

Poster Program

Poster session 1
Tuesday, 28th July 2015 at 12:00-14:00

[P1.01]	Characterization and mechanical properties of powder metallurgy Ti-6Al-4V alloy A. Kaouka*, K. Benarous, S. Tsipas, <i>Laghouat University, Algeria</i>
[P1.02]	Morphological Variation of Stimuli-responsive Polypeptide at Air-water Interface S. Shin*, S. Ahn, M. Park, D. Lee, J. Cheng, J. Hyun, <i>Seoul National University, Republic of Korea</i>
[P1.03]	Tribological properties of organic borate esters and their combination with organic phosphates as lubricant additives in PAO B.J. Fan ^{1,2} , J.C. Li ^{1,2} , T.H. Ren ¹ , ¹ <i>Shanghai Jiao Tong University, China</i> , ² <i>Lanzhou Institute of Chemical Physics, China</i>
[P1.04]	Highly-transparent slippery surfaces made with porous silica nanoparticulate thin films K.K. Tseng, W.H. Lu, C.W. Han, Y.M. Yang*, <i>National Cheng Kung University, Taiwan</i>
[P1.05]	The effect of the flowrate ratio of N₂:O₂ on the structure and properties of Cr-O-N composite coatings Q. Wan*, X.F. Yang, H.D. Liu, S.J. Yan, Y.M. Chen, D.J. Fu, B. Yang, <i>Wuhan University, China</i>
[P1.06]	Effects of nitrogen pressure on the microstructure and corrosion behavior of Ti-Si-N coating synthesized by multi-arc ion plating Q. Wan*, H. Ding ¹ , Y.M. Chen ¹ , H.D. Liu ¹ , C. Luo ¹ , Y.R. Xu ¹ , D.J. Fu ² , F. Ren ¹ , B. Yang ¹ , ¹ <i>Wuhan University, Christmas Island</i> , ² <i>Wuhan University, China</i>
[P1.07]	Microstructure and property of diamond-like carbon films with Al and Cr co-doping using a high power impulse magnetron sputtering W. Dai*, Q.M. Wang, <i>Guangdong University of Technology, China</i>
[P1.08]	Surface finishing of a gray cast iron metal surface by micro plasma beam irradiation at atmosphere W. Dai*, J.J. Li, Z.Z. Zheng, Q.W. Huang, <i>Huazhong University of Science and Technology, China</i>
[P1.09]	Surface integrity analysis of Ti-6Al-4V by EDM with Cu-SiC composite electrode L. Li, <i>Shandong university of Technology, China</i>
[P1.10]	Wear behavior of wear-resistant adaptive nano-multilayered Ti-Al-Mo-N coatings V.S. Sergevnin*, I.V. Blinkov, A.O. Volkhonskii, D.S. Kuznetsov, <i>National University of Science and Technology "MISIS", Russia</i>
[P1.11]	The influence of welding parameters on the corrosion resistance of new lean duplex stainless steel M. Bonek ¹ , Z. Brytan ¹ , J. Niaga ² , ¹ <i>Silesian University of Technology, Poland</i> , ² <i>Institute of Welding, Poland</i>
[P1.12]	Biocompatibility of osteoblasts on variable coatings of β-TCP with radiofrequency (RF) magnetron sputter deposited calcium phosphate and magnesium thin films X.H. Piao*, I.S. Lee, K.D. Park, Y.J. Kim, <i>Chonnam National University, Republic of Korea</i>
[P1.13]	Enhancing responsivity of MgZnO/p-Si heterojunction photodetectors using oxygen-plasma treatment J.D. Hwang ¹ , S.Y. Wang ¹ , S.B. Hwang ² , ¹ <i>National Chiayi University, Taiwan</i> , ² <i>Chienkuo Technology University, Taiwan</i>
[P1.14]	Thiosemicarbazide derivative immobilization on the porous silicon surface for lead ions sensor S.Y. Li ¹ , W.H. Ma ¹ , X.H. Chen ² , Y.P. Li ² , Y. Zhou ¹ , M. Cao ¹ , X. Yang ¹ , ¹ <i>Kunming University of Science and Technology, China</i> , ² <i>Yunnan University, China</i>
[P1.15]	Synthesis and characterization core-shell composite latexes of polyhedral oligomeric silsesquioxane-grafted-poly (styrene-acrylate) by emulsion copolymerization W.B. Liao*, X.X. Huang, N. Zhang, L.Y. Ye, S.H. Lan, F.B. Fan, <i>Dong Guan University of Technology, China</i>
[P1.16]	KTiOPO₄ optical waveguide produced by Rb⁺-K⁺ ion exchange followed by He⁺-ion irradiation X.J. Cui, L.L. Wang*, <i>University of Jinan, China</i>
[P1.17]	The process and mechanism of the GaN formed by nitridation of b-Ga₂O₃ crystal L.L. Wang*, X.J. Cui, <i>University of Jinan, China</i>
[P1.18]	Research on vibration damping properties of YSZ coating deposited by EB-PVD G.Y. Du*, Y.P. Wei, K. Liu, W. Sun, D.C. Ba, <i>Northeastern University, China</i>

[P1.19]	Surface modification of BaTiO₃ particles by three types of coupling: evaluation of different surface tension on electrical, rheological, mechanical properties of HDPE/BaTiO₃ composites J. Su* ^{1,2} , J. Zhang ¹ , ¹ Nanjing University of Technology, China, ² Nanjing Institute of Industry Technology, China
[P1.20]	Different types of electrodeposited nanostructured cobalt films and their wettability H. Xiao*, P-H. Xu, A-M. Hu, M. Li, Shanghai Jiao Tong University, China
