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|--------|------------------|---|
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 ²Mechanical & Materials Engineering, University of Western Ontario, Canada</p> |
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 Donggeui University, Korea</p> |
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 Department of Electrical and Electronic Engineering, University of Miyazaki, Japan</p> |
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 ²Metals and Machinery Department, Technology Research Institute of Osaka Prefecture,
 ³Department of Materials Science, Osaka Prefecture University, Japan</p> |
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 Materials and Science Engineering, Hanyang Univ., Korea</p> |
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 ²Molecular Science and Technology, Ajou University, Korea</p> |
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 Sungkyunkwan University, Korea</p> |
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 ²Applied Technology Research Group, National Fusion Research Institute, Korea</p> |

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¹ Youngyeon ji, ² Jeong gu kang, ² Tae hwan cheong, ³ Suck hyun Lee
¹ R&D team, triplecores,
² R&D team, SPS,
³ Molecular Science and Technology, ajou university, Korea
- PA2010** [P2009-055](#) **Surface Modification of Dehydrothermal Crosslinked Gelatin Film Using A 50 Hz Oxygen Glow Discharge.**
¹ Isarawut Prasertsung, ² Rattachat Mongkolnavin, ¹ Siriporn Damrongsakkul,
³ Chiw San Wong
¹ Chemical Engineering, Chulalongkorn University,
² Physics, Chulalongkorn University, Thailand,
³ Physics, University of Malaya, Malaysia
- PA2011** [P2009-056](#) **Effect of the distance between screen and sample on active screen plasma nitriding properties.**
¹ Akio NISHIMOTO, ² Kimiaki NAGATSUKA, ² Ryota NARITA, ¹ Katsuya AKAMATSU
¹ Department of Chemistry and Materials Engineering,
² Graduate Student, Kansai University, Japan
- PA2012** [P2009-074](#) **A numerical analysis of welding arc with constant voltage power source.**
Yoshihiro Tsujimura, Kentaro Yamamoto, Shinnichi Tashiro, Manabu Tanaka
Joining and Welding Research Institute, Osaka University, Japan
- PA2013** [P2009-079](#) **The discharge characteristics of argon or different percent air mixed argon atmospheric-pressure radio-frequency discharge with and without dielectric barriers.**
Li bin, Chen qiang
Laboratory of Plasma Physics and Materials, Beijing Institute of Graphic Communication, China
- PA2014** [P2009-083](#) **Calibration of Amine Density Measurement methods on Plasma Grafting PET Surface.**
Lizheng Yang, Juan Li, Zhenduo Wang, Zhongwei Liu, Qiang Chen
Plasma Physics and Materials, Beijing Institute of Graphic Communication, China
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Center for advanced plasma surface technology, Korea
- PA2016** [P2009-085](#) **Increased deposition rate of microcrystalline silicon films deposited with magnetic mirror assisted RF-PECVD.**
Youn J. Kim, Yoon S. Choi, In S. Choi, Jeon G. Han
School of Advanced Materials Engineering, Sungkyunkwan University, Korea
