:H film growth from GeH₄ very high frequency inductively-coupled plasma -Crystalline nucleation initiated by Ni-nanodots-**

¹K. Makihara, ¹J. Gao, ¹D. Takeuchi, ²K. Sakaike, ²S. Hayashi, ²M. Ikeda, ²S. Higashi, ¹S. Miyazaki

¹Nagoya University, Japan

²Hiroshima University, Japan

P2017A **ICP-enhanced reactive sputtering with multiple inner type low-inductance antenna modules for large-area formation of thin film devices**

¹Y. Setsuhara, ¹K. Takenaka, ²A. Ebe

¹Osaka University, Japan

²EMD Corporation, Japan

P2018A **Development of compact microwave plasma source and its application to Si film deposition**

¹S. Kondo, ¹S. Nakano, ^{1,2}H. Toyoda

¹Nagoya University, Japan

²PLANT, Japan

P2019A **Research for axial uniformity of diamond-like carbon film deposited along metal rod by using microwave-sheath voltage combination plasma (MVP)**

¹X. Deng, ¹Y. Takaoka, ¹H. Kousaka, ¹N. Umehara, ²K. Shinoda, ²H. Kanada, ²K. Taki

¹Nagoya University, Japan

²Brother Industries, Ltd., Japan

P2020A **Construction of atmospheric pressure mist chemical vapor deposition technology for the all-printed electronic technology**

¹K. Sun, ¹K. Takeda, ¹S. Tajima, ¹H. Kondo, ¹K. Ishikawa, ¹M. Sekine, ¹M. Hori, ²H. Itoh

¹Nagoya University, Japan

²Tokyo Electron Ltd., Japan

P2021A **High temperature characteristics of Schottky diodes using diamond semiconductors**

K. Ueda, K. Kawamoto, T. Soumiya, M. Nishiwaki, H. Asano

Nagoya University, Japan

P2022A **The effect of plasma-on time on the axial uniformity of film thickness in internal DLC coating with microwaves**

R. Matsui, H. Kousaka, N. Umehara

Nagoya University, Japan

P2023A **Improving a-Si/c-Si heterojunction using micro-hydrogenation**

C. Lin, Y. Chen

Tatung University, Taiwan

P2024A **Plasma diagnostics and characterizations of Al-doped ZnO films deposited with low temperature sputtering process**

Y. Choi, B. Shim, H. Kim, J. Han

Sungkyunkwan University, Korea

P2025A **Formation of reliable SiO₂ films by combination of thermal and plasma oxidation processes**

¹R. Hasunuma, ²Y. Kabe, ¹K. Yamabe

¹University of Tsukuba, Japan

²Tokyo Electron AT Ltd., Japan

P2026A **Relation between gaseous radicals and μc-Si film property in SiH₄/H₂ plasma CVD**

A. Fukushima, Y. Lu, Y. Abe, K. Takeda, H. Kondo, K. Ishikawa, M. Sekine, M. Hori

Nagoya University, Japan

P2027A **Effect of substrate cooling on the mechanical properties of Si-containing hydrogenated carbon nitride film**

¹K. Kitazume, ¹H. Kousaka, ¹T. Tokoroyama, ¹N. Umehara, ²Y. Fuwa, ²K. Manabe

¹Nagoya University, Japan

²Toyota Motor Corporation, Japan

P2028A **Atomic composition of DLC film coated at over 100 um/h by using microwave-excited high-density near plasma**

¹Y. Takaoka, ¹H. Kousaka, ²M. Kawaguchi, ¹N. Umehara, ³K. Shinoda, ³H. Kanada, ³K. Taki

¹Nagoya University, Japan

²Tokyo Metropolitan Industrial Technology Research Institute, Japan

³Brother Industries, Ltd., Japan

P2029A **Polarization control of c-axis normal ScAlN film by ion beam irradiation**

¹M. Suzuki, ¹T. Yanagitani, ²H. Odagawa

¹Nagoya Institute of Technology, Japan

²Kumamoto National College of Technology, Japan

P2030A **Relationship between coating density and mechanical properties of DLC coatings produced by different coating deposition processes**

