			duration	conference hall	Room: 2E-1	Room: 2E-2	Room: 3E-1	Room: 3E-2	Room: 6F-1	Room: 6F-2
Sun 11 July	14:00	20:00	6:00	registration:1th floor foyer						
	18:00	20:00	2:00	receiption:2th floor foyer						
				Plenary:conference hall						
	8:30	8:45	0:15	opening speech by Professor Sam Zhang & Prof Xiaodong He. Chair and Local Chair of Thin Films 2010 and COMPO2010						
	8:45	8:55	0:15	speech by Prof Du Shanyi, Acacemician, Honary Director of CCMS and Prof Yi Xiaosu, member of executive committee of ICCM						
	8:55	9:35	0:40	Keynote1, Professor Joe Greene, Editor-in-chief, Thin Solid Films, University of Illinois, USA NNF 4162, Plenary Keynote Lecture, Design Strategies for the Growth of Self-organized 3D Thin Film Ceramic Nanostructures for Energy-related Applications Greene Joe; Departments of Materials Science, Physics, and the Materials Research Laboratory, University of Illinois, Urbana, Illinois, 61801; USA						
	9:35	10:15	0:40	Keynote2, Prof. Dr. Dr. h.c. Stan Veprek, Department of Chemistry, Technical University Munich, Germany NNF 5033, Plenary Keynote Lecture, Search for New Ultrahard Materials: Go Nano! Veprek Stan1;Zhang R.F.1; Veprek-Heijman M.G.J.1; Sheng S.H.2; Argon Ali S.2 1Department of Chemistry, Technical University Munich, Lichtenbergstr. 4, D-85747 Garching; Germany 2Department of Mechanical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139;USA						
	10:15	10:35	0:20	Teabreak						
	breakout	breakout		conference hall	Room: 2E-1	Room: 2E-2	Room: 3E-1	Room: 3E-2	Room: 6F-1	Room: 6F-2
					COMPO1 Session Chair, Prof. Jun Liang, Harbin Institute of Technology	COMPO2 Session Chair, Prof. Wolfgang Bauhofer, Institut für Optische und Elektronische Materialien Eißendorfer Straße 38, D-21073 Hamburg, Germany	NNF1 session chair: Professor GAO Wei Dept of Chemical & Materials Engineering, the University of Auckland; New Zealand	OFN1 Chairs: Prof. Dirk Ehrentraut (Tohoku University, Japan) and Dr. Gregory Goh (IMRE, Singapore)	BCT1	ODF1 session chair: Professor Guenther Benstetter University of Applied Sciences Deggendorf, Germany
	10:35	11:00	0:25	NA	COMPO5052(Invited), THE POTENTIAL FOR IMPROVED DURABILITY IN VACUUM INFUSED COMPOSITES BY THE USE OF INTERLAYER VEILS；P Hogg, M Kuwata, P Jamshidi, A Hjadaei, D. Tzetzis；Northwest Composites Centre, University of Manchester, United Kingdom	COMPO5041(invited), Multi-functional Smart Composites and Their Applications, Jingsong Leng, Yanju Liu, Shanyi Du, Center for composite materials, Harbin Institute of Technology, Harbin, China	NNF 4022, Invited Lecture, Physical Properties and Device Applications of Nanocrystals Chen Tu Pei; School of Electrical and Electronic Engineering, Nanyang Technological University; Singapore	OFN4159 INVITED Solution synthesis of wide band gap materials Dirk EHRENTRAUT (WPI-AIMR, Tohoku University, Sendai, Japan)	BCT 4512, Invited Lecture, Characteristics of TiO_2 nanotube arrays on titanium and its cellular compatibility Chengyun NING, Dan LI, Huade ZHENG, Guoxin TAN, Yuqiang WANG College of Materials Science and Technology, South China University of Technology,	ODF 4036, Invited Lecture, Electromechanical stability of semi-crystalline polymer He Xiaodong;Kong Xianghao Center for Composite Materials and Structures, Harbin Institute of Technology; China