- PA2017** [P2009-090](#) **Characteristics of Ti-Al-Si-N Nanocomposite Film prepared by a Double Bending Filtered Vacuum Arc System and a Magnetron Sputtering Cathode.**
Seunghun Lee, Jun-Yong Lee, Do-Geun Kim, Jong-Kuk Kim
Hybrid coating group, KIMS, Korea
- PA2018** [P2009-092](#) **Numerical analysis of non-equilibrium plasma property in anode boundary layer of argon gas tungsten arc.**
¹ Shinichi Tashiro, ¹ Manabu Tanaka, ² Anthony B Murphy
¹ Joining and Welding Research Institute, Osaka university, Japan,
² Materials Science and Engineering, CSIRO, Australia

- PA2019** P2009-093 **Surface hardening of duplex stainless steel by low temperature active screen plasma nitriding.**
Kimiaki Nagatsuka, Akio Nishimoto, Katsuya Akamatsu
 Department of Chemistry and Materials Engineering, Kansai University, Japan
- PA2020** P2009-094 **The Effect of Mg Contents and Annealing Temperature on the Adhesion of Cu(Mg) Film to Glass Substrate.**
¹ Sung-Geun Kang, ¹ Byeol Han, ² Sung-Kyu Kang, ² Sa-Kyun Rha,
³ Suk-Jae Lee, ⁴ Martin Schlott, ¹ Won-Jun Lee
¹ Department of Advanced Materials Engineering, Sejong University,
² Department of Materials Engineering, Hanbat National University,
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- PA2021** P2009-095 **Derivation of Mechanical Characteristics for Ni/Au Inter-metallic Surface with SAC305 Solder.**
Jong-Min Kim, Hyun-Boo Lee, Jae-Boong Choi, Yoon-Suk Chang, Young-Jin Kim
 Mechanical Engineering, Sungkyunkwan University, Korea
- PA2022** P2009-098 **CHARACTERISTICS OF SiO_x TiN FILM DEPOSITED BY ATMOSPHERIC PRESSURE PLASMA ENHANCED CHEMICAL VAPOUR DEPOSITION USING PDMS/O₂/He GASES AT LOW TEMPERATURE.**
J. H. Lee, E. L. Gil, Y. S. Kim, G. Y. Yeom
 Advanced materials science & engineering, Sungkyunkwan University, Korea
- PA2023** P2009-099 **Influence of Substrates and Annealing on the Al-Cu-Fe Films.**
¹ Xi-ying ZHOU, ¹ Yan-hui LIU, ² Zhou XU
¹ School of Materials Engineering, Shanghai University of Science Engineering,
² School of Materials Science and Engineering, Shanghai Jiaotong University, China
- PA2024** P2009-101 **Etching Characteristics and Evaluation of a Hollow Cathode Ion Source.**
Do-Geun Kim, Min-Ki Choi, Jong-Kuk Kim
 Hybrid coating group, KIMS, Korea
- PA2025** P2009-104 **The Effect of White Layer Formed between AISI 52100 Alloy Steel surfaces on Tribological Characteristics.**
Dae-Hyun Cho, Sung-Ae Lee, Young-Ze Lee
 Mechanical Engineering, Sungkyunkwan University, Korea
- PA2026** P2009-107 **Immersed ICP using new concept of the transmission line balun transformer for ultra high density plasma source.**
¹ Ki Min ROH, ² Shin Jae YOU, ¹ Si Kyung CHOI, ² Jung hyung KIM, ² Dae jin SEONG
¹ Department of material science and engineering, KAIST
² Center for vacuum technology, Korea research institute of standards and science, Korea
- PA2027** P2009-112 **Decomposition of Carbon Dioxide (CO₂) with Synthesis of Zinc Oxide (ZnO) Nanoparticles Using DC Plasma Jet.**
Ji Sung Park, Dong-Wha Park
 Chemical engineering, Inha University, Korea
- PA2028** P2009-120 **Deposition of Multilayered SiO_xCy(-H) Films by Plasma Polymerized Hexamethylcyclotrisiloxane at Atmospheric Pressure.**
Gi Taek Kim, Dong Bum Shin, Yoon Kee Kim
 Advanced Materials Engineering, Hanbat National University, Korea