[P1.21]	Electrochemical and photocatalysis mechanism of microstructured WO₃ based on AAO template prepared by RF sputtering Z.L. Zhu* ¹ , Z.C.P. Zhang ¹ , C.H.N. Cui ^{1,2} , W.H.S. Wang ² , ¹ JiLin University, China, ² College of ZhaoQing, China, ³ South China University, China
[P1.22]	Modification of polymer surfaces by low temperature plasma W. Bo ¹ , V. Trachevskiy ^{1,2} , L. Zozulya ² , A. Chernaya ² , M. Kartel* ^{1,3} , ¹ Ningbo University of Technology, China, ² National Aviation University, Ukraine, ³ O. Chuiko Institute of Surface Chemistry, Ukraine
[P1.23]	The effects of grain size and surface energy on the thermodynamic properties of nanomaterials X.H. Yu ¹ , J. Rong ² , Z.L. zhan* ¹ , Y. Wang ² , Z. Liu ² , ¹ Kunming University of Science and Technology, China, ² National Engineering Research Center of Waste Resource Recovery, China
[P1.24]	Surface hydrophilic modification of acrylonitrile-butadiene-styrene terpolymer by poly(ethylene glycol-co-1,4-cyclohexanedimethanol terephthalate): Preparation, characterization, and properties studies T.T. Chen*, J. Zhang, Nanjing Tech University, China
[P1.25]	Surface wettability of TiO₂ nanotube arrays prepared by electrochemical anodization G.H. Liu* ^{1,2} , K. Du ¹ , K.Y. Wang ¹ , ¹ Buskerud and Vestfold University College, Norway, ² Anhui University of Technology, China
[P1.26]	Preparation of ZnO nanorods on conductive Ag/PET fibers Y. Gong*, Y. Li, Y. Chen, H. Zhang, J. Guo, Dalian Polytechnic University, China
[P1.27]	Limits to the influence of surface roughness on the odd-even effect in wetting properties of self-assembled monolayers J.C. Chen* ¹ , S.M.G. Gathiaka ² , M.T. Thuo ¹ , ¹ Iowa State university, USA, ² Auburn University, USA
[P1.28]	Molecular dynamics simulation of effects of mixing and tilted interface on growth of Au/Ni bilayers T. Fu*, X.H. Peng, C. Feng, Y.B. Zhao, Chongqing University, China
[P1.29]	Optimization of abrasion resistance of polyesterpolyurethane coatings F. Xue*, J. Gu, Y. Li, Department of Applied Chemistry, School of Science, Xi'an Jiaotong University, China
[P1.30]	Study on the preparation of boron-rich film by magnetron sputtering in oxygen atmosphere Z.M. Pan, Y.M. Yang, J. Huang, B. Ren, H.Z. Yu, H.H. Ji*, L.J. Wang, School of Materials Science and Engineering, Shanghai University, China
[P1.31]	A room temperature ammonia gas sensor based on cellulose/TiO₂/PANI composite nanofibers Z.Y.P. Pang*, J.N.Z. Zhang, J.P.F. Fu, F.L.H. Huang, Q.F.W. Wei, Jiangnan University, China
[P1.32]	Surface properties of chitosan/montmorillonite composite films for biomedical applications S.H. Chang, M.H. Hsieh*, J.S. Liou, National I-Lan University, Taiwan
[P1.33]	Surface characteristics of chitosan films modified by diethoxydimethylsilane S.H. Chang, Y.T. Kuan*, B.Y. Huang, National I-Lan University, Taiwan
[P1.34]	Thermal stability of hydrogenated diamond films in nitrogen atmosphere B. Ren*, Z.M. Pan, Q.K. Zeng, J. Huang, H.Z. Yu, L.J. Li, L. Wang, R. Xu, L.J. Wang, Shanghai University, China
[P1.35]	The formation of FHA coating on biodegradable Mg-Zn-Zr alloy using a two-Step chemical treatment method S.T. Jiang ¹ , J. Zhang ¹ , S.Z. Shun ¹ , M.F. Chen* ^{1,2} , ¹ Tianjin University of Technology, China, ² Key Laboratory of Display Materials and Photoelectric Device (Ministry of Education), China
[P1.36]	Effect of target density on the growth and properties of YGBCO thin films deposited by pulsed laser deposition L.F. Liu*, Y.J. Li, X. Wu, Y.J. Yao, M.L. Wang, Shanghai Jiao Tong University, China
[P1.37]	Preparation and magnetic properties of perpendicular Co-rich Co-Pt films S.C. Chen ¹ , C.K. Wen* ¹ , P.C. Lin ¹ , J.Y. Chiou ¹ , S.T. Chen ² , P.C. Kuo ² , ¹ Ming Chi University of Technology, Taiwan, ² National Taiwan University, Taiwan
[P1.38]	Influence of the thickness of si layer on the crystallization mechanism and recording performance of Si/NiSi Write-Once Blu-Ray disc S.L. Ou ¹ , C.K. Wen* ² , P.C. Lin ² , S.C. Chen ² , Y.C. Lin ² , T.Y. Kuo ¹ , ¹ National Taiwan University, Taiwan, ² Ming Chi University of Technology, Taiwan

[P1.39]	Experimental research of surface roughness and surface texture after laser cladding D. Przystacki*, R. Majchrowski, L. Marciniak-Podsadna, <i>Poznan University of Technology, Poland</i>