	11:00	11:15	0:15	NA	4039;Application of Polymer Materials on Space deployable/Inflatable Structures;Guo Chang Lin, Hui Feng Tan;Harbin Institute of Technology, China	4600;Theoretical prediction of the stiffness and failure strength of stitched foam-core sandwich composites;Yuanchun Ma, Haitao Han, Zixing Lu, Wenshu Lu, Tao Qiu;Beijing University of Aeronautics and Astronautics, China	NNF 4985, Oral, Effect of thermal annealing on the damage resistance of nanocomposite coatings on steels Ahmed Mohammad1;Zhou Z.F2; Li K.Y3; Munroe P.R4; Xie Zonghan5 1School of Engineering, Edith Cowan University, WA, Australia; Australia 2Department of Manufacturing Engineering and Engineering Management (MEEM), City University of Hong Kong, Hong Kong;Hong Kong 3Department of Manufacturing Engineering and Engineering Management (MEEM), City University of Hong Kong, Hong Kong;Hong Kong	OFN4304 ORAL N type doping of epitaxial ZnO film grown in aqueous solution at 90°C Hong Quang LE, Kia Liang Gregory GOH, Soo Jin CHUA, Swee Kuan LIM (Materials Growth group, Institute of Materials Research and Engineering, Singapore)	BCT 4109, Oral, Surface Energy and Work of Adhesion of Titanium Oxide Films Zeng Lin, De Ba, Chun Liu School of Mechanical Engineering & Automation, Northeastern University, Shenyang 110004, China, China	ODF 4047, Oral, High efficient Si light-emitting diodes and textured-Si solar cells with obvious photonic crystal effect in nano-surface trench structure, manufactured and integrated by advanced CMOS semiconductor process Wang W. C.; National Chung-Hsing University, Taiwan, R. O. C.; Taiwan
	11:15	11:30	0:15	NA	4709;Research on Mechanical Behavior of Concrete Beams strengthened with Polymer carbon fiber ;Chunling Zhong;Jilin Architecture and Civil Engineering Institute，Changchun, China	4586;Mechanical properties of integrally woven textile sandwich composites;Jingjing Zheng, long Zhao, Fengnian Jin, Hualin Fan;b State Key Laboratory of Explosion Science and Technology, Beijing Institute of Technology, Beijing 100081, China, China	NNF 4110, Oral, Comparative study of Ta-N and W-N films deposited by dc magnetron sputtering JunFeng Yang;ZhiGang Yuan; XianPing Wang; QianFeng Fang Institute of Solid State Physics, Chinese Academy of Sciences; China	OFN4233 ORAL Properties of RF sputtered ZnO thin films under different oxygen flux Zhansheng GUO (Shanghai Institute of Appled Mathematics and Mechanics, Shanghai University, China)	BCT 4168, Oral, Interfacial study of magnesium-containing fluoridated hydroxyapatite coatings Yanli CAI, Sam ZHANG, Xianting ZENG, Deen SUN, Wenjian WENG School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore	ODF 4048, Oral, The investigation of the optimal Si-SiGe hetero-structure thin-film solar cell with the theoretical calculation and quantitative analysis Wang W. C.; National Chung-Hsing University, Taiwan, R. O. C.; Taiwan
	11:30	11:45	0:15	NA	4992;Dynamic response of Composite Marine Propeller;He Xiaodong, Hong Yi, Wang Rongguo, Zhang Hongming;Center for Composite Material and Structure, Harbin Institute of Technology, China	4564;Effects of Hydrothermal Treatment on the Interfacial Property of Single Carbon Fiber/High Temperature Cured Epoxy Resin;Hongxin Liu, Min Li, Yizhuo Gu, Zuoguang Zhang;School of Materials Science and Engineering, Key Laboratory of Aerospace Materials and Performance (Ministry of Education), Beihang University, Beijing, China	NNF 4124, Oral, Polymer composite of nanosized hydroxyapatite in ultrahigh molecular weight polyethylene (UHMWPE) Kandasubramanian Balasubramanian;Gilling John UK Materials Research Institute, Pera Innovation Park, Melton Mowbray, Leicestershire, LE13 0PB; United Kingdom	OFN4266 ORAL Effects of interlayer on electro-optical and mechanical properties of AZO thin films Rwei-Ching Chang (Department of Mechanical and Computer-Aided Engineering, St. John's University, Taiwan)	BCT 4416, Oral, Nanosized Pores in the Top Layer of Thermal Sprayed Nanostructured Hydroxyapatite Coatings Promotes the Osteoblast Cells Behavior Hua Li, Khiamaik Khor Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, China	ODF 4067, Oral, The investigation of the optimal Si-SiGe hetero-structure thin-film solar cell with the theoretical calculation and quantitative analysis S. T. Chang; National Chung-Hsing University; Taiwan