- PA2029** P2009-144 **Spatiotemporal Behavior of Infrared Emission from Discharge Plasma of AC PDP.**
¹ Yonggyu Han, ¹ Chang gil Son, ² Tae Seung Cho, ¹ Eun - Ha Choi
¹ *Electrophysic, Kwangwoon university,*
² *PDP Development Team, PDP Division, Samsung SDI Co., Ltd., Korea*
- PA2030** P2009-161 **Analysis of plasma characteristics with the change of the antenna capacitance for an internal linear inductively coupled plasma system.**
¹ Seung Pyo Hong, ¹ Nam Kyong Kim, ¹ Jong Hyeuk Lim, ¹ Gwang Ho Gweon,
² Bu Il JEON, ¹ Myung Gon SONG, ³ Geun Young YEOM
¹ *Advanced material Science and Engineering, SungKyunkwan Univ.,*
² *Plasma development team, JUSUNG engineering,*
³ *Advanced material Science and Engineering, SungKyunkwan Univ., Korea*
- PA2031** P2009-169 **Ion energy impact on refractive index of silicon nitride film grown using SiH₄-N₂ pulsed plasma at room temperature.**
Sang Hee Kwon, Hyungsoo Uh, Hyeonggu Lee, Byungwhan Kim,
Electronic Engineering, Sejong university, Korea
- PA2032** P2009-178 **Effect of Irradiation of Proton Ion Beams on the Chitosan-Poly(lactide-co-glycolide) Hybrid Scaffold.**
Jung-hoon Woo, Do-yeon Kim, Seong-yun Jo, Su-mi Kim, Insup Noh
Chemical Engineering, Seoul National University of Technology, Korea
- PA2033** P2009-191 **Comparison of coating failure and wear resistances between TiN and TiAlN coatings on Ti-alloy.**
¹ Hwan KIM, ¹ Kwon Yong LEE, ² Inseop LEE, ³ Gun-Hwan LEE,
⁴ Jong-Chul PARK, ⁵ Sung Jae LEE
¹ *Mechanical Engineering, Sejong University,*
² *Institute of Physics and Applied Physics, Yonsei University,*
³ *Surface Engineering, Korea Institute of Machinery and Materials,*
⁴ *Department of Medical Engineering, Yonsei University,*
⁵ *Biomedical Engineering, Inje University, Korea*
- PA2034** P2009-193 **The gold role in corrosion protection of ENIG surface finishing in microelectronic application.**
Quoc Vu Bui, Seung-Boo Jung
Advanced Materials Engineering, Sungkyunkwan University, Korea
- PA2035** P2009-194 **Cell adhesion affected by surface amine density of plasma polymerized ethylenediamine films deposited by plasma enhanced chemical vapor deposition.**
¹ Kyungseop Kim, ¹ Changrok Choi, ² Jeong Min Kim, ² Heonyong Park, ¹ Donggeun Jung
¹ *Physics, Sungkyunkwan University*
² *Molecular Biology, Dankook University, Korea*
- PA2036** P2009-196 **Effects of magnetic in-plane anisotropy on magnetic and electronic properties in a Co/MgO/Co magnetic tunnel junction system.**
Kisung Chae, Yong-Chae Chung
Department of Materials Science and Engineering, Hanyang University, Korea
- PA2037** P2009-197 **Modeling of Residual Stresses in TBC Coated Gas Turbine Blades.**
¹ IMDAT TAYMAZ, ² FATIH USTEL, ¹ YASAR KAHRAMAN
¹ *MECHANICAL ENGINEERING,*
² *METALLURGICAL and MATERIALS ENGINEERING, SAKARYA UNIVERSITY ENGINEERING FACULTY, Turkey*

- PA2038** P2009-206 **Bactericidal and fungicidal effects of an atmospheric pressure gas discharge and degradation mechanisms.**
Georg Avramidis, Richard Wascher, Martin Bellmann, Arndt Wolkenhauer, Wolfgang Viol
Faculty of Natural Sciences and Technology, University of Applied Sciences and Arts, Germany
- PA2039** P2009-213 **The Characteristics of un-doped Zinc oxide, Cadmium oxide and Antimony oxide prepared by RF magnetron sputtering.**
¹ yanwen zhou, ¹ Fayu Wu, ¹ Chunyan Zheng, ² Yuanhua Xia
