

Poster Programme

Poster Session-1

Tuesday, 13th June 2017

16:20-18:30

[P001]	Synthesis and characterization of nano-sized microwave absorbing material to reduce the electromagnetic pollution I. Sadiq*, S. Naseem, S. Riaz, M. Rana, <i>University of the Punjab, Pakistan</i>
[P002]	H₂O adsorption and dissociation on M-doped CeO₂ (111) (M= Mn, Fe) Surfaces: A computational study Y.H. Lu ¹ , S.P. Ju ² , H.T. Chen* ¹ , ¹ <i>Chung Yuan Christian University, Taiwan</i> , ² <i>National Sun Yat-Sen University, Taiwan</i>
[P003]	Restructuring of SiO₂ under high pressure oxidation of 2D macroporous silicon L. Karachevtseva* ^{1,2} , M. Kartel ¹ , V. Kladko ² , O. Gudymenko ² , W. Bo ¹ , K. Parshyn ² , O. Stronska ² , ¹ <i>Ningbo University of Technology, China</i> , ² <i>V. Lashkaryov Institute of Semiconductor Physics, Ukraine</i>
[P004]	Optimization of carbon coatings on NiS₂ nanoparticles for high specific capacity thermal batteries C.Y. Jin, X.X. Lin, L.C. Fu, J.J. Zhu, D.Y. Li, W.L. Yang, L.P. Zhou*, <i>Hunan University, China</i>
[P005]	Growth path of secondary phases in the CZTSe film with various Zn/Sn ratio Y.C. Lin* ¹ , L.C. Wang ¹ , H.R. Hsu ² , ¹ <i>National Changhua University of Education, Taiwan</i> , ² <i>Industrial Technology Research Institute, Taiwan</i>
[P006]	Influence of rapid thermal annealing on the properties of boron and gallium co-doped ZnO films by RF magnetron sputtering Y.X. Lu*, J. Huang, B. Li, K. Tang, M. Cao, L.J. Wang, <i>Shanghai University, China</i>
[P007]	Effect of dopant concentration on properties of boron and gallium co-doped ZnO films B. Li*, J. Huang, Y.X. Lu, K. Tang, M. Cao, Y. Hu, L.J. Wang, <i>Shanghai University, China</i>
[P008]	A B and Ga co-doped ZnO intermediate layer for ZnO/Si heterojunction diodes Y.X. Lu*, J. Huang, B. Li, K. Tang, Y. Hu, L.J. Wang, <i>Shanghai University, China</i>
[P009]	Highly soluble diamond nano-particles pre-treatment for diamond films on silicon S.J. Zhao*, J. Huang, B. Ren, K. Tang, L.J. Wang, <i>Shanghai University, China</i>
[P010]	The investigation of doped-ZnO as an interlayer for ohmic contact to CdZnTe films Y.B. Shen*, J. Huang, K. Tang, Q.M. Gu, Y. Shen, J.J. Zhang, L.J. Wang, <i>Shanghai University, China</i>
[P011]	The influence of transparent conductive ZnO thin layer on performance of CdZnTe photodetectors K. Tang*, J. Huang, B. Li, Y.B. Shen, Q.M. Gu, Y.T. Wang, L.J. Wang, <i>Shanghai University, China</i>
[P012]	Transparent zinc oxide thin-film photodetectors K. Tang*, J. Huang, Y.T. Wang, B. Li, Y.X. Lu, L.J. Wang, <i>Shanghai University, China</i>
[P013]	The effect of deposition pressure on properties of CdZnTe films prepared by close-spaced sublimation Y.B. Shen*, J. Huang, Q.M. Gu, K. Tang, Y. Shen, J.J. Zhang, L.J. Wang, <i>Shanghai University, China</i>
[P014]	Growth mechanism of tin whiskers driven by electric current C.E. Ho ¹ , W.Z. Hsieh* ¹ , C.S. Ku ² , P.T. Lee ¹ , C.H. Yang ¹ , C.C. Hsu ¹ , ¹ <i>Yuan Ze University, Taiwan</i> , ² <i>National Synchrotron Radiation Research Center, Taiwan</i>
