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R. Sato, H. Asano, S. Kumagai, M. Sasaki
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- P1002A **Plasma transition caused by change of gas using multiturn internal RF antenna**
¹T. Yamauchi, ²T. Hamajima, ¹S. Kobayashi, ²Y. Kanno, ¹T. Hiruta
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- P1003A **Comparative studies on two different types of atmospheric pressure dielectric barrier discharge plasma generators using different plasma-working gases**
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- P1004A **Variations of the equivalent impedance of a radio-frequency atmospheric glow discharge based on the measurement of the reflection coefficient in the circuit**
¹H. Li, ^{1,2}D. Yan, ¹N. Ge, ²F. Jin, ¹Q. Nie, ¹C. Bao
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- P1006A **Effect of balanced power on plasma parameters in inductively coupled plasma**
H. Kim, I. Choi, C. Chung
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- P1007A **Microwave volume plasma ignition in ambient air**
A. Pipa, M. Andrasch, K. Rackow, J. Ehlbeck, K. Weltmann
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- P1008A **Research on mixed gas plasma generated by 915 MHz surface wave plasma source with cavity-slot type launcher and its application**
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- P1009A **Development of neutral beam source using electron beam excited plasma**
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- P1010A **Surface wave plasma generated by cylindrical teflon waveguide**
 R. Liang, X. Chang, Z. Wu, Q. Ou, Z. Li, L. He, F. Liu, Z. He, H. Gao, W. Cheng
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- P1011A **3D-integrated micro solution plasma using a gas-liquid mixed phase medium**
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- P1012A **Transparent ultra-high moisture barrier coating on PET substrate**
¹C. Chen, ¹I. Lin, ¹Y. Guo, ¹C. Liu, ²F. Hong
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- P1013A **Transparent high moisture barrier films by lamination process**
¹I. Lin, ¹C. Chen, ¹Y. Guo, ¹C. Liu, ²F. Hong
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- P1014A **In-situ observation of optical fluorescence of GaN thin film induced by photoluminescence technique in plasma condition**
¹M. Chen, ¹K. Nakamura, ¹Y. Nakano, ¹H. Sugai
¹Chubu University, Japan
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- P1015A **The effect of double-anode glow discharge plasma on the surface properties of poly (ethylene terephthalate) (PET) film**
 Y. Guo, H. Zhang, K. Ding, X. Huang, J. Shi, J. Zhang
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- P1016A **Nano-surface analysis of plasma-polymer interactions for fabrications of flexible electronics with inorganic/organic hybrid structures**
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- P1017A **FEM analysis of CrN-punch strength using ANSYS software**
- ¹H. Sato, ²T. Miura, ²H. Furuichi
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²Cybernet Systems Co., Ltd., Japan
- P1018A **Therapeutic effect of non-thermal atmospheric plasma on tumor in vivo**
- ¹I. Yajima, ¹K. Nakagawa, ²H. Kondo, ²K. Takeda, ²M. Hori, ³H. Kano, ¹M. Kato
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- P1019A **Physical features of an atmospheric helium glow discharge and its application for gene mutation breeding of microbes**
- H. Li, Z. Wang, N. Ge, P. Le, L. Jin, M. Fang, C. Zhang, P. Jiang, X. Xing, C. Bao
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- P1020A **Bointerfacial property of plasma-treated single walled carbon nanotube film electrodes for electrochemical biosensors**
- J. Kim, J. Lee, J. Jin, N. Min
Korea University, Korea
- P1021A **Terahertz time-domain spectroscopy for penicillium digitatum sterilization using non-equilibrium atmospheric pressure plasma**
- ¹T. Hiraoka, ²N. Ebizuka, ^{1,2}K. Takeda, ³T. Ohta, ^{1,2}K. Ishikawa, ³M. Ito, ¹K. Kawase, ^{1,2}M. Sekine, ^{1,2}M. Hori
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- P1022A **Measurements of nitric oxide generated from dry yeast irradiated by dielectric barrier discharge plasmas**