[P1.40]	Preparation and formation mechanism of the Zr-alloyed layer on 440B stainless steel by plasma surface alloying H.H.S. Shen*, X.P.L. Liu, <i>Taiyuan University of Technology, China</i>
[P1.41]	The interface of a Fe₃O₄/Ga₂O₃/GaN spin injecting structure grown by metal-organic chemical vapour deposition K. Tang*, S.M. Huang, S.L. Gu, J.D. Ye, S.M. Zhu, R. Gu, Z.H. Xu, Z.R. Yao, Y.D. Zheng, <i>Nanjing University, China</i>
[P1.42]	The high-temperature epitaxy of ZnO films: The roles of the buffer layer thickness K. Tang*, S.M. Huang, S.L. Gu, J.D. Ye, S.M. Zhu, Y.D. Zheng, <i>Nanjing University, China</i>
[P1.43]	Comparative study of tellurium-nitrogen co-doped and nitrogen mono-doped ZnO films: The roles of tellurium in N-doped ZnO K. Tang*, R. Gu, S.L. Gu, J.D. Ye, S.M. Zhu, Z.R. Yao, Z.H. Xu, Y.D. Zheng, <i>Nanjing University, China</i>
[P1.44]	MD simulation of effects of deposition defects on hardness of Cu/Ni, Ag/Ni and Au/Ni films Y. Zhao*, X. Peng, T. Fu, C. Feng, <i>Chongqing University, China</i>
[P1.45]	Wear resistance of TiN/Ti composite layer formed on QBe1.9 copper alloy by plasma surface Ti-alloying and nitriding L.L. Liu*, X.P.L. Liu, <i>Taiyuan University of Technology, China</i>
[P1.46]	Surface roughness of multilayer laser deposited cemented carbide after turning under LAM conditions T. Chwalczuk*, D. Przystacki, <i>Poznan University of Technology, Poland</i>
[P1.47]	Synthesis of Ti compound fine particle by another laser assisted laser ablation in liquid ethanol S. Kigawa*, S. Kurumi, K. Matsuda, K. Suzuki, <i>Graduate Student, Electrical Engineering, College of Science & Technology, Nihon University, Japan</i>
[P1.48]	Thin films of Re-Co alloys formed by electroless plating A. Duhin, A. Inberg*, N. Eliaz, E. Gileadi, <i>Tel-Aviv University, Israel</i>
[P1.49]	Generation of fine bubbles by piezoelectric actuator with multi-nozzle and growth of CaCO₃ onto the nozzle Y. Aoyagi*, S. Kurumi, T. Kaito, K. Matuda, K. Suzuki, <i>College of Science & Technology, Nihon University, Japan</i>
[P1.50]	Conversion coating of AZ31 Mg alloy in aluminium sulphate based solution S.A. Salman* ^{1,2} , K. Kuroda ¹ , M. Okido ¹ , ¹ <i>Nagoya University, Japan</i> , ² <i>Al-Azhar University, Egypt</i>
[P1.51]	The effect of target doping on Y_{1-x}R_xBa₂Cu₃O_{7-δ} superconducting thin film prepared by PLD M.L. Wang*, Y.J. Li, L.F. Liu, X. Wu, Y.J. Yao, B.B. Wang, <i>Shanghai Jiao Tong University, China</i>
[P1.52]	Effects of substrate temperature on the properties of magnetron co-sputtered Cu-doped and pure ZnO films P.P. Zhou*, H.N. Liu, L.A. Zhang, Z. Wang, <i>Beijing Institute of Technology, China</i>
[P1.53]	Oxygen partial pressure -dependent of structure and optical properties of Cu-doped and pure ZnO thin films H.N. Liu*, P.P. Zhou, L.A. Zhang, Z. Wang, <i>Beijing Institute of Technology, China</i>
[P1.54]	An orientation competition in MgO thin films on glass substrates prepared by ion-beam-deposition H.N. Liu*, H.P. Lu, X. Li, S. Tong, Z. Wang, <i>Beijing Institute of Technology, China</i>
[P1.55]	PVD surface treatment of heat-treated cast aluminium alloys T. Tański, K. Labisz, M. Krupiński, M. Bonek*, <i>Silesian University of Technology, Poland</i>
[P1.56]	Oxidation and hot corrosion behavior of atmospheric plasma-sprayed MCrAlY-Cr2O3 coatings at 800 °C T.T. zhang* ^{1,2} , H. Lan ¹ , C.B. Huang ¹ , B.C. Zhang ¹ , L.Z. Du ¹ , W.G. Zhang ¹ , ¹ <i>Chinese Academy of Sciences, China</i> , ² <i>University of Chinese Academy of Sciences, China</i>
[P1.57]	Effects of aluminum addition on oxidation and hot corrosion behaviour of porous NiCr at 750°C L.Y. Chen* ^{1,2} , C.B. Huang ² , H. Lan ² , B. Yang ¹ , W.G. Zhang ² , L.Z. Du ¹ , ¹ <i>University of Science and Technology Beijing, China</i> , ² <i>Chinese Academy of Sciences, China</i>
[P1.58]	Effects of parameters on TiN films fabricated by ion beam assisted sputtering deposition from Titanium target S. Tong*, L.A. Zhang, H.N. Liu, Z. Wang, <i>Beijing Institute of Technology, China</i>
[P1.59]	Atomic and mesoscopic structure of nanotubular anodic titania N.M. Yakovleva ¹ , K.V. Stepanova* ¹ , H. Pettersson ² , A.N. Kokatev ¹ , E.A. Chupakhina ¹ , O.I. Savchenko ¹ , ¹ <i>Petrozavodsk State University, Russia</i> , ² <i>Halmstad University, Sweden</i>
[P1.60]	Fabrication of phosphorycholine functional coating on magnesium alloy for improvement of corrosion resistance and biocompatibility Y.S. Chen*, X.D. Wang, H.M. Qian, <i>Shaanxi Normal University, China</i>