¹ *School of Materials Science and Engineering, University of Science and Technology Liaoning,*
² *State Key Laboratory of Materials Modification by Laser, Ion and Electron Beams, Dalian University of Technology, China*
- PA2040** P2009-214 **Electrochromic Properties of Amorphous SnN Films Prepared by Glancing-angle Sputter Deposition.**
¹ Hayato Tsuda, ¹ Hiroyuki Ishikawa, ² Yuujiro Iwai, ² Kazuya Hasagawa, ³ Yasushi Inoue, ¹ Osamu Takai
¹ *Graduate School of Engineering,*
² *Department of Engineering,*
³ *EcoTopia Science Institute, Nagoya University, Japan*
- PA2041** P2009-216 **Influence of Refractory Ceramic Coatings on High Temperature Properties of Ni-Cr-based Alloys.**
¹ Hyun Cho, ² Kwang Hyun Bang, ³ Byeong Woo Lee
¹ *Dept. of Nanosystem and Nanoprocess Engineering, Pusan National University,*
² *Dept. of Mechanical and Information Engineering,*
³ *Dept. of Materials Engineering, Korea Maritime University, Korea*
- PA2042** P2009-218 **Corrosion prevention property of DLC films against chemicals.**
¹ Tomokazu Sato, ² Hiroshi Isogawa, ³ Yasuharu Ohgoe, ² Fukuo Shizuku, ⁴ Kenji Hirakuri
¹ *Graduate school of Science and Engineering, Tokyo Denki University,*
² *Sankyo Seisakusho Limited,*
³ *Division of Life Science and Engineering,*
⁴ *School of Engineering, Tokyo Denki University, Japan*
- PA2043** P2009-220 **Controlling interparticle distances on DNA via self assembly of Biotin and Streptavidin conjugated Si nanoparticles.**
¹ Sunho Kim, ² Kyoungseob Kim, ² Daeyoung Bang, ² Yonghan Roh
¹ *SKKU Advanced Institute of Nanotechnology (SAINT),*
² *School of Information and Communication Engineering, Sungkyunkwan University, Korea*
- PA2044** P2009-223 **Characteristics of sealed PEO coatings from electrochemical impedance spectroscopy.**
Guo-Hua Lv, Huan Chen, Si-Ze Yang
Physics, Institute of Physics, Chinese Academy of Sciences, China
- PA2045** P2009-225 **Crystallization behavior of amorphous silicon thin film deposited by dc/rf magnetron sputtering with substrate bias.**
Seung-Min Lee, Tae-Yeon Seong, Jong-Keuk Park
Department of Materials Science and Engineering, Korea University, Korea

- PA2046** P2009-227 **MECHANICAL-THERMAL CHARACTERISTIC OF ORGANIC THIN FILM TRANSISTOR WITH NANO-COMPOSITE GATE DIELECTRIC LAYER.**
¹ SeongChan Lee, ¹ DeokKyou Lee, ² YoungGuk Seol, ³ NaeEung Lee, ³ JongHyun Ahn, ⁴ YounJae Kim
¹ Graduate School of Mechanical Engineering,
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³ School of Advanced Materials Science & Engineering,
⁴ School of Mechanical Engineering, Sungkyunkwan University, Korea
- PA2047** P2009-229 **Cellular response on hydroxyapatite coated poly (lactide-co-glycolide) (PLGA) and poly(lactide-co-ε-caprolactone) (PLCL) film for cartilage regeneration.**
¹ Chidong Shin, ² B.J Park, ² H.J Seo, ² J.K Kim, ³ J.C Park, ⁴ J.B Choi
^{1,2} Bio Medical Eng., Inje UNIV., ² Bio Medical Eng.,
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- PA2048** P2009-233 **Electrical and optical properties of In-Zn-Sn-O thin film deposited on polymer substrates through a Hetero-Target Sputtering System.**
Dae Hyun Kim, Sang Mo Kim, Kyung Hwan Kim
Department of Electrical engineering, Kyungwon University, Korea