- ¹S. Kitazaki, ¹K. Koga, ¹M. Shiratani, ²N. Hayashi
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- P1023A **Real time electron spin resonance observation of *penicillium digitatum* spores interacted with plasmas**
¹K. Ishikawa, ¹S. Iseki, ²H. Hashizume, ²T. Ohta, ²M. Ito, ³H. Kano, ¹K. Takeda, ¹H. Kondo, ¹M. Sekine, ¹M. Hori
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- P1024A **Application of microplasma for sterilization and plasma medicine**
K. Shimizu, S. Tatematsu, H. Fukunaga, M. Blajan
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- P1025A **The effect of gas plasma on influenza virus**
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²Saga University, Japan
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⁴Chuo University, Japan
- P1026A **The effect of gas plasma on *Salmonella***
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- P1027A **Secondary structure change of bovine serum albumin induced by gas plasma**
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- P1028A **Selective killing of ovarian cancer cells through induction of apoptosis by a nonequilibrium atmospheric pressure plasma**
¹H. Tanaka, ¹S. Iseki, ¹K. Nakamura, ¹M. Hayashi, ¹H. Kondo, ¹H. Kajiyama, ²H. Kano, ¹F. Kikkawa, ¹M. Hori
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- P1029A **Effect of plasma properties and set-up geometry on medical needles finishing with ion plasma sputtering method**
¹A. Remnev, ¹K. Shalnov, ¹K. Uemura, ²K. Nagato
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- P1030A **Internal sterilization of a narrow tube by ECR plasma**
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- P1031A **Biocompatibility of plasma polymerized magnesium surface**
K. Lee, Y. Ko, B. Kim
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- P1032A **Immobilization of hyaluronic acid (HA) for MC3T3-E1 cell proliferation attachment proliferation on polycaprolactone (PCL) 3D scaffold**
¹B. Kim, ¹Y. Hwang, ²S. Jung, ¹K. Lee
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²Sunchon University, Korea
- P1034A **Experimental studies on the destruction of ethylene oxide using an atmospheric-pressure dielectric barrier discharge**
¹H. Li, ^{1,2}K. Chaker, ¹W. Xing, ¹G. Chen, ¹N. Ge, ²F. Jin, ¹C. Bao
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- P1035A **Optimization of polysulfide electrolyte for higher performance of Si quantum dot-sensitized solar cells**
¹G. Uchida, ¹Y. Wang, ¹M. Sato, ¹H. Seo, ^{1,2}N. Itagaki, ¹K. Koga, ¹M. Shiratani
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- P1036A **Hydrogen production from lignin by irradiation of glow discharge plasma**
T. Sasaki, M. Saito
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- P1037A **Organic chemical conversion induced pulse discharge plasma under high pressure conditions**
¹W. Diono, ¹K. Nagafuchi, ¹A. Nagira, ¹T. Kiyan, ¹M. Sasaki, ¹H. Akiyama, ²M. Goto
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- P1039A **Formation of porous metallic nanocone array by helium plasma irradiation**
¹S. Kajita, ²N. Yoshida, ²R. Yoshihara, ³N. Ohno
¹Nagoya University, Japan
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³Nagoya University, Japan
- P1040A **Micro/nanostructured patterns with a-C:H:F thin films of anisotropic properties grown by plasma CVD**
V. F. Soler, E. B. Serra, C. C. Roca, S. P. Marco, J. I. Aynes, J. A. Bella
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- P1041A **Grating profile control for plasmonic thermal emitter using plasma etching**
T. Sawada, S. Kumagai, M. Sasaki
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- P1042A **Electrical inspection system by using RF plasmas for printed circuit boards**
S. Oh, Y. Kim, C. Chung
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- P1043A **Fabrication of micro-/nanostructured "self-cleaning", antireflective surfaces for IR "sight glasses" by plasma processes**
¹R. Bergmann, ¹I. Thygesen, ¹M. Stenbaek Schmidt, ²S. Clausen, ¹A. Boisen, ³J. Moeller Jensen, ³R. Buchner, ³T. Stolberg-Rohr, ¹M. Havsteen Jakobsen