[P015]	Direct evidence of the pinhole formation mechanism in electroplated Cu films through field-emission transmission electron microscopy characterization C.E. Ho ¹ , P.T. Lee* ¹ , C.C. Chen ¹ , H.C. Liu ² , C.H. Yang ¹ , W.Y. Shih ¹ , ¹ <i>Yuan Ze University, Taiwan</i> , ² <i>Kinsus Interconnect Technology Co., Taiwan</i>
[P016]	Liquid phase plasma synthesis of iron oxide nanoparticles on nitrogen-doped activated carbon for supercapacitors application S.C. Jung* ¹ , H. Kim ¹ , B.H. Kim ² , ¹ <i>Sunchon National University, Republic of Korea</i> , ² <i>Chosun University, Republic of Korea</i>
[P017]	Properties of CdZnTe films on different substrates Q.M. Gu*, J. Huang, Y.B. Shen, K. Tang, Y. Shen, J.J. Zhang, L.J. Wang, <i>Shanghai University, China</i>
[P018]	Characteristics of ALD-Grown Multilayer Channel Thin-Film Transistors H.J. Li*, D.D. Han, Z. Yi, J.C. Dong, G.D. Cui, L.Q. Liu, X. Zhang, Y. Wang, <i>Peking University, China</i>
[P019]	Isothermal oxidation behavior of Zr-Y coating on γ-TiAl by double-glow plasma surface metallurgy technique F. Ding*, P.Z. Zhang, D.B. Wei, X.F. Wei, X.H. Chen, Y.C. Liu, <i>Nanjing University of Aeronautics and</i>

	<i>Astronautics, China</i>
[P020]	Effect on electronic structure of La-doped bilayer graphene with different doping methods X.M. Zhang*, D.D. Han, Z. Luo, J.C. Dong, Y. Wang, <i>Peking University, China</i>
[P021]	Thickness effects of the homo-MgO film and their influence on the CeO₂ buffer layer W. Wang*, L.F. Liu, S.D. Lu, Y.J. Yao, X. Wu, B.B. Wang, Y.J. Li, <i>Shanghai Jiao Tong University, China</i>
[P022]	Electrical and thermal properties of Cu-Ta films prepared by magnetron sputtering W. Qin*, L. Fu, J. Zhu, W. Yang, D. Li, L. Zhou, <i>Hunan University, China</i>
[P023]	Composition and Structure Evolution of Bi₂O₃ Coatings as Efficient Photocatalysts L.J. Cheng* ¹ , X.M. Hu ¹ , L. Hao ¹ , Y. Lu ² , ¹ Tianjin University of Science & Technology, China, ² Chiba University, Japan
[P024]	Investigation of Al doping in active layers for ZnO thin film transistors J. Dong*, D. Han, W. Yu, H. Li, Z. Luo, Y. Liang, X. Zhang, Y. Wang, <i>Peking University, China</i>
[P025]	Plasma-assisted synthesis of hydrogenated TiO₂ for energy storage and conversion Y. Yan* ¹ , G. Chen ² , D. Wang ³ , P. Schaaf ³ , ¹ Nanjing University of Science and Technology, China, ² Beijing University of Technology, China, ³ TU Ilmenau, Germany
[P026]	Thromboresistance and in vitro biocompatibility with Mesenchymal Stem Cells of Ti-Ta -based surface alloy fabricated on TiNi SMA by pulsed electron-beam melting of film/substrate system E.Y. Gudimova* ^{1,5} , V.A. Matveeva ⁴ , S.N. Meisner ¹ , A.L. Matveev ⁴ , E.V. Yakovlev ² , L.L. Meisner ^{1,5} , A.B. Markov ² , V.P. Rotshtein ^{1,3} , O.I. Shabalina ^{1,5} , ¹ Institute of Strength Physics and Materials Science, Russia, ² Institute of High Current Electronics, Russia, ³ Tomsk State Pedagogical University, Russia, ⁴ Institute of Chemical Biology and Fundamental Medicine, Russia, ⁵ National Research Tomsk State University, Russia