- PA2049** P2009-236 **Microstructure Study on the Intermetallic Phase Formation at Al thin coating during diffusion treatment.**
¹ Zulkarnain zulkarnain, ¹ Baek Eung-Ryul, ¹ Andy Tirta, ² Kim Tai-Ho
¹ Materials Science and engineering, Yeungnam University,
² Automotive Steel Applications Research Group, POSCO, Korea
- PA2050** P2009-239 **Methodical study of the micro arc oxidation processes on titanium alloy Ti6Al4V for corrosion protection in SBF solution.**
¹ Seyed Mohammad Mahdi Mirhosseini, ¹ Mohammad Ali Faghihi Sani,
¹ Behzad Farshid, ² Mostafa Meghdari
¹ Materials Science and Engineering, Sharif University of Technology,
² Materials Science and Engineering, Islamic Azad University-Science and Research Branch, Iran
- PA2051** P2009-240 **Some properties on Conversion Efficiency of Flexible Film-Typed DSCs with ZnO:Al and ITO Transparent Conducting layers.**
¹ JiHoon Kim, ¹ Ki-Young Jung, ¹ Youl-Moon Sung, ¹ Dong-Joo Kwak, ² Min-Woo Park
¹ Electrical & Electronic Engineering,
² Material Engineering, Kyungsung University, Korea
- PA2052** P2009-242 **Properties of ZnO:Al transparent conducting window layer for CIGS thin film solar cells.**
¹ Yu Sup Jung, ¹ Sang Mo Kim, ² Sang Joon Park, ¹ Kyung Hwan Kim
¹ Electrical Engineering,
² Chemical Engineering, Kyungwon University, Korea
- PA2053** P2009-243 **Effects of collagen coating on surface of polymer/bio-ceramic composite scaffold for chondrocytes attachment and proliferation.**
¹ S.H Lee, ¹ H.J. Seo, ¹ C.D. Shin, ² J.B. Choi, ¹ J.K Kim
¹ Biomedical Eng., Inje Univ.,
² Mechanical Systems Eng., Hansung Univ., Korea

- PA2054** P2009-273 **Infrared spectroscopic study on amorphous carbon deposition process using acetylene plasma.**
¹ Hiroki Kawazoe, ¹ Takanori Inayoshi, ¹ Taka-aki Kawakami, ² Masanori Shinohara,
² Yoshinobu Matsuda, ¹ Hirshoshi Fujiyama, ³ Yuuki Nitta, ⁴ Tatsuyuki Nakatani
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³ TOYO-atec Co. LTD.,
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- PA2055** P2009-278 **Synthesis and thermal conductivity of sialon nanocomposite layers fabricated by plasma electrolytic oxidation for potential TBC applications.**
Mahmood Aliofkhaezraei, Alireza Sabour Rouhaghdam
Materials Engineering, Tarbiat Modares University, Iran
- PA2056** P2009-296 **Dielectric and electric properties of multilayer ceramic capacitor with SL temperature characteristics.**
¹ HYUNDUK KIM, ² HYUNIL KANG, ¹ JOONTAE SONG
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² SeoulMetro, R&D Center, Korea
- PA2057** P2009-297 **Effects of HA/Ti film coating on the surface characteristics of nanotubular Ti-35Ta-xZr alloys for biomaterials.**
¹ Yong Hoon Jeong, ¹ HanCheol Choe, ¹ YeongMu Ko, ² William A. Brantley
¹ Department of Dental Materials & Research Center of Nano-Interface Activation for Biomaterials, School of Dentistry, Chosun Univ., Korea,
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- PA2058** P2009-304 **Preparation of silicon nanoparticles using ablation plasma and substrate cooling.**
Byoung Jung Choi, Chul Hong Lee, Young Gi Kim, Sung Chae Yang
Electric Engineering, Chonbuk National University, Korea
- PA2059** P2009-307 **Enhancement of Biocompatibility on Titanium Surfaces by Plasma Cleaning and Polymerization.**