[P1.61]	Binding Ag nanoparticles onto micro-arc oxidation-treated Mg alloy surface via polydopamine interface Y.S. Chen*, X.D. Zhang, G.J. Yan, L.L. Huang, <i>Shaanxi Normal University, China</i>

[P1.62]	Nanocomposite materials on the base of self-organized porous anodic oxide films A.N. Kokatev* ¹ , N.M. Yakovleva ¹ , E.A. Chupakhina ¹ , H. Pettersson ² , K.V. Stepanova ¹ , E.Y. Khanina ¹ , A.M. Shulga ¹ , S.G. Vasilyev ¹ , ¹ Petrozavodsk State University, Russia, ² Halmstad University, Sweden
[P1.63]	study on flow field of bearing lubrication with partially superhydrophobic surface on transparent bearing bush inner surfaces L. Wang* ¹ , D. Lv ¹ , Q. Wang ² , H. Duan ¹ , X. Yang ¹ , W. Liu ¹ , Z. Liu ¹ , ¹ Xi'an Jiaotong University, China, ² Xi'an University of Technology, China
[P1.64]	Fabrication of different micro or hierarchical structures on flexible PDMS H. Duan* ¹ , L. Wang ² , Q. Wang ² , ¹ Xi'an Jiao Tong University, China, ² Xi'an University of Technology, China
[P1.65]	Preparation and characterization of waterborne Polyurethane coatings modified by polyhedral oligomeric silsesquioxane for wood substrate S.W. Wei* ^{1,2} , Y.C. Cai ¹ , D.W. Wang ¹ , J.G. Gu ¹ , J.S. Shi ³ , J.C. Cao ² , ¹ Northeast Forestry University, China, ² Northeast Forestry University, China, ³ Forestry College of Beihua University, China
[P1.66]	Investigation on preparation and properties of wood-based luminescent materials modified by europium aromatic diacyl complexes D.W. Wang*, Q.X. Xu, S.W. Wei, S.R. Ren, G.F. Fang, Northeast Forestry University, China
[P1.67]	Preparation of Ti-Zr based conversion coating on 5052 aluminum alloy and its corrosion resistance and antifouling property H.H. Zhang ¹ , S.Y. Shen ² , X.F. Zhang ¹ , X.H. Zhao* ¹ , Y.M. Tang ¹ , Y. Zuo ¹ , ¹ Beijing University of Chemical Technology, China, ² Beijing Centre for Physical and Chemical Analysis, China
[P1.68]	Surface microstructure of Nd_{0.55}Li_{0.36}TiO₃ bulk materials and its effect on the deposition of Au film Y. Ba*, D. Ba, K. Liu, G. Du, Northeastern University, China
[P1.69]	The critical current density of NBCO films depend on the texture Of CeO₂-CAP layer with multi-plume PLD X. Wu*, L.F. Liu, Y.J. Yao, M.L. Wang, Y.J. Li, Shanghai Jiao Tong University, China
[P1.70]	High emissivity ceramic coatings formed on Ti₂AlNb alloy by microarc oxidation in a Na₂SiO₃ electrolyte incorporated with SiC J.H. Ouyang*, Y.H. Wang, Z.G. Liu, Y.M. Wang, Y.J. Wang, Harbin Institute of Technology, China
[P1.71]	Characteristics of Mo doped VO₂ thermochromic thin films deposited by reactive sputtering from Mo doped V metal target M.H. Kim*, D.U. Kim, J.H. Lee, Sungkyunkwan University, Republic of Moldova
[P1.72]	Improvement in temperature dependence and dielectric tunability properties of PbZr_{0.52}Ti_{0.48}O₃ thin films using Ba(Mg_{1/3}Ta_{2/3})O₃ buffer layer Z.W. Wu*, J.Z. Zhou, W.C. Chen, J.S. Shen, C.L. Lv, Wuhan University of Technology, China
[P1.73]	Effects of oxygen gas ratio on the properties of sputtered vanadium oxide films D.U. Kim*, M.H. Kim, J.H. Lee, Sungkyunkwan University, Republic of Korea
[P1.74]	The fabrication of Ag nano-structured thin films by template method and glancing angle deposition for use in SERS measurement X. Huang*, Y.J. Liao, J.N. Huang, S.J. Jiang, Sun Yat-sen University, China
[P1.75]	The properties of Co-doped copper nitride films deposited by reactive magnetron co-sputtering Z.P. San*, Z.W. Guo, G.R. Gu, B.J. Wu, Yanbian University, China
[P1.76]	Study of preparation and characteristics of transition metal-doped ZnO:Li thin films deposited by magnetron sputtering Y. Liu* ¹ , N. Ding ¹ , G.R. Gu ¹ , L.N. Jiang ² , B.J. Wu ¹ , L.H. Tian ¹ , ¹ Yanbian University, China, ² Jilin University, China
[P1.77]	A comparative study on microstructure, mechanical and tribological properties of the amorphous, FCC and MAX-phase Ti-Al-N thin films T.F. Zhang*, K.H. Kim, Pusan National University, Republic of Korea
[P1.78]	Stabilized copper plating method by programmed electroplated current: Accumulation of densely packed Cu grains in the interconnect L.C. Kao*, L.H.H. Hsu, S.B. Brahma, B.C.H. Huang, K.Y.L. Lo, National Cheng Kung University, Taiwan
[P1.79]	Effect of the structural components on the crack formation and strength of plasma cladding Fe-based coatings on high manganese steel Y.J. Hu, H.H. Yang*, G. Liu, Guangdong university of technology, China