[P027]	The evolution of hardness and evaluating modulus in Cu–W alloy thin films T.L. Xie*, L.P. Zhou, L.C. Fu, J.J. Zhu, D.Y. Li, W.L. Yang, <i>Hunan University, China</i>
[P028]	Synthesise and characterise ZnO thin film to model the effect of its defects on ZnO/Cu₂O solar cell performance S. Chala*, N. Sengouga, F. Yakuphanoglu, <i>University of Biskra, Algeria</i>
[P029]	Reactivity of defect-free and vacancy-containing hexagonal graphene nanoclusters according to quantum chemistry approach M. Kartel* ^{1,2} , O. Karpenko ¹ , V. Lobanov ¹ , W. Bo ² , ¹ O. Chuiko Institute of Surface Chemistry, NASU, Ukraine, ² Ningbo University of Technology, China
[P030]	Graphene nanoparticles, its solid films and filled polymers Y. Sementsov* ^{1,2} , M. Kartel ^{1,2} , S. Mahno ² , G. Dovbeshko ³ , S. Nedilko ⁴ , V. Styopkin ³ , Y. Barabash ³ , W. Bo ¹ , ¹ Ningbo University of Technology, China, ² O. Chuiko Institute of Surface Chemistry, NASU, Ukraine, ³ NASU, Ukraine, ⁴ Taras Shevchenko Kyiv National University, Ukraine
[P031]	Modification of polyamides by nanostructured carbon materials M. Kartel* ^{1,2} , Y. Sementsov ^{1,2} , V. Trachevskiy ^{1,3} , W. Bo ¹ , ¹ Ningbo University of Technology, China, ² O. Chuiko Institute of Surface Chemistry, NASU, Ukraine, ³ National Aviation University, Ukraine
[P032]	Preparation of e-beam deposited boron-rich films on diamond film substrates S.J. Zhao*, J. Huang, K. Tang, Y.X. Lu, B. Ren, L.J. Wang, <i>Shanghai University, China</i>
[P033]	Dual-stimuli responsive thiol-epoxy polymeric coating system T.H. Lee* ^{1,2} , Y.K. Song ¹ , S.H. Park ¹ , Y.I. Park ¹ , J.H. Nam ¹ , S.M. Noh ¹ , J.C. Kim ¹ , ¹ KRICT, Republic of Korea, ² UNIST, Republic of Korea
[P034]	Cavate nanometer Zn-Ti-O composite photocatalysts X-W. Wu*, Y. Yang, C-Q. Shi, J. Xing, Z-J. Chen, <i>China University of Geosciences, Beijing, China</i>
[P035]	Coffee extract as anti-aging compound for polylactide K. Moraczewski* ¹ , M. Stepczynska ¹ , R. Malinowski ² , B. Jagodzinski ¹ , B. Budner ³ , T. Karasiewicz ¹ , P. Rytlewski ¹ , ¹ Kazimierz Wielki University, Poland, ² Institute for Engineering of Polymer Materials and Dyes, Poland, ³ Institute of Optoelectronics Military University of Technology, Poland
[P036]	Plasma surface tantalum alloying on pure titanium and its corrosion behaviour in sulfuric acid and hydrochloric acid D.B. Wei*, P.Z. Zhang, Z.J. Yao, X.F. Wei, X.H. Chen, F. Ding, <i>Nanjing University of Aeronautics and Astronautics, China</i>
[P037]	Effect of C addition on the corrosion properties of amorphous Fe-based soft magnetic alloys X. Li* ¹ , X. Zhao ¹ , L. Yu ¹ , F. Liu ¹ , Y.X. Wang ² , ¹ University of Shanghai for Science and Technology, China, ² Jiangsu University of Science and Technology, China
[P038]	Broadband photoluminescence of multiple europium-doped phosphor species deposited on silicon solar

	<p>cells to enhance photovoltaic performance W.J. Ho, Y.T. Shen, B.J. You, Z.X. Lin, J.J. Liu*, C.H. Ho, <i>National Taipei University of Technology, Taiwan</i></p>