¹ Hsin-Chung Cheng, ¹ Chiun-Fang Huang, ¹ Chang-Chih Chen, ² Yu-Lin Chung,
³ Keng-Liang Ou
¹ School of Dentistry, Taipei Medical University,
² Institute of Materials Science and Engineering, National Sun Yat-sen University,
³ Research Center for Biomedical Implant and Microsurgery Device, Taipei Medical University, Taiwan
- PA2060** P2009-315 **Magnetron sputter deposition of cubic boron nitride on CVD-diamond substrates.**
¹ Jian Ye, ¹ Sven Ulrich, ¹ Michael Stüber, ² Eckhard Wörner
¹ Institute for Materials Research I, Forschungszentrum Karlsruhe,
² Fraunhofer-Institut für Angewandte Festkörperphysik - IAF, Germany
- PA2061** P2009-316 **Influence of Ar-N₂ gas composition on magnetron-sputter deposition of cubic boron nitride films.**
Sven Ulrich, Jian Ye, Michael Stüber
Institute for Materials Research I, Forschungszentrum Karlsruhe, Germany
- PA2062** P2009-317 **Gas diffusion barriers on flexible dye-sensitized solar cells.**
¹ Li-Tien Huang, ² R.R. Wang, ¹ H.C Lin
¹ Department of Materials Science and Engineering, National Taiwan University,
² Taiwan Textile Research Institute, Taiwan

- PA2063** P2009-319 **Effect of N₂ addition in Ar plasma on the development of microstructure of ultra-nanocrystalline diamond films.**
I-nan Lin
Physics, Tamkang University, Taiwan
- PA2064** P2009-324 **The Effects of Surface Profiles and Coatings on the Tribological Behavior of a Piston Skirt.**
DaeHyun Cho, SungAe Lee, Young-Ze Lee
Mechanical Engineering, SungKyunKwan University, Korea
- PA2065** P2009-332 **BIAS-PULSE EFFECT ON TRENCH-DEPTH LOADING.**
Je Woo Han, Song Yi Yang, Jeong Yun Lee, Dong Hyun Kim, Kyoung Sub Shin, Gyung Jin Min, Chan Hoon Park, Joo Tae Moon
Semiconductor R&D center, Samsung Electronics, Korea
- PA2066** P2009-335 **A novel p-type nc-Si prepared by PECVD from a new gas mixture for window layer of high efficiency thin-film silicon solar cell.**
Jin Jang, Jun-young Jeong
Advanced Display Research Center & Department of Information Display, Kyung Hee University, Korea
- PA2067** P2009-339 **Effect of plasma nitriding on the erosion and erosion-corrosion resistance of precipitation hardening plastic mold steel.**
Dong-Cherng Wen
Department of Mechanical Engineering, China Institute of Technology, Taiwan
- PA2068** P2009-340 **The dependence of the electrical properties of IGZO-based thin film transistors on the active layer thickness.**
1Mi Ran Moon, 1Eunkyong Nam, 2Jaehyun Yang, 2Kyung Park, 1Donggeun Jung, 2Hoo-Jeong Lee, 2Hyoungsub Kim
¹ *Physics, Sungkyunkwan University,*
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- PA2069** P2009-343 **Effect of post-deposition annealing on the performance of D.C. sputtered Cu₂SnSe₃ thin films**
1 Dong-Hau Kuo, 2 Wei-Di Huang, 3 Ying-Sheng Huang, 3 Jiun-De Wu, 3 Yan-Jih Lin
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² *Materials Science and Engineering,*
³ *Department of Electrical Engineering, National Taiwan University of Science and Technology, Taiwan*
- PA2070** P2009-350 **Improvement of Field Emission Properties of Carbon Nanotubes Using Plasma Treatment and Silicon Coating.**
1 Wen-Ching Shih, 1 Jian-Min Jeng, 1 Chen-Pang Huang, 2 Jyi-Tsong Lo