[P1.80]	Tribology behaviour of the textured steel at elevated temperatures under diesel soot as additive oil Z.B. Cai* ¹ , Z.C. Zhang ¹ , M.F. Guo ¹ , M.X. Shen ² , M.H. Zhu ¹ , ¹ Southwest Jiaotong University, China, ² Zhejiang University of Technology, China

[P1.81]	Finite element analysis on temperature and stress field under different substrate preheating temperature Y.J. Hu, G. Liu*, F. Li, H.H. Yang, <i>Guangdong University of Technology, China</i>
[P1.82]	Experimental study on mechanism of influence of surface microstructures on electrowetting behavior Q.D. wang*, X.M. lu ¹ , L. ye ¹ , L. wang ² , J.M. xiao ¹ , Y.J. lv ¹ , ¹ <i>Xi'an University of Technology, China</i> , ² <i>Xi'an Jiaotong University, China</i>
[P1.83]	Experimental research of depositing AZO thin film on flexible substrate with magnetron sputtering K. Liu*, S.L. Chen, D.Y. Wang, D.C. Ba, Y.H. Xie, G.Y. Du, Y.S. Ba, <i>Northeastern University, China</i>
[P1.84]	Morphological and structural properties of ag nanofilms annealed by RTP in different atmospheres P.D. Nsimama, D. Wang, A. Herz, P. Schaaf*, <i>TU Ilmenau, Germany</i>
[P1.85]	Structure and in vitro bioactivity of ceramic coatings on magnesium alloys by microarc oxidation H.J. Yu, Q. Dong, Y.K. Pan, C.Z. Chen*, <i>Shandong University, China</i>
[P1.86]	Preparation of Si-containing oxide coating and biomimetic apatite induction on magnesium alloy H.J. Yu, Q. Dong, Y.K. Pan, C.Z. Chen*, <i>Shandong University, China</i>
[P1.87]	Influence of silicon on growth mechanism of MAO coating on cast Al-Si alloy H.J. Yu, Q. Dong, Y.K. Pan, C.Z. Chen*, <i>Shandong University, China</i>
[P1.88]	Study on process parameters affecting the geometry of micro-stripe array during Nd:YAG pulsed laser beam machining on surface of Ti-6Al-4V Titanium alloy F.B. He*, Y.D. Liang, P. Zeng, L.M. Shu, C. Fu, H.Z. Zhang, <i>Dalian University of Technology, China</i>
[P1.89]	Characterization of a modified polypropylene powder (Accurel), and its use for adsorption of common sugars from their aqueous solutions K. Singh*, A. Suman, <i>University of Lucknow, India</i>
[P1.90]	Property analysis of fouling-resistive nano-coating film on ceramic substrate according to annealing ambient Y.H. Joung*, Y. Park ² , W.S. Choi ¹ , H. Kang ¹ , H. Kim ³ , J.K. Park ¹ , B. Shan ¹ , H.J. Shin ¹ , J.Y. Han ¹ , ¹ <i>Hanbat National University, Republic of Korea</i> , ² <i>Korea Railroad Research Institute, Republic of Korea</i> , ³ <i>Wellture Finetech Inc., Republic of Korea</i>
[P1.91]	Characterization of Hydrophilic coating film for cover glass of PV module as a function of annealing temperature Y.H. Joung*, Y.S. Choi ¹ , H. Kim ² , H. Kang ¹ , W.S. Choi ¹ , J.K. Park ¹ , B. Shan ¹ , H.J. Shin ¹ , J.Y. Han ¹ , ¹ <i>Hanbat National University, Republic of Korea</i> , ² <i>Wellture Finetech Inc., Republic of Korea</i>
[P1.92]	Improved wear resistance by phase transformation of surface nanocrystalline 1090 steel prepared by sandblasting technique L. Fu*, Y. Tang ¹ , ¹ <i>Hunan University, China</i> , ² <i>PetroChina Lanzhou Lubricating Oil R & D Institute, China</i>
[P1.93]	A novel electrode material for high resistivity CdZnTe film Y.L. Zhang*, R. Xu, J. Tao, X.Y. Dai, H. Meng, J. Huang, J.J. Zhang, Y. Shen, J.H. Min, L.J. Wang, <i>School of Materials Science and Engineering, Shanghai University, China</i>
[P1.94]	Nitrogen doped p-type zinc oxide films prepared by RF magnetron sputtering J.Y. Chen ¹ , H.T. Zhang ² , G. Zhao ² , Q. Chen ² , J.S. Cherng*, ¹ <i>Mingchi University of Technology, Taiwan</i> , ² <i>Beijing Institute of Technology Communication, China</i>
[P1.95]	High-frequency effect on fretting wear of Al-Si alloy by Terfenol-D I.S. Cho*, A. Amanov ¹ , Y.H. Jeon ² , ¹ <i>Sun Moon University, Republic of Korea</i> , ² <i>Ajou University, Republic of Korea</i>
[P1.96]	Enhanced chemical reactivity of pristine and defected graphene strongly interacting with a substrate: chemisorbed CO on graphene/Ni(111) A.J. Lusuan*, ^{1,2} E. Celasco ^{1,2} , G. Carraro ^{1,2} , J. Pal ² , G. Bracco ^{1,2} , M. Smerieri ² , M. Rocca ^{1,2} , L. Savio ² , L. Vattuone ^{1,2} , ¹ <i>Università degli Studi di Genova, Italy</i> , ² <i>IMEM-CNR, UOS Genova, Italy</i>

Poster session 2
Wednesday, 29th July 2015 at 12:00-14:00