	11:45	12:00	0:15	NA	4885;Numerical analysis of mechanical behaviors for flax/PP weft knitted thermoplastic composites;Min SHEN, Wenliang WANG, Guangwen MA, Hongxia Li;Department of Mechanics, Tianjin University, China	4532;Effects of the thickness variation of each layer on the mechanical performances of AS4/PEEK;Shurong Ding, Yongzhong Huo;Department of Mechanics and Engineering Science, Fudan University, China	NNF 4312, Oral, Optical properties and crystallinity of nc-Si:H thin films grown by home-built PECVD Goh Boon Tong;Muhamad Muhamad Rasat; Rahman Saadah Abdul University of Malaya; Malaysia	OFN4079 ORAL The properties of ZnO deposits electroplated on an ITO-coated glass substrate Ching An Huang, Fu-Yung Hsu, Kung-Cheng Li (Department of Mechanical Engineering, Chang Gung University, Taiwan)	BCT 4570, Oral, Preparation and characterization of bioactive films consisted of dispersed TiO_2 nanospheres Kui Cheng, Xiaohua Liu, Pianpian Ma, Xuemei Jian, Wenjian Weng, Chenlu Song, Ge Shen, Piyi Du, Gaorong Han Mater. Sci. & Eng. Dept., Zhejiang University,	ODF 4161, Poster, Cold deposition of large-area amorphous hydrogenated silicon films by dielectric barrier discharge chemical vapor deposition He Haiyan;Gao Qian; Zhang Xiwen; Han Gaorong MSE Dept., Zhejiang University; China
	12:00	12:15	0:15	NA	4837;Microstructure simulation of untwisted filament bundle;Jinchao Li, Li Chen, Jingzhong Xing;Tianjin and Mimistry of education Key Laboratory of Advanced Textile Composite Materials, Institute of Textile Composite,Tianjin Polytechnic University, Tianjin, China	4577;Research on the residual elastic properties of unidirectional laminates with damage in the hygrothermal environment;Jin Ping Jin Ping;Harbin Institute Of Technology At WeiHai, China	NNF 4261, Oral, The Characteristics of Large Graphite Film Exolved from Molten Alloy Chang Kuen-Liang1;Hsu Kai-Hung1; Sung James C.2 1National Taipei University of Technology; Taiwan 2KINIK Company;Taiwan	OFN5012 ORAL Electrochromic and Hydrogen sensing behaviour of WO_3 nanoplatelets Bertrand SONE (Materials Research Department, iThemba LABS, South Africa)	BCT 4824, Oral, Rapid Grafting of Thermo-Sensitive Polymer onto Poly(Vinylidene Fluroride) Membrane by Atmospheric Pressure Plasma Jet Ta-Chin Wei, Chin-Wei Wang R&D Center for Membrane Technol. and Dept. of Chemical Engineering, Chung-Yuan Univ., Taiwan	ODF 4164, Oral, The Light Emission properties of ZnS:Mn Nanoparticles Ma Xiying; School of Mathmatics and Physics, Suzhou University of Science and; China
	12:15	12:30	0:15	NA	4746;Buckling behavior of compression-loaded advanced grid stiffened composite cylindrical shells with reinforced cutouts;Jingxuan He, Mingfa Ren, Shiyong Sun, Qizhong Huang, Haoran Chen;REN Mingfa(State Key Laboratory of Structural Analysis for Industrial Equipment,, China	4379;Preparation and Characterization of Poly (ethylene terephthalate) Nanocomposites with MgAl Layered Double Hydroxides;Tsung-Yen Tsai, Syuan-Ci Su, Tzu-Fang Chen, Chun-Yu Ciou;Tsung-Yen Tsai, Taiwan	NNF 4785, Oral, Effect of pre-deposited carbon layer on the formation of carbon nitride nanostructures prepared by radio- frequency plasma enhanced chemical vapour deposition Khanis Noor hamizah;Ritikos Richard; Othman Maisara; Rashid Nur Maisarah Abdul; Rahman	OFN4695 ORAL Optimal Structural Design for Zinc Oxide based Thin Film Transistor D.K. Lee, Y.J. Kim, J.H. Ahn, N.-E. Lee, K.Y. Park (School of Mechanical Engineering, Sungkyunkwan University, Korea (south))	BCT 4693, Oral, Electrodeposited Calcium Phosphate Film on the Anodized Titanium Binary Alloys KANG LEE, HAN-CHOEL CHOE, YEONG-MU KO Department of Dental Materials & Research Center of Nano-Interface Activation for Biomaterials,	ODF 4251, Oral, Dielectric polymer matrix composite films of CNT coated with anatase TiO_2 Kim Jin-Bong;Yi Jin-Woo; Nam Jung-Eun Composite Materials Group, Korea Institute of Materials Science; Korea (south)