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- PA2071** P2009-352 **INFLUENCE OF PLASMA IMPULSE FREQUENCY ON COATINGS MORPHOLOGY DURING IMPULSE PLASMA DEPOSITION**
1 Rafal Chodun, 2 Katarzyna Nowakowska-Langier, 1 Krzysztof Zdunek
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² *Department of Plasma Physics and Technology, The Andrzej Soltan Institute for Nuclear Studies, Poland*
- PA2072** P2009-362 **Rapid Improvement of Polymer Film Adhesion by High Density Plasma**
1 Hirotaka Toyoda, 1 Y. Gunjo, 1 K. Goto, 1 T. Ishijima, 2 K. Iseki, 3 H. Sugai
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- PA2073** P2009-376 **Surface Phenomena of HA Film Coated/Nanotube Formed Ti-Ta-Zr Alloy by Using EB-PVD and Anodization**
Han-Cheol Choe
Dental Materials, School of Dentistry, Chosun University, Korea
- PA2074** P2009-424 **The Effect of TiN and CrN Coatings on the Fretting Wear of Tubes against Supports in a Nuclear Steam Generator**
Dong-Shin Park, Jung-Min Park, Sung-Hoon Jeong, Young-Ze Lee
Mechanical Engineering, SungKyunKwan University, Korea
- PA2075** P2009-430 **Liquid metal ion source (LMIS) with suppressor**
Byeong Seong Cho, Ki Baek Song, Hyun Joo Oh, Seung-Oun Kang, Eun-Ha Choi
PDP Research Center, Kwangwoon University, Korea
- PA2076** P2009-431 **Fabrication of Carbon Nanotube Gas Sensors by Inkjet Printing Process for Large Scale Production for Monitoring of NOx Gas**
Md. Mosharraf Hossain Bhuiyan, K. Senba, F. Mitsugi, T. Ikegami
Electrical Engineering and Computer Science, Frontier Technology for Energy & Devices, Kumamoto University, Japan
- PA2077** P2009-438 **Studying reduction of patterned photoresist for three dimensional devices**
¹ HanHyoung Kim, ¹ HaeJung Park, ¹ Se-Hwan Sim, ² Seung-Kook Yang, ³ Jong-Geun Lee, ¹ Beom-Hoan O, ¹ Seung-Gol Lee, ¹ El-Hang Lee, ¹ Se-Geun Park
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² PSK inc,
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- PA2078** P2009-440 **Generation of Al-doped ZnO Thermoelectric Materials using Spark Plasma Sintering Method**
¹ Tatsuya Misawa, ² Noboru Shikatani, ³ Yuji Kawakami, ³ Takashi Enjoji, ¹ Yasunori Ohtsu
¹ Department of Electrical and Electronic Engineering, Saga University,
² Department of Life, Environment and Material Science, Fukuoka Institute of Technology,
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- PA2079** P2009-456 **Effect of duty cycle on the corrosion resistance of PEO coatings on AZ31 magnesium alloy**
H CHEN, G. H. LV, S. Z. YANG
Physics, Institute of Physics, China
- PA2080** P2009-459 **PHASE COMPOSITION, THERMAL STABILITY, PHYSICAL AND MECHANICAL PROPERTIES OF SUPERHARD NANOCOMPOSITE COATINGS ON Zr-Ti-Si-N BASE**
¹ Alexander.D. POGREBNJAK, ² Oleg.V. SOBOL, ³ Vyacheslav.M. BERESNEV, ³ Petr.V. TURBIN, ⁵ Grigoriy.V. KIRIK, ⁶ Nemat.A. MAKHMUDOV, ¹ Andrey.P. SHYPYLENKO
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² National Technical University,
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⁵ Concern "UKRROS METAL", Ukraine
⁶ Samarkand State University, Uzbekistan
- PA2081** P2009-494 **The Effects of Oxygen on the Surface Morphology and Crystal Structure of Zn-Mg Film Produced by PVD Method**
Il-Yong BAE, Yeon-Won KIM, Jun KANG, Hye-Na RA, Kyung-man MOON, Myeong-Hoon LEE
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