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- P1044A **Control of dust-particle transportation in multi-frequency capacitively coupled radio frequency discharge**
¹G. Uchida, ²S. Iwashita, ²J. Schulze, ²E. Schuengel, ¹M. Shiratani, ²U. Czarnetzki
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- P1045A **Reaction kinetics between microwave and solid state plasam for formation of nano-domains**
¹M. Sato, ¹T. Sadatugu, ²M. Akihiro, ³F. Jun
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³Nagoya University, Japan
- P1046A **Generation of quasi-pair fullerene ion plasma purifying lithium endohedral C₆₀**
 T. Nagai, T. Kaneko, H. Ishida, R. Hatakeyama
 Tohoku University, Japan
- P1047A **Mesurements of energy influx towards a graphite target in helicon H₂ discharge plasmas using a calorimetric probe**
¹K. Nishiyama, ¹Y. Motita, ¹K. Koga, ¹M. Shiratani, ²N. Ashikawa, ²S. Masuzaki, ²K. Nishimura, ²A. Sagara, ³S. Bornholdt, ³H. Kersten
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- P1048A **Self-ionization of nitrogen atoms from negatively baiased electrode for monitoreing nitrogen atom flux to use PA-MBE**
¹T. Ohachi, ²O. Ariyada, ¹Y. Sato, ¹S. Yoshikado, ¹M. Wada
¹Doshisha University, Japan
²Arios Inc., Japan
- P1049A **Fabrication of diamond whiskers by RF O₂ plasma etching with thin Ni film coating**
¹K. Kageyama, ¹T. Harigai, ¹H. Koji, ^{1,2}H. Furuta, ^{1,2}A. Hatta
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- P1050A **Deposition of ZnO films by plasma-assisted mist-CVD with inductively-coupled RF plasma source**
 K. Takenaka, Y. Okumura, Y. Setsuhara
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- P1051A **Multi-layer organic optical films preparing by plasma of hydrocarbon fluorcarbon polymerization**
¹K. Chen, ^{1,2}S. Liao, ¹H. Wu, ¹Y. Hsu, ³W. Chen
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- P1052A **The three-dimensional silicon nanostructures fabricated by a reactive ion etching technique**
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- P1053C **Temperature dependence of coercivity behavior in Fe films on fractal rough ceramic surfaces**
¹M. Chen, ¹S. Yu, ¹Z. Jiao, ¹M. Yu, ¹F. Bao, ²K. Nakamura
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²Chubu University, Japan
- P1054C **Surface morphology changes of titanium exposed to helium plasmas**
D. Kitaoka, S. Kajita, N. Ohno, T. Yoshida
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- P1055C **Nano-structuring of large area silicon surface by colloidal lithography with sub-micron spheres**
E. Cabrera, S. P. Marco, E. P. Miralles, E. B. Serra
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- P1056C **Effects of various treatments for contaminated implants**
¹J. Oh, ¹J. Jo, ¹S. Kim, ²M. Jeong, ¹S. Lim, ¹B. Kim
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- P1057C **Histomorphometric evaluation after implantation of thin particulated dentin coated implant**
S. Kim, J. You
Chosun University, Korea
- P1058C **A comparative study of stability after the installation of two different surface types of implants in the maxilla of dogs**
S. Kim, J. Im, J. Oh, S. Lim
Chosun University, Korea
- P1059C **Plasma enhancement on the growth of boron nitride prepared from boric acid**
S. Yooyen, T. Kawamura, S. Kotake, Y. Suzuki
Mie University, Japan

- P1060C **Improving electron field emission properties of ultra-nanocrystalline diamond by growing on textured Si substrate**
¹P. Huang, ¹W. Shih, ²K. Teng, ²I. Lin
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- P1061C **Low-temperature nitriding of titanium alloy VT16 (Ti-3Al-4.5V-5Mo)**
 D. Vershinin, M. Smolyakova
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- P1062C **Fabrication of superhydrophobic surface at a local area using atmospheric pressure plasma jet**
¹C. Terashima, ¹Y. Takahashi, ²T. Shirafuji, ¹N. Saito, ¹O. Takai
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- P1063C **Less reflective sub-wavelength structure formed on textured surface using nanosphere mask**
 C. Lin, C. Juan
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- P1064C **Surface modification of PET by low-temperature atmospheric pressure plasma jet: Power effect**
 Y. Kuo, J. Chen