	12:30	12:45	0:15	NA	4677;The B-basis value of the shearing strength of triangle-shape carbon fibers reinforced plastics;Liu Xin, Wang Rongguo, Liu Wenbo;Center for Composite Materials and Structure, Harbin Institute of Technology, China	4405;Modeling delamination buckling and propagation in slender composite plates with single embedded delamination;Lu Zhang, Rongguo Wang, Jianguang Zhang, Wenbo Liu, Xiaodong He, Yibin Le;Center for Composite Materials and Structures, School of Astronautics, Harbin Institute of Technology, Harbin, China	NNF 4319, Oral, Degree of ordering of granular structural L11 CoPt-MgO and L11 CoPt-SiO_2 thin films Huang Chiuan-Fa1;Sun An-Cheng1; Yuan Fu-Te2; Hsu Jen-Hwa3 1Department of Chemical Engineering & Materials Science, Yuan Ze University, Chung-Li, 32003,; Taiwan 2Institute of Physics, Academia Sinica, Nankang, Taipei, 116,;Taiwan 3)Institute of Applied Physics & Center for Nanostaorge Research, National Taiwan Unviersity,	OFN4544 ORAL Structural and optical properties of ZnO, TiO_2, ZnO/TiO_2 and TiO_2/ZnO thin films prepared by pulsed laser deposition Praveen K. Jain, Ashvani Kumar, Ajay Kaushal, Davinder Kaur (Department of Physics, Indian Institute of Technology Roorkee, India)	BCT 4545, Oral, In vitro behaviors of collagen/Ca phosphate coatings on titanium Junjun Tu, Siqian Liu, Kui Cheng, Wenjian Weng, Chenlu Song, Piyi Du, Ge Shen, Gaorong Han Department of Material Science and Engineering, Zhejiang University, China	ODF 4280, Oral, Epitaxial Growth of titanium thin films on sapphire substrates by pulsed laser deposition Zhang Hai-Liang;Zhang Ming-Fu; Han Jie-Cai; Xu Cheng-Hai; Guo Huai-Xin; Wang Ye1 Center for Composite Materials., Harbin Institute of Technology; China
		session oral		8	8	8	8	8	8	8
		total orals so far		8	8	8	8	8	8	8
	12:45	13:45	1:00	NA	lunch_poster	lunch_poster	lunch_poster	lunch_poster	lunch_poster	lunch_poster
				NA	COMPO3, session chair, P Hogg, Northwest Composites Centre, University of Manchester, United Kingdom	COMPO4, Session Chair, Prof. Jinsong Leng, Harbin Institute of Technology	NNF2 session chiar Professor Chen Tu Pei; School of Electrical and Electronic Engineering, Nanyang Technological University; Singapore	OFN2 Chairs: Prof. Ding Jun (NUS, Singapore) and Prof. Frederico Rosei (Univ. of Quebec, Canada)	BCT2	ODF2 session chair: Professor Dongping Liu Dalian Nationalities University, China

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13:45	14:10	0:25	NA	COMPO 4050 (invited)；Mathematical model analyzed the preparation technology of pitch-based precursor C / C composites；Jun Liang, Qi Lu, Mingkai Xia, Lina Hu；Center for Composite Materials and Structures, Harbin Institute of Technology, China	COMPO4135(invited);Evaluation of image depth for CNT/epoxy composite;Wenjing Li, Wolfgang Bauhofer;Technische Universität Hamburg-Harburg Institut für Optische und Elektronische Materialien Eißendorfer Straße 38, D-21073 Hamburg, Germany	NNF 4173, Invited Lecture, A Novel Method to Produce Nano-Dispersive Metal Matrix Composite Coatings GAO Wei1;CHEN Weiwei1; HE Yedong2 1Dept of Chemical & Materials Engineering, the University of Auckland; New Zealand 2Beijing Key Lab. for Corrosion, Erosion and Surface Technology, University of Science and Technology Beijing;China	OFN4262 INVITED Structure and magnetic properties of ZnO-based films prepared by hydrothermal process Jun Ding (Department of Materials Science & Engineering, National University of Singapore, Singapore)	BCT 4157, Invited Lecture, Characteristics and In Vitro Biological Assessment of (Ti, O, N)/Ti Composite Coating Formed on NiTi Shape Memory Alloy Tao Sun, Lang-Ping Wang, Min Wang, Ho-Wang Tong, William W. Lu Department of Mechanical Engineering, The University of Hong Kong, Pokfulam Road, Hong Kong, Hong Kong	ODF 4054, Invited Lecture, SMM Characterization of Dielectric Thin Films Wu Shijie;Yu Jing-Jiang; Magonov Sergei Agilent Technologies, Inc; USA