[P039]	<p>Photovoltaic performance improvement of silicon solar cell based on plasmonic scattering of silver nanoparticles and spectral conversion of europium-doped phosphors S.K. Feng, W.J. Ho, Y.C. Yang, J.J. Liu*, C.H. Ho, <i>National Taipei University of Technology, Taiwan</i></p>
[P040]	<p>Characterization of photovoltaic performance of textured silicon solar cells using MAPbBr₃ perovskite luminescent down-shifting nanophosphors G.Y. Li, W.J. Ho, Z.X. Lin, B.J. You, J.J. Liu*, C.H. Ho, <i>National Taipei University of Technology, Taiwan</i></p>
[P041]	<p>Development of multi-spectral tomographic Mueller matrix microscopy for the characterization of two-dimensional materials C. Chen*, X.G. Chen, J. Chen, H. Jiang, C.W. Zhang, S.Y. Liu, <i>Huazhong University of Science and Technology, China</i></p>
[P042]	<p>Electrical properties of graphene based materials on optoelectronic applications I. Karteri, S. Chala*, M. Günes, <i>University of Biskra, Algeria</i></p>
[P043]	<p>Electromagnetic interference shielding properties of the polymer based nanocomposites with graphene I. Karteri, S. Chala*, M. Günes, <i>University of Biskra, Algeria</i></p>
[P044]	<p>Surface properties of InGaN grown on sapphire by migration-enhanced plasma assisted metal organic chemical vapor deposition Z.C. Feng*¹, Y. Li¹, Y. Chen¹, S-Y. Huang², D. Seidlitz³, N. Dietz³, R-H. Horng⁴, D-S. Wu⁵, L. Wan¹, ¹Guangxi University, China, ²Da-Yeh University, Taiwan, ³Georgia State University, USA, ⁴National Chiao Tung University, Taiwan, ⁵National Chung Hsing University, Taiwan</p>
[P045]	<p>X-ray photoelectron spectroscopy of crystalline MgZnO thin films on sapphire under different growth temperatures by metal organic chemical vapor deposition L. Wan*¹, F. Wang¹, X. Luo¹, D. Xie², Z.R. Qiu³, H.R. Horng⁴, D.S. Wu⁵, X. Lu¹, Q. Yang¹, Z.C. Feng¹, ¹Guangxi University, China, ²South China Normal University, China, ³Sun Yat-Sen University, China, ⁴National Chiao Tung University, Taiwan, ⁵National Chung Hsing University, Taiwan</p>
[P046]	<p>X-ray photoelectron spectroscopy of AlN thin films grown on different face sapphire substrates by metalorganic chemical vapor deposition Z.C. Feng*¹, H. Liu¹, S. Lin¹, Z.R. Qiu², C-C. Tin³, Z.C. Feng¹, ¹Guangxi University, China, ²Sun Yat-Sen University, China, ³Auburn University, USA</p>
[P047]	<p>Mn Doping Modulated the Ferroelectric Photovoltaic Effect in Lead-free K_{0.5}Na_{0.5}NbO₃ Films Y.Z. Sun*, R.N. Tian, Z.H. Tang, S.F. Zhao, <i>Inner Mongolia University, China</i></p>
[P048]	<p>Size effect of fracture behaviour of nano-Al/Si₃N₄ multilayer under three points bending M. Wang*¹, D. Wang², P. Schaaf², ¹Liaoning Technical University, China, ²Ilmenau University of Technology, Germany</p>
[P049]	<p>Texture and optical property of Sn doping Ge₂Sb₂Te₅ thin films Q. Yin*, L. Chen, <i>University of Science and Technology Beijing, China</i></p>