Withdrawn

¹T. Horiuchi, ¹S. Kaneko, ¹C. Kato, ¹M. Kano, ²M. Kumagai, ³T. Suzuki

¹Kanagawa Industrial Technology Center, Japan

²Fuji WPC Co., Ltd., Japan

³Keio University, Japan

P2031A **Onset of discharge instability at patterned conductive regions in pulsed-plasmas under near atmospheric pressures**

¹Y. Inayoshi, ¹H. Fukidome, ²S. Nakajima, ²T. Uehara, ³Y. Toyoshima, ¹M. Suemitsu

¹Tohoku University, Japan

²Sekisui Chemical Co., Ltd., Japan

³Energy Technology Research Institute, AIST, Japan

P2032A **Surface structure control of ZnO films by plasma-assisted Mist-CVD**

K. Takenaka, Y. Setsuhara

Osaka University, Japan

P2033A **Investigation of SiO₂/SiO_X/SiO_XN_Y stack for charge storage application in nonvolatile memory**

Withdrawn

W. Choi, J. Choi, J. Kim, S. Bong, J. Yi

Sungkyunkwan University, Korea

P2034A **Synthesis of ZnO thin films with different gas flow rate ratio by plasma enhanced chemical vapor deposition**

D. Wei, C. Chao, M. Chen

National Taipei University of Technology, Taiwan

P2035A **Heardening of SACM645 steel using a pulsed discharge atmospheric pressure plasma nitriding**

¹M. Hayakawa, ¹M. Ito, ¹S. Takashima, ²H. Matsuo, ²M. Goto

¹PLACIA, Nagoya Industries Promotion Corporation, Japan

²Nakanihon-Ro Kogyo Co., Ltd., Japan

P2036A **Hydrogen radical injection plasma deposition of (110)-preferentially oriented microcrystalline silicon films**

L. Ya, A. Fukushima, Y. Abe, Y. Kim, K. Takeda, K. Ishikawa, H. Kondo, M. Sekine, M. Hori

Nagoya University, Japan

P2037A **Tribological prperties of gas tunnel type plasma sprayed TiN coatings**

¹A. Kobayashi, ¹S. Yugesarwan, ²Y. Ando

¹Osaka University, Japan

²Ashikaga Institute of Technology, Japan

P2038A **A Zn-In-Sn-O UV photodetectors with Au Schottky contacts**

Withdrawn

T. Chang, C. Chiu, S. Chang

National Cheng Kung University, Taiwan

P2039A **Dependence of performance of p-i-n a-Si:H solar cells using stable a-Si:H films on distance between discahrges and substrate**

¹K. Hatozaki, ¹Y. Hashimoto, ¹D. Yamashita, ¹H. Seo, ¹G. Uchida, ^{1,2}N. Itagaki, ¹K. Koga, ¹M. Shiratani

¹Kyushu University, Japan

²PRESTO, Japan

P2040A **Study on properties of ZnO thin films deposited in low temperature facing targets magnetron sputtering (FTS) system with H₂ and O₂ flow rate changes**

^{1,2}H. Kim, ^{1,2}S. Jin, ^{1,2}L. Wen, ^{1,2}Y. Choi, ^{1,2}I. Choi, ^{2,3}M. Hori, ^{1,2}J. Han

¹Sungkyunkwan University, Korea

²Sungkyunkwan University, Korea

³Nagoya University, Japan

P2041A **Plasma treatment of nanocrystalline diamond films for biocoating applications**

J. Yang, K. Teii

Kyushu University, Japan

P2042A **Light scattering measurement for fabrication thin films by sputtering deposition method using powder target**

H. Kawasaki, D. Taniyama, T. Ohshima, Y. Yagyu, T. Ihara, Y. Suda

Sasebo National College of Technology, Japan

P2043A **Synthesis of ultrananocrystalline diamond film by CVD using a chemical precursor**