14:10	14:25	0:15	NA	4473;Enhanced properties of poly (L-lactide) Biodegradable polymers using functionalized Multiwalled carbon nanotubes using L-lactide oligomers;Maryam AMIRIAN, Wei CAI, Ali NABIPOUR CHAKOLI, Jiehe SUI;Dep. of Materials Physics and Chemistry, School of Materials Science and Engineering, Harbin Institute of Technology, Harbin, China	4478;Self-folding of single and multi-layer graphene Sheets;XIANHONG MENG;School of aeronautics science and engineering, Beihang University, China	NNF 4254, Oral, Effect of thermal annealing on the damage resistance of nanocomposite coatings on steels Ahmed Mohammad1;Zhou Z.F.2; Li K.Y.3; Munroe P.R.4; Xie Z. -H5 1School of Engineering, Edith Cowan University; Australia 2Department of Manufacturing Engineering and Engineering Management (MEEM), City University of Hong Kong;Hong Kong 3Department of Manufacturing Engineering and Engineering Management (MEEM), City University of Hong Kong;Hong Kong 4Materials Science and Engineering, University of	OFN4607 INVITED Synthesis and characterization of 0D and 1D functional oxide nanostructures Federico Rosei (INRS Energy, Materials and Telecommunications, Univ. of Quebec, Canada)	BCT 4207, Oral, Fabrication of biomimetic nanocomposite coatings on magnesium alloy surface Yan Liu, Sirong Yu, Liang Li The Key Lab. of bionic engineering,Ministry Education,Jilin University, China	ODF 4328, Oral, Inorganic-Organic Hybrid Nonlinear Optical Films Containing Thiophene-Vinyl Conjugated Chromophore GAO Junkuo;CUI Yuanjing; YU Jiancan; Qian Guodong Department of Materials Science and Engineering, Zhejiang University; China
14:25	14:40	0:15	NA	4493;Simulation of High Velocity Impact on Three-Dimensional Braided Composite Structure;XiTao ZHENG, GuangLiang LI, ZeJiang LI, Qiang YANG;School of Aeronautics, Northwestern Polytechnical University, Xi'an710072, China	4563;Numerical Study on Effects of Interaction between Rubber Mould and Lay-up on the Consolidation of Laminates in Autoclave Process;Jing Sun, Yanxia Li, Min Li, Yizhuo Gu, Zuoguang Zhang;School of Materials Science and Engineering, Key Laboratory of Aerospace Materials and Performance (Ministry of Education), Beihang University, China	NNF 4359, Oral, A modified block copolymer nano-patterning method for high density sub-30nm polystyrene nanosphere and gold nanomesh formation Subramani Thiyagu;Pei Zingway Graduate Institute of Optoelectronic Engineering, Department of Electrical Engineering, National	OFN4281 ORAL Chemical Approaches to Functional Nanostructures: Growth, Applications and Devices Sanjay Mathur (Institute of Inorganic and Materials Chemistry, University of Cologne, Germany)	BCT 4235, Oral, Enhancement of human osteoblast responses and bone bonding ability by nano-apatite film coatings -- in vitro and in vivo studies Yiying Qi, Ke Xu, Weiqi Yan Orthopeadic Dept., & Research Institutute, The Second Affiliated Hospital, Medical College,	ODF 4330, Oral, Preparation of Nonlinear Optical Films Containing Phenyltetraene-based Chromophores Thiolated with Side-chain Modifiable Groups YU Jiancan;CUI Yuanjing; GAO Junkuo; QIAN Guodong Department of Materials Science and Engineering, Zhejiang University; China
14:40	14:55	0:15	NA	4591；Finite element dynamic analysis of rectangular sandwich plates with an magnetorheological fluid core layer；Yuhang Li；School of Astronautics, Harbin Institute of Technology, China	4667;Influence of temperature on the mechanical performance of 3D five-directional braided carbon fiber reinforced 6421 BMI composites;Qi-wei GUO, Guo-li ZHANG, Jia-lu LI;Composite Materials Research Institute, Tianjin Polytechnic University, China	NNF 4366, Oral, Effect of rf-power on Au Induced Growth of Silicon Nanowires by Hot Wire Assisted Plasma-Enhanced Chemical Vapor Deposition (HWPECVD) technique Chong Su Kong1;Goh Boon Tong1; Aspanut Zarina1; Muhamad Muhamad