[P050]	<p>Development of dextran interface layer for label-free biosensing S. Kurunczi*, A. Saftics, B. Türk, R. Horváth, <i>MTA EK MFA, Hungary</i></p>
[P051]	<p>Surface functionalization of iron sand magnetic material coated silica with chitosan using coupling agent 3-chloropropyltrimethoxysilane and adsorption of Au(III) N. Nuryono*, B. Rusdiarso, D. Miswanda, <i>Universitas Gadjah Mada, Indonesia</i></p>
[P052]	<p>Coating of 2-mercaptobenzimidazole modified silica on iron sand magnetic material for adsorption of Au(III) N. Nuryono*¹, M. Karbeka², S. Suyanta¹, ¹Universitas Gadjah Mada, Indonesia, ²Universitas Tribuana Kalabahi, Indonesia</p>
[P053]	<p>Effect of different forms of Silica Purified from volcanic ash in TiO₂/SiO₂ preparation on the characters and the photocatalytic activity E.T. Wahyuni*, H. Puspadiman, M. Mudasir, S. Suherman, G.Y. Krisnanti, <i>Gadjah Mada University, Indonesia</i></p>
[P054]	<p>Synthesis, dispersion and tribological potential of alkyl functionalized graphene oxide for oil-based lubricant additives J.Y. Choe*, Y.J. Kim, C-S. Lee, <i>Keimyung University, Republic of Korea</i></p>
[P055]	<p>Characteristics and electrochemical performance of silica coated carbon nanocoils composite as an anode material for lithium secondary batteries E. Hwang*, S. Kim, H-K. Park, C-S. Lee, <i>Keimyung University, Republic of Korea</i></p>
[P056]	<p>Synthesis and characterization of graphene-enclosed mesoporous TiO₂ microsphere as anode material for</p>

	Li secondary batteries H. Jamal*, H-K. Park, C-S. Lee, <i>Keimyung University, Republic of Korea</i>
[P057]	Microstructural evaluation of concrete surface skin using micro-computed tomography (micro-CT) L. Sadowski*, D. Stefaniuk, <i>Wrocław University of Science and Technology, Poland</i>
[P058]	Layout designs of surface barrier coatings for boosting the capability of oxygen/vapour obstruction utilized in flexible electronics C.C. Lee* ¹ , J.Y. He ¹ , P.C. Huang ¹ , H.C. Liu ² , ¹ <i>National Chung Hsing University, Taiwan</i> , ² <i>Chung Yuan Christian University, Taiwan</i>
[P059]	Surface damage mitigation of TC4 alloy via micro arc oxidation for oil and gas exploitation application: characterizations of microstructure and evaluations on surface performance R.Z. Xie*, P. Zhou, J.J. Zou, N.M. Lin, Z.X. Wang, Z.H. Wang, B. Tang, <i>Taiyuan University of Technology, China</i>
[P060]	Cluster-assembled SmCo granular films with strong magnetostriction derived from magnetic single domain structures Y.L. Bai*, X. Wu, F. Guo, S.F. Zhao, <i>Inner Mongolia University, China</i>
[P061]	Experimental Measurements and Simulated Estimations for the Interfacial Adhesion Between Glass Interposer and SiN_x Coatings C.C. Lee* ¹ , J.Y. He ¹ , P.C. Huang ¹ , H.C. Liu ² , ¹ <i>National Chung Hsing University, Taiwan</i> , ² <i>Chung Yuan Christian University, Taiwan</i>
[P062]	Fabricating high gap-filling Cu films on trenched Ru/p-SiOCH/Si Substrates using pulse Pb-UPDs J.S. Fang* ¹ , J.Y. Wong ¹ , Y.L. Cheng ² , G.S. Chen ³ , ¹ <i>National Formosa University, Taiwan</i> , ² <i>National Chi-Nan University, Taiwan</i> , ³ <i>Feng Chia University, Taiwan</i>