¹R. Tiwari, ²S. Sahoo, ²L. Chang, ¹M. Yoshimura

¹Toyota Technological Institute, Japan

²National Chiao Tung University, Taiwan

P2044A **Effect of crystallinity by post heat treatment on TFT characteristics in nanocrystalline silicon TFT**

W. Choi, J. Choi, J. Kim, S. Bong, J. Yi

Sungkyunkwan University, Korea

P2045A **Metal containing PTFE films by RF and DC sputtering simultaneously with rotation**

¹Y. Song, ²J. Kim

¹Korea Institute of Industrial Technology (KITECH), Korea

²Hanyang University, Korea

P2046A **The effect of hydrogen on microstructure of Si thin films synthesized by ICP-assisted magnetron sputtering**

K. Shin, I. Choi, Y. Choi, J. Han

Sungkyunkwan University., Korea

- P2047A **Deposition of highly conducting Cu thin film on polyimide substrate using RF-driven atmospheric pressure plasma jet in nitrogen atmosphere**
^{1,2}P. Zhao, ³W. Zheng, ²Y. Meng, ¹M. Nagatsu
¹Shizuoka University, Japan
²Chinese Academy of Science, China
³Yazaki Corporation, Japan
- P2048A **The effect of duty cycle on depositing CrN thin films by high power impulse magnetron sputtering process**
^{1,2}W. Wu, ¹B. Wu, ¹P. Chen, ^{1,2}C. Chang, ^{1,2}D. Wang
¹MingDao University, Taiwan
²MingDao University, Taiwan
- P2049A **Development of a facing-target sputtering device with an extraordinary strong magnetic field**
T. Shimizu, K. Nakamura, H. Ikuta
Nagoya University, Japan
- P2051A **Effect of hydrogen/argon annealing on the properties of Al-doped ZnO films prepared by low temperature magnetic controlled DC sputtering**
¹N. Shih, ¹C. Lin, ²C. Kung
¹Hsiuping University of Science and Technology, Taiwan
²National Chung-Hsing University, Taiwan
- P2052A **Formation of DLC films by pulsed plasma using atmospheric pressure surface discharge**
H. Hamada, K. Oue, S. Yasui
Nagoya Institute of Technology, Japan
- P2053A **Surface modification and degradation properties of anti-sticking layer using fluorocabon-based plasma for NIL (nanoinprint lithography) process**
¹Y. Ham, ²D. Shutov, ¹J. Son, ¹H. Jang, ¹K. Kwon
¹Korea University, Korea
²Ivanovo State University of Chemistry and Technology, Russia
- P2054A **Improving mechanical propertis of carbon coatings onto injection mold steel**
¹K. Lee, ¹J. Jeong, ²Y. Lee, ²H. Lee, ³D. Choi, ³D. Son
¹Research Institute of Industrial Science & Technology, Korea
²HanGuk Mold, Korea
³Dongkook Ind. Co., Ltd, Korea

P2055A **Surface passivation of SiN_(Si-rich)/SiN_(N-rich) stacks with the firing stability properties for n-type crystalline silicon solar cells**

¹J. Choi, ¹V. Dao, ¹W. Choi, ²N. Balaji, ¹J. Kim, ¹S. Bong, ¹J. Yi

¹Sungkyunkwan University, Korea

²Sungkyunkwan University, Korea

P2056A **Production of carbon stripper foils by magnetron-sputter plasma-deposition**

¹S. Kato, ²M. Yoshimoto, ³H. Yamaoka, ¹M. Wada

¹Doshisha University, Japan

²J-PARC Center, Japan Atomic Energy Agency, Japan

³Harima Institute, RIKEN, Japan

P2057A **Influence of annealing treatment on optical properties of Rf-Magnetron sputtered Nd(Co_{1/2}Ti_{1/2})O₃ thin films on ITO/Glass Substrate**

C. Hsu, Y. He

National United University, Taiwan

P2058A **Properties of titanium nitride films prepared by oblique angle deposition**

J. Jeong, J. Yang, H. Park, J. Jung, M. Song

Research Institute of Industrial Science and Technology, Korea

P2059A **A study on the characteristic of polymerized thin films by PECVD method**