Rasat1; Dee Chang Fu2; Rahman Saadah Abdul1 1Low Dimensional Materials Research Centre, Department of Physics, University of Malaya; Malaysia	OFN4230 ORAL Effects of p-type doping on the ZnO based diluted magnetic semiconductor thin films Liping Zhu, Xuetao Wang, Jie Jiang, Zhizhen Ye (Department of Materials Science & Engineering, Zhejiang University, China)	BCT 4491, Oral, Microstructure and properties of micro-arc oxidation films on magnesium alloy Huade Zheng, Chengyun Ning, Yingjun Wang, Wenming Xiong National Engineering Research Center for Human Tissue Restoration and Function Reconstruction, China	ODF 4331, Oral, Influence of substrate temperature and RF power on properties of highly-oriented Al-doped ZnO films prepared by in situ RF magnetron sputtering WANG Xiaojin;ZENG Xiangbin; CHEN Qiankun; JIANG Lihua; ZHANG Xiao; LI Qing6 Department of Electronic Science and Technology, Huazhong University of Science and Technology, Wuhan, Hubei,P.R. 430074.; China
14:55	15:10	0:15	NA	4690;Multiwalled Carbon Nanotube Reinforced Shape Memory Polymer;Jing Zhong;Multiwalled Carbon Nanotube Reinforced Shape Memory Polymer, China	4711;Research on Stability Condition of the Polar Winding on the Composite Pressure Vessel;rongguo Wang, fan Yang, wenbo Liu, weicheng Jiao;Center for composite materials and structures, Harbin Institute of Technology, China	NNF 4367, Oral, Resistive switching and its temperature dependence of anodized aluminum thin film structure Wei Zhu1;Tupei Chen1; Ming Yang1; Yang Liu1; Fung Sun2 1Nanyang Technology University; Singapore	OFN4223 ORAL Hydrothermal epitaxy of NaxK(1-x)NbO3 thin films Albertus Denny Handoko, Gregory K. L. Goh (Institute of Materials Research and Engineering, Singapore)	BCT 4531, Oral, Structure characterization and nano-hardness of Ni/Ti multilayer deposited by magnetron sputtering Guangwei Guo, Xinxin Ma, Guangze Tang, V. Rotshtein School of Material Science & Engineering, Harbin	ODF 4333, Oral, Study of surface plasmon resonance of self-assembled gold nanoparticles on fused silica substrate Zhu Shu;Chen Tupei; Yang Ming School of Electrical and Electronics Engineering, Nanyang Technological University; Singapore
15:10	15:25	0:15	NA	4740;Preparation and study on the oxygen scavenging polyurethane foam;Hong-jing WAN, Hong-jun HUANG, Zhi-guang LI, Xiao-mei Wang, Jian-wei Hu;Ordnance Engineering College, China	4767;Research on Thermal Contact Resistance Between Polymer Composites and Aluminum Alloy;Haiming Huang, Wen Jiao;Institute of Engineering Mechanics, Beijing Jiaotong University, Beijing 100044, China, China	NNF 4415, Oral, Large-area deposition of diamondlike carbon films and fluorocarbon films on glass or paper substrates by low-pressure dielectric barrier discharges Niu Jinhai;Liu dongping.liu Center for Optoelctronic Research,Dalian Nationalities University; China	OFN4666 ORAL Conductivity of porous yttria doped zirconia films deposited on samaria doped ceria Ming-Hsiu Wu, Jow-Lay Huang, Kuan-Zong Fung, Ding-Fwu Lii (Department of Electrical Engineering, Cheng Shiu University, Taiwan)	BCT 4907, Oral, Macroporous Alumina Scaffolds Coated with Bioactive Glass Ceramics Yongbin Wu, Xiaodong He, Liping Shi Center for Composite Materials and Structures, Harbin Institute of Technology, China	ODF 4355, Oral, Growth of nonpolar m-plane GaN epitaxial film on a latticed-matched (100) β-LiGaO2 substrate by chemical vapor deposition Mitch M.C. Chou;Chenlong Chen; Da-Ren Hang; Wen-ting Yang Department of Materials Science & Opto-electronic Engineering, National Sun Yat-