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- P1065C **Nitrogen-doped graphene by plasma treatment and its electrical properties**
 Y. Chen
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- P1066C **Study of textured ZnO:Al thin films for efficient light scattering using chemical wet-etching methods**
 K. Huang, P. Hung, W. Lu, M. Houg
 National Cheng Kung University, Taiwan
- P1067C **Characterisation of functional graphite electrode in vanadium redox battery**
 H. Liang, T. H. Ko, C. R. Wei
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- P1068C **Effects of surface treatment on electrical and optical properties of transparent conducting oxide by inductively coupled plasma**
¹J. Lee, ¹S. Yang, ¹J. Kim, ²J. Kim
¹Sunchon National University, Korea
²Korea Basic Science Institute, Korea
- P1069C **Superhydrophobic electrospun PLA fabrics by SF₆ plasma treatment**
W. Bhanthumnavin, N. Changsarn, B. Paosawatyanong
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- P1070C **Efficiency enhancement of white light-emitting diodes via surface-textured silicone encapsulant**
S. Kim, E. You, K. Lee, S. Ahn, J. Baek
Korea Photonics Technology Institute (KOPTI), Korea
- P1071C **Field emission characteristics of chemical modified carbon nanotubes**
K. Lee, C. Chen, Y. Shih, Y. Chen, C. Ciou, Y. Huang
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- P1072C **Surface modification of GaN substrate by atmospheric microplasma**
¹Y. Noma, ¹M. Blajan, ²S. Naritsuka, ¹K. Shimizu
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²Meijo University, Japan
- P1073C **Preparation of highly visible-light-active photocatalysts by plasma-based ion process**
K. Yamada, K. Yamamoto, T. Sonoda, S. Kiyosue
Kitakyushu National College of Technology, Japan
- P1074C **Adhesion improvement of resin materials nonequilibrium atmospheric pressure plasma pretreatment**
M. Hayakawa, S. Takashima
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- P1075C **Effect of FIB assisted hydrogen blistering and exfoliation**
H. Iwata, M. Takagi, Y. Tokuda
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- P1076C **H₂ plasma cleaning of poly-Si film by using pulse power supply**
¹K. Nishikawa, ¹T. Yabuuchi, ¹S. Yasui, ²T. Manabe, ²K. Koike
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- P1077C **Fabrication of shape-controlled metal nanodot array by electrostatically-driven self-assembly as well as their charge injection properties**
¹R. Sumi, ^{1,3}N. Zettsu, ²T. Hosoi, ²H. Watanabe, ^{1,3,4}N. Saito
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- P1078C **A study on demoulding mechanism using fluorine-based plasma for forming anti-sticking layer**
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- P1079C **Surface modification of multi wall carbon nanotube by solution plasma**
T. Ueno, T. Yamamoto, J. Kang, F. Tanabe, N. Zettsu, N. Saito
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- P1080C **Investigation of Ag surface plasmon absorption on rough substrate**
¹D. Ohba, ²T. Matsui, ¹H. Shirai, ²M. Kondo
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- P1081C **Development of a high sensitive microorganism sensor using an artificial siderophore-modified Au substrate**
T. Murase, H. Tanabashi, H. Eguchi, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
Nagoya Institute of Technology, Japan
- P1082C **Development of microbial cell surface observation system using an artificial siderophore-modified probe**
J. Ito, Y. Kume, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
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- P1083C **The surface modification of stainless steel for solar cell using BCl₃/Ar, Cl₂/Ar an inductively coupled plasma**
¹H. Jang, ¹K. Kwon, ²G. Yeom, ²K. Kim, ²T. Kim, ³S. Yun
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³Electronic and Telecommunications Research Institute, Korea
- P1084C **Synthesis carbon nanotubes on selective of template**
N. Asli, S. A. Bakar, M. S. Shamsuddin, H. Fadzilah, S. F. Yusop, M. Mahmood, S. Abdullah
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- P1085C **Structural and tribological properties of CrN/TiN multilayer coatings**