[P2.01]	Fabrication of a novel non-enzymatic hydrogen peroxide electrochemical sensor by stepwise formation of silver and reduced graphene oxide nanocomposites L. Fu ^{*1} , A.M. Yu ^{1,2} , G.S. Lai ^{1,2} , ¹ <i>Swinburne University of Technology, Australia</i> , ² <i>Hubei Normal University, China</i>
[P2.02]	Effect of the convection on TiC synthesized by mass transfer in laser-melted pool Y.H. Liu [*] , J. Li, C.G. Li, Z.S. Yu, <i>Shanghai University of Engineering Science, China</i>
[P2.03]	Enhanced performance of GaN-based light-emitting diodes with nanoporous p-GaN surface by using Ni nano masks G.F. Yang ^{*1,2} , P. Chen ² , ¹ <i>Jiangnan University, China</i> , ² <i>Nanjing University, China</i>
[P2.04]	Selective area epitaxy of monolithic white-light InGaN/GaN quantum well microstripe with dual colour emissions G.F. Yang ^{*1,2} , Z.L. Wu ¹ , P. Chen ¹ , ¹ <i>Jiangnan University, China</i> , ² <i>Nanjing University, China</i>
[P2.05]	Proton conductive montmorillonite-Nafion composite membranes for direct ethanol fuel cells X.W. Wu [*] , H.W. Ma, Z.Y. Zheng, H.B. Qi, N. Wu, C.Q. Shi, <i>China University of Geosciences, China</i>
[P2.06]	Corrosion measurement of galvanic cell type corrosion monitoring sensor in mortar specimen J. Jin-A, <i>Korea Maritime & Ocean University, Republic of Korea</i>
[P2.07]	Surface modified cellulose nanofibers as a natural dispersant of hydroxyapatite nanoparticles M. Park [*] , D. Lee, S. Shin, J. Hyun, <i>Seoul National University, Republic of Korea</i>
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[P2.09]	Is the Lippmann equation applicable to solid interface? E.M. Gutman, <i>Ben-Gurion University of the Negev, Israel</i>
[P2.10]	Structural and electrical properties of heterojunction devices formed by spinning TIPS Pentacene thin films on n-Si substrates K. Wang [*] , Y. Huang, F. Zhuang, S. Su, <i>Huaqiao University, China</i>
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[P2.13]	The crystallization of ZnO and its performance as ultraviolet sensing K.S. Kao ^{*1} , W.C. Shih ² , W.T. Ye ¹ , S.W. Fang ¹ , D.L. Cheng ¹ , ¹ <i>SHU-TE University, Taiwan</i> , ² <i>National Sun Yat-Sen University, Taiwan</i>
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[P2.26]	Ferroelectric control magnetism in P(VDF-TrFE)/Co heterostructure X.L. Zhao ^{*1,2} , J.L. Wang ¹ , Y. Zhang ³ , ¹ Shanghai Institute of Technical Physics, China, ² University of Chinese Academy of Sciences, China, ³ Ningbo Institute of Materials Technology and Engineering, China, ⁴ Hunan Institute of Engineering, China
[P2.27]	Corrosion inhibition effect of agarwood leaves extract on mild steel surface L.Y.S. Helen ^{*1,2} , S. Shironita ¹ , M. Umeda ¹ , A.A. Rahim ² , B. Saad ² , ¹ Nagaoka University of Technology, Japan, ² Universiti Sains Malaysia, Malaysia
[P2.28]	Anisotropic surface hole-transport property at triphenylamine-derivative single crystal prepared by solution method M. Umeda ^{*1} , M. Katagiri ¹ , S. Shironita ¹ , N. Nagayama ^{1,2} , ¹ Nagaoka University of Technology, Japan, ² Ricoh Company, Ltd., Japan
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[P2.31]	Nanocomposite based on SiC/Si: a new biomorphic material for maxillofacial surgery (experimental studies) M. Kartel ^{*1,4} , V. Malanchuk ² , O. Zhukovtseva ² , V. Kiselyov ³ , T. Aleksyeyeva ⁴ , W. Bo ¹ , ¹ Ningbo University of Technology, China, ² O. Bogomolets National Medical University, Kyiv, Ukraine, ³ V. Lashkaryov Institute of Semiconductor Physics, NASU, Ukraine, ⁴ O. Chuiko Institute of Surface Chemistry, NASU, Ukraine
[P2.32]	Numerical research on the surface and interface effects during the transportation of micro two-phase plug flow K. Liu ^{*1} , C.B. Liu ¹ , D.Y. Wang ¹ , D.C. Ba ¹ , Z.Y. Wu ¹ , Q. Lin ² , ¹ Northeastern University, China, ² Columbia University, USA
[P2.33]	UV radiation-induced preparation of photocatalytic core-shell nanoparticles SiO₂-ZnO in aqueous solution L. Svoboda [*] , R. Dvorský, P. Praus, J. Bednár, <i>VSB-Technical University of Ostrava, Czech Republic</i>
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[P2.35]	Correlation of tissue interface features and tumor recognition in UWB breast cancer detection employing MRI-derived model X. Xiao ¹ , L. Wang ^{*1} , T. Kikkawa ² , ¹ Tianjin University, China, ² Hiroshima University, Japan