15:25	15:40	0:15	NA	4823;The Study of Single-walled Nanotube Reinforced Epoxy Composites by Molecular Dynamics;Jen-Ching Huang, Cheng-Yi Chiu, Yi-Chia Liao;Department of Mechanical Engineering,Tungnan University, Taiwan	4864；Nanoscale characterization of interphase in carbon fiber reinforced epoxy composites using dynamic modulus imaging technique；Jingjing Jia, Yizhuo Gu, Min Li, Zuoguang Zhang；School of Materials Science and Engineering, Key Laboratory of Aerospace Materials and Performance (Ministry of Education), Beihang University, Beijing, China	NNF 4991, Oral, High-flux Ceramic Membranes of Metal Oxide Nanofibres for Separation of Bio-substances Ke Xue Bin1;Shao Renfu2; Zhu Huai Yong1 1Queensland University of Technology; Australia 2University of Queensland;Australia	OFN4225 ORAL Facile fabrication of pure magnetite octahedral nanoparticles Huijuan Zhang, Hong Seng Lim, Cheecheong Wong, Jun Wei (School of Materials Science and Enginnering, Nanyang Technological University, Singapore)	BCT 4730, Oral, Encapsulation of CaCO3 microspheres with hydroxyapatite Zhe Zhang, Sam Zhang, Subbu S. Venkatraman, Lei Shang, Yanli Cai School of Mechanical & Aerospace Engineering, Nanyang Technological University, Singapore	ODF 4410, Oral, Effect of postannealing treatment in oxygen on dielectric properties of K0.5Na0.5NbO3 thin films prepared by chemical solution deposition Li Na;Li Wei-Li; Fei Wei-Dong Department of Materials Physics and Chemistry, Harbin Institute of Technology;
15:40	15:55	0:15	NA	4514;Theoretical Research on Mechanical Behavior of Continuous Beam Strengthened with CFRP Sheets;chunliang Li, feng he, hanbing liu;College of Transportation, Jilin University, China	4458;Dome thickness prediction of composite pressure vessels by a cubic spline function and finite element analysis;Rongguo Wang, Weicheng Jiao, Wenbo Liu, Fan Yang;Center for Composite Materials and Structures, Harbin Institute of Technology, China	NNF 4967, Oral, Deposition of nano-composite MoN-Cu coatings by reactive magnetron sputtering with single alloying target Kyoung Il Moon1;Cheol Woong Byun1; Seung Yong Shin2 1Heat & Surface Technology Center, Korea Institute of Industrial Technology; Korea (south) 2Eco Materials & Processing Department, Korea Institute of Industrial Technology;Korea (south)	OFN4552 ORAL Effect of substrate temperature on double perovskite La2NiMnO6 thin films grown by pulsed laser deposition technique Deepak Kumar, Davinder Kaur (Department of physics and centre of nanotechnology, Indian Institute of Technology Roorkee, India)	BCT 4555, Oral, Low temperature preparation of TiO2 nanodot film on substrates Yi Hong, Kui Cheng, Wenjian Weng, Chenlu Song, Piyi Du, Ge Shen, Gaorong Han Department of Materials Science and Engineering, Zhejiang University, China	ODF 4455, Oral, Effects of nanostructured photonic crystals on the light extraction enhancement of nitride light-emitting diodes Yen C. C.;Chien H. W.; Wu* G. M.; Lu H. C.; Chang T. W. Institute of Electro-Optical Engineering, Green Technology Research Center Chang Gung University, Kweisan, Taoyuan 333, Taiwan R.O.C.; Taiwan
session oral			8	8	8	8	8	8	8
total orals so			16	16	16		0	16	16
15:55	16:15	0:20	NA	tea break	tea break	tea break	tea break	tea break	tea break
			NA	COMPO5, session chair, Xiao-Su YI;National Key Laboratory of Advanced Composites, Beijing Institute of Aeronautical Materials, China	COMP6	NNF3 session chair Professor Liu Yang State Key Laboratory of Electronic Thin Films and Integrated Devices, University of Electronic Science and Technology of China, Chengdu, China; China	(invited) 4088 ELECTRON EXCHANGE in THIN FILMS, Ivan Gainullin, Physical Faculty of Moscow State University, Russian Federation	FPT1,Session chairs: Professor Zhou Yichun and Dr. Chenglin Yan	ODF3 session chair: Professor Size Yang. Institute of Physics, Chinese Academy of Science; China