S. Cho, H. Seo, J. Boo

Sungkyunkwan University, Korea

P2060A **Deposition of amorphous carbon films by inductively coupled discharges containing hydrocarbon gases**

T. Kimura, R. Nishimura, Y. Sugino

Nagoya Institute of Technology, Japan

P2061A **Ion bombardment effects on internal stress of sputtered thin films**

¹A. Niij, ¹M. Amano, ²A. Kohri, ²Y. Shinohara, ²Y. Matsumura

¹Tokai University, Japan

²Tokai University, Japan

P2062A **Plasma enhanced atomic layer deposition of AlN thin films: A comparison between remote and direct plasma processes for obtaining crystalline films**

A. Perros, S. Ali, J. Mäkinen, H. Lipsanen

Aalto University, Finland

P2063A **Growth of carbon nanoflakes by sputtering on stainless steel for field emission application**

Withdrawn W. Shih, S. Chang

Tatung University, Taiwan

P2064A **The role of system pressure in the fluorocarbon plasma polymerization using C₄F₈ in capacitively couple mode discharge**

Y. Wang, C. Tsai, C. Huang

Yuan Ze University, Taiwan

P2065A **Properties of aluminum films prepared by oblique angle deposition**

H. Park, J. Yang, J. Jung, M. Song, J. Jeong

Research Institute of Industrial Science and Technology, Korea

P2066A **High-k gate dielectric layer deposited on silicon wafer to improve permittivity**

H. Seo, S. Cho, S. Nam, K. Hwang, W. Jung, J. Boo

Sungkyunkwan University, Korea

P2067A **Synthesis and characterization of InTaO₄ films by alternative- and co- deposition of In₂O₃ and Ta₂O₅**

Withdrawn J. Hsieh, H. Liang, S. Liu, H. Wu

Ming Chi University of Technology, Taiwan

P2068A **Properties of diamond like carbon (DLC) on Ti buffer layer prepared on Si(001) substrate**

¹S. Kaneko, ¹T. Ito, ²K. Ikenaga, ³S. Yasuhara, ³K. Mihirogi, ⁴M. Kobayashi, ⁵M. Kumagai, ⁵E. Shimodaira, ¹T. Horiuchi, ¹S. Takagi, ⁶R. Sudo

¹Kanagawa Industrial Technology Center, Japan

²Japan Electronics Technology, Japan

³Japan Advanced Chemicals, Japan

⁴Kobasei, Japan

⁵Fuji WPC, Japan

⁶Sagamihara Surface Lab., Sagamihara Incubation Center, Japan

P2069A **Annealing effect on the microstructure and optical characteristics of Mn, Si co-doped ZnO thin film sputtered on quartz glass**

¹K. Peng, ¹H. Kao, ²S. Liu, ¹J. Chen, ³C. Lee

¹Ming Chi University of Technology, Taiwan

²National Taiwan Normal University, Taiwan

³National Taipei University of Technology, Taiwan

P2070A **Properties of WO_{3-x} electrochromic thin film prepared by reactive sputtering with various post annealing temperature**

M. Kim, H. Choi, K. Kim

Gachon University, Korea

P2071A **Annealing effect on the microstructure and optical characterization of Zn_2SiO_4 thin film sputtered on quartz glass**

¹K. Peng, ¹H. Kao, ²S. Liu, ³K. Tsai, ⁴J. Lin

¹Ming chi University of Technology, Taiwan

²National Taiwan Normal University, Taiwan

³St. Mary's Nursing and Management College, Taiwan

⁴National Central University, Taiwan

P2072A **An AZO thin film transparent antenna for ISM bands applications**

Withdrawn

¹S. Li, ²I. Tang, ³C. Li, ¹C. Yao

¹National University of Tainan, Taiwan

²National University of Tainan, Taiwan

³Nation Taiwan Ocean University, Taiwan

P2073A **A ITO transparent Antennas for WLAN 2.4/5.2/5.8 GHz bands applications**