[P2.36]	High-Performance Flexible Organic Light-Emitting Diodes Using Quasi-Period Corrugated Silver Electrodes L. Wang [*] , L. Li, Y. Luo, H. Duan, J.Y. Shao, X.N. Yang, <i>Xi'an Jiaotong University, China</i>
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[P2.38]	Investigation of severe shot peening effects on low-alloy steel to surface nanocrystallization using artificial neural network E. Maleki, <i>Sharif University of Technology-International Campus, Kish Island, Iran</i>
[P2.39]	The effect of phenylboronic acid on the processibility and thermal properties of bis-benzoxazine resins S.J. Wang [*] , Q.X. Jia, X.L. Jing, <i>Xi'an Jiaotong University, China</i>

[P2.40]	Preparation and photovoltaic properties of perovskite solar cell based on ZnO nanorod arrays with various densities Y. Xu*, T. Liu, Z.S. Li, B.J. Feng, S.Q. Li, J.X. Duan, J. Zhang, H. Wang, <i>Hubei University, China</i>
[P2.41]	Hydrothermal etching treatment to rutile TiO₂ nanorod arrays for improving the efficiency of CdS sensitized TiO₂ solar cells S.H. Chen, Y.Z. Tong, Y.X. Hu, B.Y. Wang, Y. Xu, R. Liu, J. Zhang, H. Wang*, <i>Hubei University, China</i>
[P2.42]	Micro sheet structure-based Triboelectric Nanogenerator and its application in self-powered pressure sensors with ultra-sensitivity C. Xu*, J.Y. Shao, X.L. Chen, B.B. Nie, H.M. Tian, X.M. Li, <i>Xi'an Jiao Tong University, China</i>
[P2.43]	Research on creeping discharge parameters and surface characteristics of PMMA under DC condition Y.Q. Li, C. Wang*, Q. Xie, B. Wang, X. Liu, H. Huang, F.C. Lü, X.J. Wang, <i>North China Electric Power University, China</i>
[P2.44]	In-situ observation of Au thin film nanostructuring on SiO₂ glass substrate during nanosecond-pulsed laser irradiation R.X. Yu*, T. Shibayama, Y.H. Lei, S. Yatsu, J. Ishioka, S. Watanabe, <i>Hokkaido University, Japan</i>
[P2.45]	Effect of silicon level on the oxidation resistance of a cobalt-base superalloy at 1050-1250 °C S. Wu, Y. Dong*, L. Liu, L. Lin, <i>Huazhong University of Science and Technology, China</i>
[P2.46]	Effect of annealing temperature on optical properties of 1.05eV InGaAsP material grown by molecular beam Epitaxy W.X. Yang*, S.L. Lu, L. Ji, M. Tan, Y.Y. Wu, P. Dai, J.Y. Lu, J. Gu, B.J. Li, <i>Chinese Academy of Sciences (CAS), China</i>
[P2.47]	The structure and interfacial interaction effect on photocatalytic property of bismuth ferrite/graphene (N-doped graphene) composites Q. Chen, Y.Y. Lin, P. Li*, G. Chang, Y.B. He, <i>Hubei University, China</i>
[P2.48]	Pure green photosynthesis of 2-quinoline carboxamide on a bifunctional catalyst TiO₂/AC-SO₃H with strong acidity B.J. Ma*, H. Xie, K.Y. Lin, J. Li, H.J. Xu, W.Y. Liu, <i>Ningxia University, China</i>
[P2.49]	Sensitive MMP-9 detectable microfluidic device based on peptide immobilized PS/PSMA Electrospun Nanofiber S. Han*, M. Kim, K. Cho, B. Yun, W.G. Koh, <i>Yonsei University, Republic of Korea</i>
[P2.50]	High performance breath sensor based on PEDOT:PSS bridged nanogap electrodes B.B. Nie*, J.Y. Shao, Q. Zhao, C. Xu, L. Liu, H.M. Tian, X.M. Li, <i>Xi'an Jiaotong University, China</i>
[P2.51]	Dissolved oxygen reduction on the surface tethered weak polyelectrolyte modified electrode W. Liu ^{4,3} , L. Meng ^{4,3} , B.E. Lv ¹ , Y.Y. Chen ² , H.W. Ma ² , J. Gang ⁴ , Y. Niu ⁴ , ¹ Siegen University, Germany, ² Suzhou Institute of Nano-Tech and Nano-Bionics, China, ³ University of Chinese Academy of Sciences, China, ⁴ Institute of Mechanics, China
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[P2.55]	Preparation of titanium dioxide films on etched aluminum foil by vacuum infiltration method and anodizing L. Xiang*, S. Park, <i>Kyungpook National University, Republic of Korea</i>
[P2.56]	High efficient Ni/Vermiculite catalyst prepared via dielectric barrier discharge plasma for CO methanation B. Dai, P. Li, B. Wen, D. Chen, M. Zhu, Y. Han, X. Huang, J. Dan, F. Ouyang, F. Yu*, <i>Shihezi University, China</i>
[P2.57]	Effect of hydrogen uptake on the electrochemical corrosion of N18 zircaloy under gamma irradiation Z.Y. Xin ^{*1} , Y.H. Ling ¹ , Y.K. Bai ¹ , X. Dai ² , R.Q. Zhang ² , ¹ Tsinghua University, China, ² Nuclear Power Institute of China, China
[P2.58]	Fabrication and sulfurization of the Cu₂SnS₃ thin film by tuning of different concentration Cu-Sn-S precursor nanoink A. Wang ^{*1} , A. Chang ¹ , A-B. Shei ² , ¹ National Cheng Kung University, Taiwan, ² National University of Tainan, Taiwan