J. Paulitsch, H. David, M. Paul H.
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- P1086C **Dielectric barrier discharge treatment of vertically aligned carbon nanotubes for field emitter application**
¹Y. Sugioka, ¹R. Kunitomo, ¹Y. Suda, ¹H. Tanoue, ¹H. Takikawa, ²H. Ue, ³K. Shimizu, ⁴Y. Umeda
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- P1087C **Electronic origin of structure and mechanical properties in Y and Nb alloyed Ti-Al-N thin films**
¹J. Paulitsch, ¹D. Holec, ¹R. Rachbauer, ²M. Lattemann, ³L. Hultman, ¹P. Mayrhofer
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- P1088C **Rear earth cation doped ZnO transparent conductive film by sol-gel method**
R. Tsukioka, T. Ban, Y. Ohya
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- P1089C **Thermal plasma nitriding of Al₂O₃ powder**
M. Shahien, Y. Motohiro, Y. Toshiaki, F. Masahiro
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- P1090C **Oxidation of nano-multilayered CrAlMgSiN thin films between 600 and 900 °C in air**
¹D. Lee, ²T. Trinh Van, ²K. Sun Kyu
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- P1091C **Electrochemical sodium insertion into nanocarbon electrodes**
T. Matsushita, Y. Ishii, S. Kawasaki
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- P1092C **Effect of PRP and PRF on peri-implant bone defects in dogs**
K. Jeong, S. Kim
Chosun University, Korea
- P1093C **Atomic layer deposition and electrochemical activity of Pt catalysts on graphene sheets**
C. Hsieh, L. Yung-ying, G. Jun-lun
Yuan Ze University, Taiwan
- P1094C **Chemical and mechanical features of nc-Si:H thin films prepared by PECVD under various electrical substrate-biases**
J. Son, H. Nam, N. Cho
Inha University, Korea
- P1095C **Enhancement of lithium titanate anodes using microwave-assisted zinc nanocoating**
C. Mo, H. Chien-te, C. Bi-sheng, L. Jia-yi, J. Ruey-shin
Yuan Ze University, Taiwan
- P1096C **Fabrication of Pt electrocatalysts using atomic layer deposition**
D. Tzou, C. Hsieh, Y. Liu, W. Chen
Yuan Ze University, Taiwan
- P1097C **Investigation of the nanostructural and electrical features of nc-Si:H thin films for third-generation photovoltaic applications**
H. Nam, J. Son, N. Cho
Inha University, Korea
- P1098C **Pt clusters onto graphene-carbon papers by electrochemical deposition**
H. Hsiao, C. Hsieh, J. Wei, W. Chen
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- P1099C **The effect of photoelectrode by TiO₂ nanotube/nanoparticle composition powder for dye-sensitized solar cells**
 C. Lee, K. Kyung Hwan, C. Hyung Wook
 Kyungwon University, Korea
- P1100C **Nanostructural characterizaion of GdBa₂Cu₃O₇ coated conductor fabricated by in-plume pulsed laser deposition**
¹T. Kato, ¹R. Yoshida, ²N. Chikumoto, ²S. Lee, ²K. Tanabe, ²T. Izumi, ¹T. Hirayama, ²Y. Shiohara
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- P1101C **Formation of electrodes of dye-sensitized solar cell by combining the graphene and carbon nanotube bundles**
 C. Ciou
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- P1102C **High brightness and uniformity studies in field emission light sources using hop-flu structures**
 C. Chang, W. Tsai
 Tatung University, Taiwan
- P1103C **Synthesis and photoluminescence of (Y_{0.9-x}La_x)Eu_{0.1}VO₄ nanocrystal phosphors using sol-gel method**
¹Y. Chang, ²T. Yeou-Yih
¹National Formosa University, Taiwan
²Kao Yuan University, Taiwan
- P1104C **Vertical aligned of In-ZnO nanorod arrays and magnetic properties**
¹P. Tuan, ¹C. Hsiao, ²S. Young, ³C. Huang, ¹S. Chang
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- P1105C **Synthesis of noble metal nanoparticles by plamsa sputtering in solutions**
 X. Hu, O. Takai, N. Saito
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- P1106C **Amorphous Nb-doped SrTiO₃ based transparent conductive oxide films on glass by ion beam sputtering**
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- P1107C **Diode characteristics of nanocomposited MEH-PPV:I-MWNTs with different types of metal contact organic solar cells**
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- P1108C **Synthesis and properties of a N_3S_2 -Type Co(III) Complex as a hydration catalyst of nitrile designed for fixation in a nanoporous material**
H. Takagi
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- P1109C **Rapid synthesis of conductive carbon nanoballs with well defined pore structures by solution plasma process in aromatic hydrocarbo solvent**
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- P1110C **Synthesis of Ni nanoparticles by microwave assisted carbon thermal reduction**
D. H. Wei, C. H. Chao, P. W. Chi, C. J. Chung, C. T. Chang
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- P1112C **A study on high performance solar cell with blended grapheme/polymer**
K. Lee, H. Kim, B. Hong
Sungkyunkwan University, Korea
- P1113C **Development of new catechol-containing Ru(II) complex for dye-sensitized solar cell**
Y. Kawai
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- P1114C **Development of dye-sensitized solar cell with a quadridentate ligand containing two arylamine units**
K. Yamamoto
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- P1115C **Using different methods to grow Bi₂S₃ on various substrates**
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