Withdrawn

S. Li, I. Tang, S. Shei, S. Wang

National University of Tainan, Taiwan

P2074A **Effects of excess energy in ion-plating process on characteristics of Fe-IIIB alloy thin films**

¹M. Amano, ¹Y. Ito, ²Y. Ezaki, ²K. Sutrisna, ²Y. Matsumura

¹Tokai University, Japan

²Tokai University, Japan

P2075A **Study on precursor adsorption and reaction within SiO_2 growth cycle of low temperature plasma-enhanced atomic layer deposition using in-situ ATR-FTIR**

¹Y. Lu, ²A. Kobayashi, ¹Y. Kim, ¹H. Kondo, ¹K. Ishikawa, ¹M. Sekine, ¹M. Hori

¹Nagoya University, Japan

²ASM, Japan

P2076A **Spatio-temporal structure of growth of nano-particles with/without amplitude modulation in reactive plasmas**

¹K. Kamataki, ²Y. Morita, ²K. Koga, ²G. Uchida, ^{2,3}N. Itagaki, ²H. Seo, ²M. Shiratani

¹Kyushu University, Japan

²Kyushu University, Japan

³Presto, Japan Science and Technology Agency, Japan

- P4026A **Impact of control gate depth on program efficiency in advanced NAND flash device**
¹C. Yan, ¹J. Chen, ²Y. Lee, ²W. Huang, ²M. Huang, ²C. Chen, ²Y. Lin, ²H. Chen
¹National Cheng Kung University, Taiwan
²Powerchip Technology Corp., Taiwan
- P2077C **Effect of boron doping on crystalline structures and electrical properties of amorphous carbon films grown by radical-injection plasma-enhanced chemical vapor deposition**
¹J. Kuki, ¹L. Yu, ¹H. Kondo, ²K. Ishikawa, ^{1,2}M. Sekine, ^{1,2}M. Hori
¹Nagoya University, Japan
²Nagoya University, Japan
- P2078C **New aproach for nano fablication on locally distorted Si with hydrogen implantation**
H. Iwata, M. Takagi, Y. Tokuda
Aichi Institute of Technology, Japan
- P2079C **Development of a high sensitive microbe sensor using artificial siderophore-modified Au substrate and nanoparticle**
T. Murase, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
Nagoya Institute of Technology, Japan
- P2080C **Property of Ni-W mold after multiple thermal imprint**
¹M. Yasui, ¹S. Kaneko, ²M. Takahashi, ³H. Ito, ³M. Arai, ¹Y. Hirabayashi, ¹T. Ozawa, ²R. Maeda
¹Kanagawa Industrial Technology Center, Japan
²National Institute of Advanced Industrial Science and Technology, Japan
³Shinshu University, Japan
- P2081C **Nanostructurization of titanium exposed to helium plasmas and its photo-catalytic property**
¹D. Kitaoka, ²S. Kajita, ²T. Yoshida, ¹N. Ohno, ³N. Yoshida
¹Nagoya University, Japan
²Nagoya University, Japan
³Kyushu University, Japan
- P2082C **The role of plasma processing of ZnO for amino groups functionalization**
^{1,2}M. Ciolan, ³I. Motrescu, ²D. Luca, ¹M. Nagatsu
¹Shizuoka University, Japan
²Alexandru Ioan Cuza University, Romania
³Shizuoka University, Japan

P2083C **Sputtering and surface re-organization of fine-grain graphite under high flux nitrogen plasma bombardment**

Withdrawn

¹K. Bystrov, ²L. Marot, ³C. Arnas, ¹T. Morgan, ¹G. Temmerman

¹Dutch Institute for Fundamental Energy Research, The Netherlands

²University of Basel, Switzerland

³CNRS/Aix-Marseille Universite, France

P2084C **Formation of nanostructures on DLC surface by O₂ plasma etching after depositing small amount of metal**

¹K. Iwasa, ¹T. Harigai, ^{1,2}H. Furuta, ^{1,2}A. Hatta

¹Kochi University of Technology, Japan

²Kochi University of Technology, Japan

P2085C **Surface wettability of polymer film with hydrophilic and hydrophobic phases**