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[P2.61]	A controllable interface strength in composites through varying ZnO nanowires morphology on carbon fiber B.W. wang*, Y.D. Duan, J.Z. Zhang, <i>Xi'an Jiaotong University, China</i>
[P2.62]	Preparation of tungsten doped tin dioxide thin film transistors J.W. Yang*, T. Meng, Z. Yang, Y.B. Han, Q. Zhang, <i>Fudan University, China</i>
[P2.63]	Ultralow reflectivity crystalline Si surfaces by formation of nanocrystalline Si layer and application to polycrystalline Si solar cells D. Irishika*, K. Imamura, H. Kobayashi, <i>Osaka university, Japan</i>
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[P2.68]	The study of the adhesive force between a single simulated lunar dust and the ordered nanoporous matrix film W. Dong*, X. Jiang, Q. Wang, <i>Nanjing University, China</i>
[P2.69]	Hydrogen generation by reaction of Si nanoparticles fabricated from Si swarf with water K. Kimura* ¹ , T. Matsumoto ¹ , Y. Kanatani ² , T. Higo ² , H. Kobayashi ¹ , ¹ Osaka university and CREST JST, Japan, ² Nisshin kasei co,Ltd., and CREST JST, Japan
[P2.70]	Retardancy of alumina nanoporous thin films in visible and near infrared spectral region V. Dlugunovich ¹ , A. Zhumar ¹ , N. Mukhurov* ¹ , I. Gasenkova ¹ , M. Binhusain ² , ¹ B.I.Stepanov Institute of Physics of National Academy of Sciences of Belarus, Belarus, ² The National Center of Building Systems, KACST, Saudi Arabia
[P2.71]	Photoluminescence of localized excitons in ZnCdO thin films grown by molecular beam epitaxy T.Y. Wu ¹ , Y.S. Huang* ¹ , Y.C. Lee ² , S.Y. Hu ³ , C.C. Chang ¹ , W.C. Chou ⁴ , J.L. Shen ⁵ , C.H. Wu ¹ , ¹ National Taiwan Ocean University, Taiwan, ² Tungnan University, Taiwan, ³ Tungfang Design University, Taiwan, ⁴ National Chiao Tung University, Taiwan, ⁵ Chung Yuan Christian University, Taiwan
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[P2.76]	Plasmonic properties of Ag random columnar thin films as highly sensitive SERS biosensor Y-J. Liao*, X. Huang, S-J. Jiang, <i>Sun Yat-sen University, China</i>
[P2.77]	Reconstruction of GaAs/AlAs superlattice multilayered structure by quantification of AES and SIMS sputter depth profiles H.L. Kang ¹ , J.B. Lao ¹ , Z.P. Li ² , W.Q. Yao ² , C. Liu ³ , J.Y. Wang* ¹ , ¹ Shantou University, China, ² Tsinghua University, China, ³ Institute of Semiconductors of the Chinese Academy of Sciences, China
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[P2.80]	Preparation and photoelectrochemical properties of Multilayered WS₂ Coated TiO₂ Nanocomposites for Enhanced Photocatalytic Activities R.T. Lu, K. Du, G.H. Liu*, K.Y. Wang, <i>Buskerud and Vestfold University College, Norway</i>
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[P2.88]	Investigation of the optical properties of Cu/Ni multilayer nanowires embodied in the ion-track template L. Xie*, H.J. Yao, J.L. Duan, D. Mo, H.Y. Chen, J. Liu, Y.M. Sun, <i>Chinese Academy of Sciences, China</i>
[P2.89]	Simultaneously measurement of thermo-electrical properties of thin film materials by a new homemade microscale device A.M. Melhem, N.S. Semmar*, <i>GREMI-UMR-7344-CNRS-University of Orléans, France</i>
[P2.90]	Characterization of curve surface layer by Mueller matrix ellipsometry W.Q. Li*, S.Y. Liu, H. Jiang, C.W. Zhang, X.G. Chen, <i>Huazhong University of Science and Technology, China</i>
[P2.91]	An in-situ XPS and STM study on the thermal stability of Sm nanoparticles on the Al₂O₃ thin film substrate Q. Xu*, S.W. Hu, J.F. Zhu, <i>University of Science and Technology of China, China</i>
[P2.92]	Enhanced photoluminescence from CdS with SiO₂ nanopillar arrays L.W. Li ^{*1,2} , W.S.L. wang ^{1,2} , H.S.F. He ^{1,2} , W.J. Wang ^{1,2} , G.Y.Y. Guo ^{1,2} , ¹ Nanjing University of Posts and Telecommunications, China, ² Key Laboratory of Radio Frequency and Micro-Nano Electronics of Jiangsu Province, China
[P2.93]	Potential adsorption of Pyridine (Py) - onto powdered activated mustard cake (PAMC): Kinetics and equilibrium adsorption stud K. Singh*, B. Chandra, <i>University of Lucknow, India</i>
[P2.94]	The effect of nitrogen partial pressure on the microstructures and mechanical properties of AlCrN coating deposited on the surface of plasma nitrocarburized cool-work steels J. Zheng*, W.L. Chen, S.H. Zhang, <i>Anhui University of Technology, China</i>
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