[P063]	Enhanced electrocatalytic activity on water splitting with NiO_x nanoflakes electrode fabricated via selective etching and reconstruction of NiW amorphous films S. Yu* ¹ , Q. Fei ¹ , Y. Ling ¹ , Y. Gu ² , ¹ <i>Tsinghua University, China</i> , ² <i>Beijing Institute of Petrochemical technology, China</i>
[P064]	Methane hydrate formation and dissociation in the presence of different cyclopentane (CP) and tetra-n-butyl ammonium bromide (TBAB) solution. C. Jaikwang* ¹ , P. Rangsunvigit ^{1,2} , S. Kulprathipanja ^{1,3} , ¹ <i>Chulalongkorn University, Thailand</i> , ² <i>Center of Excellence on Petrochemical and Materials Technology, Thailand</i> , ³ <i>UOP, A Honeywell Company, USA</i>
[P065]	Synthesis of bilayer films for photocatalytic degradation of isopropanol in the absence of light R. Jarumanee* ¹ , P. Rangsunvigit ¹ , P. Ngaotrakanwivat ^{1,2} , ¹ <i>Chulalongkorn University, Thailand</i> , ² <i>Burapha University, Thailand</i>
[P066]	Layer-by-layer assembly of polydopamine-assisted alkanethiolate coating on stainless steel for corrosion protection Y.H. Lei* ¹ , S.T. Sun ¹ , S.G. Chen ² , X.T. Chang ¹ , T. Liu ¹ , L.H. Dong ¹ , ¹ <i>Shanghai Maritime University, China</i> , ² <i>Ocean University of China, China</i>
[P067]	MOCVD growth of the nano-scaled InAs film on the GaAs/Ge heterostructure without any buffer layer H.W. Yu*, D. Anandan, Y.T. Ho, E.Y. Chang, <i>National Chiao Tung University, Taiwan</i>
[P068]	Comparison of O₂ Plasma Treatment on Porous Low Dielectric Constant Material in Sidewall and Bottom of Trench Structure Y.L. Cheng* ¹ , B.H. Lin ¹ , C.Y. Lee ¹ , G.S. Chen ² , J.S. Fang ³ , ¹ <i>National Chi-Nan University, Taiwan</i> , ² <i>Feng Chia University, Taiwan</i> , ³ <i>National Formosa University, Taiwan</i>
[P069]	Investigating the transition energy of graphene with different layers by spectroscopic Mueller matrix ellipsometry B. Song* ¹ , H. Gu ¹ , H. Jiang ¹ , X. Chen ¹ , C. Zhang ^{1,2} , S. Liu ^{1,2} , ¹ <i>Huazhong University of Science and Technology, China</i> , ² <i>Wuhan Optics Technology Co. Ltd., China</i>
[P070]	Effect of metal film thickness and various solvents on the SPR biosensor sensitivity for illegal compound detection S. Suherman* ¹ , K. Morita ² , T. Kawaguchi ³ , ¹ <i>Universitas Gadjah Mada, Indonesia</i> , ² <i>Ushio Co., Japan</i> , ³ <i>Hokkaido University, Japan</i>
[P071]	Effect of amino-functionalized nano-silica on the thermal stability of acrylamide based polymer in solution T. Song* ^{1,2} , Y. Zhu ¹ , S. Wang ¹ , D. Fei ² , Y. Wang ² , J. Cao ^{1,2} , ¹ <i>State Key Laboratory of Offshore Oil Exploitation, China</i> , ² <i>China University of Petroleum (East China), China</i>
[P072]	Characterization of all-solid-state batteries with LiPON thin films obtained with different RF sputtering process C.M. Zhang ¹ , X. Ji* ² , L.J. Wang ¹ , ¹ <i>Shanghai University, China</i> , ² <i>Shanghai University of Engineering Science, China</i>