Y. Torii, S. Shibagaki, S. Takahashi, A. Takeno, M. Miwa

Gifu University, Japan

P2086C **Hybrid RF-DC plasma process for low temperature nitriding of metal and alloy**

¹B. Paosawatyanyong, ²J. Pongsopa, ³W. Bhanthumnavin

¹Chulalongkorn University, Thailand

²Commission on Higher Education, Thailand

³Chulalongkorn University, Thailand

P2087C **Homogeneous alignment of twisted nematic liquid crystals on molybdenum trioxide thin films for liquid crystal devices**

Withdrawn

H. Park, D. Seo

Yonsei University, Korea

P2088C **Plasma-initiated graft copolymerization of phosphorus flame retardant onto silk**

¹P. Jermsutjarit, ²B. Paosawatyanyong, ³W. Bhanthumnavin

¹Chulalongkorn University, Thailand

²Chulalongkorn University, Thailand

³Chulalongkorn University, Thailand

P2089C **GaN surface modification by atmospheric pressure non-thermal microplasma**

¹Y. Noma, ¹S. Kaneta, ¹M. Blajan, ²S. Naritsuka, ¹K. Shimizu

¹Shizuoka University, Japan

²Meijo University, Japan

P2090C **The SiOxCyHz hydrophobic film with chemical and mechanical properties using PECVD by controlling the plasma process**

J. Lee, S. Jin, Y. Choi, I. Choi, J. Han

Sungkyunkwan University, Korea

P2091C **A self-assembled monolayer of an ionic liquid with terminal olefins encapsulating diiron complexes for O₂-activation**

J. Nishino, T. Kitagawa, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda

Nagoya Institute of Technology, Japan

P2092C **Rapid and low-temperature nitridation of austenitic stainless steel using electron beam excited plasma (EBEP)**

¹K. Yamakawa, ¹H. Yamamoto, ¹S. Takahashi, ¹S. Den, ²S. Takashima, ³M. Hori

¹Katagiri Engineering Co., Ltd., Japan

²Nagoya Industries Promotion Corporation, Japan

³Nagoya University, Japan

P2093C **Comparative study on the plasma surface nanotexturing of polypropylene, polystyrene, polycarbonate, PMMA, and PET films**

T. Wei, P. Chen, P. Chung

Chung-Yuan University, Taiwan

P2094C **Ion-beam alignment of amorphous Al₂O₃ materials for liquid crystal alignment**

Withdrawn

H. Jeong, H. Lee, H. Park, D. Seo

Yonsei University, Korea

P2095C **Tailoring surface properties of polymeric separators for lithium-ion batteries by 13.56 MHz RF plasma glow discharge**

C. Liang, R. Juang, C. Tsai, C. Huang

Yuan Ze University, Taiwan

P2096C **Magnesium oxide coating on magnesium alloy using anodizing in silicate solution and its corrosion characteristics**

K. Nishinaka, M. Okido

Nagoya University, Japan

P2097C **Synthesis of a Fe(III)-N2O2 type complex with high NO selectivity and its modification on Au electrode**

M. Ishikawa, T. Suwabe, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda

Nagoya Institute of technology, Japan

P2098C **Development of a DSSC based on a the Cu(I) complex dye with a triallylamine derivative**

Y. Kawai, T. Inomata, Y. Wasada, Y. Funahashi, T. Ozawa, H. Masuda
Nagoya Institute of Technology, Japan

P2099C **Wettability of plasma polymerized membranes prepared from moisture states**

¹R. Kawamura, ^{1,4}D. Ishii, ^{2,4}T. Hariyama, ^{3,4}M. Shimomura

¹Nagoya Institute of Technology, Japan

²Hamamatsu University School of Medicine, Japan

³Tohoku University, Japan

⁴JST-CREST, Japan

P2100C **Surface modification of stainless steel with Ti-Si-C thin films by magnetron sputtering using elemental targets at lower preparation temperatures**