	<i>China</i>
[P073]	Structure, morphology and electrochemical property of LiPON thin films grown on different substrates for all-solid-state batteries C.M. Zhang* ¹ , X. Ji ² , L.J. Wang ¹ , ¹ Shanghai University, China, ² Shanghai University of Engineering Science, China
[P074]	Severe Laser Shock Peening Induced Surface Nano-Crystallization and Its Characteristics of Ti-6Al-4V Alloy V. Sandeep* ¹ , J. Yash ¹ , S. Prabhakaran ¹ , S. Kalainathan ¹ , S. Pratik ² , ¹ VIT University, Vellore, India, ² Conventry University, Coventry, UK
[P075]	Surface, Microstructure and Mechanical Properties of Warm Laser Shock Peening Enhanced Al-2024-O Alloy J. Yash* ¹ , V. Sandeep ¹ , S. Prabhakaran ¹ , S. Kalainathan ¹ , S. Pratik ² , ¹ VIT University, Vellore, India, ² Conventry University, Coventry, UK
[P076]	Effects of hot air treatment on properties of titanium dioxide nanoparticles films prepared by sparking process A. Panthawan* ¹ , T. Kumpika, W. Sroila ¹ , E. Kantarak ¹ , P. Sanmuangmoon ¹ , O. Wiran ¹ , W. Thongsuwan ¹ , P. Singjai ¹ , ¹ Chiang Mai university, Thailand
[P077]	Influence of Si addition on the structure, thermal stability and oxidation resistance of nc-AlTiN/a-Si₃N₄ hard coatings P. Zackova* ¹ , M. Harsani ¹ , M. Sahul ¹ , M. Drienovsky ¹ , M. Mikula ² , M. Truchly ² , M. Caplovicova ³ , L. Caplovic ¹ , ¹ Slovak University of Technology, Slovakia, ² Comenius University, Slovakia, ³ Slovak University of Technology, Slovakia
[P078]	Hydrophobic surface modification of acrylonitrile-styrene-acrylate (ASA) terpolymer by stearic acid and metallic soap lubricants: surface characterization Y. Qi*, T. Chen, J. Zhang, Nanjing Tech University, China
[P079]	Investigation of grain growth in L1₀-FePt thin films W. Li*, L. Chen, University of Science and Technology Beijing, China
[P080]	Buffer confined microstructure and interdiffusion in Co/Cu/Co trilayers during annealing X.W. Peng*, L. Chen, University of Science and Technology Beijing, China
[P081]	Effect of compatibilizer on the structure and properties of acrylonitrile-butadiene-styrene terpolymer/poly(ethylene glycol-co-1,4-cyclohexanedimethanol terephthalate) blends T. Chen*, J. Zhang, Nanjing Tech University, China
[P082]	Determination of temperature distribution during laser alloying process with the use of FEM analysis A. Sliwa, M. Bonek*, Silesian University of Technology, Poland
[P083]	A DFT study of Rh clusters on defective SWCNT and graphene R.E. Ambrusi, C.R. Luna, M. Sandoval, P. Bechthold, M.E. Proncato, A. Juan*, IFISUR-UNS-CONICET, Argentina
[P084]	Formation of qualified BaHfO₃ doped Y_{0.5}Gd_{0.5}Ba₂Cu₃O_{7-δ} film on CeO₂ buffered IBAD-MgO tape by self-seeding pulsed laser deposition L. Liu*, W. Wang, Y.J. Yao, X. Wu, S.D. Lu, B.B. Wang, Y.J. Li, Shanghai Jiao Tong University, China
[P085]	The influence of sand and glass blasting on the passive layer characteristic on lean duplex stainless steels Z. Brytan*, T. Tanski, T. Linek, Silesian University of Technology, Poland