T. Sonoda, S. Nakao, M. Ikeyama
National Institute of AIST, Japan

P2101C **Oxidation of CrAlCuN thin films between 800 and 1000 °C in air**

Withdrawn S. Won, Y. Hwang, D. Lee
Sungkyunkwan University, Korea

P2102C **Enhancement of efficiency for organic light-emitting devices utilizing self-assembled monolayers**

¹K. Kim, ²Y. Jeon, ²K. Lee, ³H. Seo, ³J. Noh, ^{1,2}T. Kim

¹Hanyang University, Korea

²Hanyang University, Korea

³Hanyang University, Korea

P2103C **Novel fabrication of self-assembled phospholipid layer on hydrophobic polymer surface by plasma-assisted method**

¹S. Kondo, ¹M. Suzuki, ¹Y. Sasai, ²Y. Yamauchi, ³M. Kuzuya

¹Gifu Pharmaceutical University, Japan

²Matsuyama University, Japan

³Chubu Gakuin University, Japan

P2104C **Mn-doped Zn₂SiO₄/Ag nano-islands for green fluorescence thin film enhanced by surface plasmon effect**

¹K. Peng, ¹Y. Lin, ²S. Liu, ¹T. Chen, ³C. Lee

¹Ming Chi University of Technology, Taiwan

²National Taiwan Normal University, Taiwan

³National Taipei University of Technology, Taiwan

P2105C **Enhancement of plastic deformation resistance and tribological behavior in nanocomposite CrAlSiN coatings by Si addition**

¹H. Chen, ¹Y. Chan, ¹J. Duh, ^{2,3}J. Lee

¹National Tsing-Hua University, Taiwan

²Ming Chi University of Technology, Taiwan

³Mingchi University of Technology, Taiwan

P2106C **A study of surface properties on lithium manganese oxide applying inductively coupled plasma spectrometry**

¹M. Kong, ¹H. Yoon, ²K. Chung, ²J. Ryu

¹Korea Basic Science Institute, Korea

²Korea Institute of Geoscience and Mineral Resources, Korea

P2107C **Surface hardening of TWIP steel by shot peening process**

^{1,2}K. Cho, ³K. Song, ³S. Oh, ²Y. Lee, ¹W. Lee

¹Korea Institute of Industrial Technology, Korea

²Yonsei University, Korea

³Pohang University of Science and Technology, Korea

P2108C **The electrochemical and cavitation characteristics of materials coated with Al₂O₃-3%TiO₂ by atmospheric pressure plasma**

S. Kim, Y. Woo

Mokpo National Maritime University, Korea

P2109C **Surface modification study of lithium manganese oxide by SEM and inductively coupled plasma spectrometry**

¹B. Yoon, ¹M. Kong, ²K. Chung, ¹H. Yoon

¹Korea Basic Science Institute, Korea

²Korea Institute of Geoscience and Mineral Resources, Korea

P2110C **Cavitation behavior of MCrAlY and Ceramic materials after atmospheric pressure plasma coating**

Y. Woo, M. Han, S. Jang, S. Kim

Mokpo National Maritime University, Korea

P2111C **The characteristics of CoNiCrAlY and ZrO₂-Y₂O₃ coating layers using microcapillary electrochemical dropletcell**

M. Han, J. Lee, Y. Woo, S. Jang, S. Kim

Mokpo National Maritime University, Korea

P2112C **Investigation on the durability enhancement in seawater of ALBC3 alloy by atmospheric pressure plasma coating technology**

¹S. Kim, ²J. Park, ³S. Kim

¹Mokpo National Maritime University, Korea

²Korean Register of Shipping, Korea

³Seoul National University of Science & Technology, Korea

P2113C **Non-thermal atmospheric pressure nitrogen plasma treatment of epoxy resin-based fiber post for improvement of adhesion of core resin**

Withdrawn

^{1,2}H. Kim, ²J. Kwon, ³E. Choi, ¹Y. Lee, ^{1,2}K. Kim, ^{1,2}K. Kim

¹Yonsei University, Korea

²Yonsei University, Korea

³Kwangwoon University, Korea