[P086]	The corrosion studies of electron beam welded nickel alloy Z. Brytan* ¹ , E. Jonda ¹ , M. Weglowski ^{1,2} , T. Tanski ¹ , ¹ Silesian University of Technology, Poland, ² Institute of Welding, Poland
[P087]	Selective leaching and surface properties of Cu-Al-Ni shape memory alloys C. Kuo*, Y.C. Hsiao, Y.T. Tsao, W.J. Chan, B.Y. Huang, J.L. Han, S.H. Chang, Department of Chemical and Materials Engineering, National I-Lan University, Taiwan
[P088]	Surface and anticoagulant characteristics of the 316L stainless steel modified by polycaprolactone films Y.C. Hsiao*, Y.T. Tsao, C. Kuo, W.J. Chan, B.Y. Huang, S.H. Chang, Department of Chemical and Materials Engineering, National I-Lan University, Taiwan
[P089]	Anticoagulant properties of the 316L stainless steel modified by polylactic acid/chitosan composite films Y.T. Tsao*, S.H. Chang, W.C. Chan, National I-Lan University, Taiwan
[P090]	P-type 2D MoS₂ synthesised by co-sputtering and post sulfurization Y.T. Ho* ¹ , H.W. Yu ¹ , Y.C. Chu ¹ , L.L. Wei ¹ , T.T. Luong ¹ , C.C. Lin ² , C.H. Cheng ² , Y.Y. Tu ¹ , E.Y. Chang ¹ , ¹ National Chiao Tung University, Taiwan, ² National Cheng Kung University, Taiwan
[P091]	Enhancement of mechanical strength associated with interfacial tension between acrylonitrile-butadiene

	rubber and barium strontium titanate by surface modification S. Zhu*, W. Zhang, J. Zhang, <i>Nanjing Tech University, China</i>
[P092]	Enhancing polarization of polyvinylidene fluoride film by reduced graphene oxide addition J. Lee*, S. Lim, <i>Yonsei University, Republic of Korea</i>
[P093]	Effect of substrate surface condition on the growth of MoS₂ thin film S. Lee*, S. Lim, <i>Yonsei University, Republic of Korea</i>
[P094]	Comparison of DIO₃ and UVO₃ cleaning for Ru-capped EUV photomask C. Son*, S. Lim, <i>Yonsei university, Republic of Korea</i>
[P095]	Fabrication of three-dimensional cell culture system by using surface modified gelatin microparticles Y. Jeong*, H. Park, <i>University, Republic of Korea</i>
[P096]	Conjugation of itaconic acid on PDMS surface for inhibition of microbial infection. H. Cho*, Y. Seo, J. Choi, H. Park, <i>Chung-ang University, Republic of Korea</i>
[P097]	The cell adhesion effect of surface charge of GMPs in cell/particle spheroid Y. Kim* ¹ , P. Baipaywad ¹ , S.H. Lee ² , H. Park ¹ , ¹ <i>Chung-ang University, Republic of Korea</i> , ² <i>CHA University, Republic of Korea</i>
[P098]	Novel synthesis and characterization of electrospun ZnO nanowires for photoanode in dye sensitized solar cells T. Tański, W. Matysiak*, M. Zaborowska, <i>Silesian University of Technology, Poland</i>

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[P195]	Preparation and properties of CdZnTe/AlN composite structure for UV photodetector Y.H. Xu*, Y. Shen, Z.K. Zhang, M. Cao, F. Gu, L.J. Wang, <i>Shanghai University, China</i>
[P196]	Characteristics of the Al₂O₃ coating on micro-arc oxidized aluminum alloy by laser cladding X.F. Wang*, Y.X. Li, Z.T. Zhu, <i>Southwest Jiaotong University, China</i>