16:15	16:40	0:25	NA	COMPO4508 (invited);Improvement of bonding characteristics of polymer composite with nanometer-scale surface modification;Bu Gi Kim, Dai Gil Lee;Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology, Korea (south)	COMPO4113 (invited);Integration of SWCNT into a single component epoxy resin and an industrial epoxy resin system;Jingwen GUAN, Yadienka MARTINEZ-RUBI, Behnam ASHRAFI, Benoit SIMARD, Andrew JOHNSTON, Yunfa ZHANG, Vahid MIRJALILI, Pascal HUBERT;Molecular and Nano-material Architectures Group, Steacie Institute for Molecular Sciences, National Research Council Canada, Ottawa, Ontario, K1A 0R6, Canada	NNF 4857, Invited lecture, Crystalline germanium nanoclusters in germanium oxide film grown at low temperature Tsai Tai-Cheng1;Lin Tzu-Shun2; Lou Li-Ren1; Lee Ching-Ting1 1Institute of Microelectronics, Department of Electrical Engineering, Center for Micro/Nano Science and Technology, National Cheng Kung University, Tainan 701, Taiwan, Republic of China; Taiwan 2Institute of Nanotechnology and Microsystems Engineering, National Cheng Kung University, Tainan, Taiwan, Republic of China;Taiwan	4049 An investigation and comparison for the different dopant diffusion behavior with and without stress in the lateral <110> and vertical <100> directions by SIMS and C-V measurement on the designed pattern, Wang C. W., National Chung-Hsing University, Taiwan, R. O. C.	FPT 4152, Invited Lecture, Conduction mechanism of ferroelectric thin films and Polarization retention in ferroelectric field-effect transistor Zhou Yichun; Yang Feng Faculty of Materials, Optoelectronics, and Physics, Xiangtan University; China	ODF 4118, Invited Lecture, Strain and Interface Engineering in Self-assembled Nanocomposite Oxide Films Yang Hao1;Wang Haiyan2; MacManus-Driscoll Judith L.3; Jia Quanxi4 1School of Physical Science and Technology, Soochow University; China 2Department of Electrical and Computer Engineering, Texas A&M University;USA 3Department of Materials Science and Metallurgy, University of Cambridge;United Kingdom 4Materials Physics and Applications Division, Los Alamos National
16:40	16:55	0:15	NA	4879;oxidation of carbon fiber to modifiy interface of Polytriazole matrix composites;Shuangjia LI, Yanhong HU, Lei DU, Zhanfeng ZHAO, Liqiang WAN, Huimin QI, Yan ZHOU, Farong HUANG;Key Laboratory of Specially Functional Polymeric Materials and Related Technology, China	5038, Design of hydraulic pump based on piezoelectric stack,Jian Sun, Yanju Liu, Qijian Sun, Jinsong Leng,Center for Composite Materials, Harbin Institute of Technology, China	NNF 4453, Oral, Dependence of optical and electrical properties of nanostructured CdO thin films on annealing temperature Abdolahzadeh Ziabari Ali Akbar1;Abdolahzadeh Ziabari Ali Akbar2; Esmaeili Ghodsi Farhad2 1Islamic Azad University, Lahijan Branch, P.O. Box 1616, Lahijan, Iran; Iran 2Department of Physics, Faculty of Science, University of Guilan, Namjoo Ave. P.O. Box, 41335-	4025 Electrochemical interface characteristics of diamond-like carbon thin film electrodes, Guocheng Yang, Erjia Liu, Wenguang Ma, Aiping Liu, Zhaomeng Wang, Nay Win Khun, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore	FPT 4031, Oral, Characterization of ZnO film based surface acoustic wave devices BRODIE Stuart1; FU Yongqing1; Garcia-Gancedo Luis2; PORRO Samuele1; WILSON John1; FLEWITT Andrew2; MILNE William2 1School of Engineering and Physical Sciences, Institute of Integrated Systems, Heriot-Watt University; United Kingdom 2Centre for Advanced Photonics and Electronics, Department of Engineering, University of	ODF 4466, Oral, Effect of Oxide Film on Radiative Properties of Split Ring Resonators of Aluminum QIU Jun;LIU Linhua School of Energy Science and Engineering,Harbin Institute of Technology; China

Start	End	Duration		Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
16:55	17:10	0:15	NA	4488;Research on flexural behavior of Concrete Beams by Affixing Carbon Fiber;yunlong zhang;Jilin Architecture and Civil Engineering Institute，Changchun, China	5026;Experimental and Numerical Analysis of Torsion Behaviors of An Inflated Boom;Huifeng Tan, Zhenyong Du, Changguo Wang;Harbin Institute of Technology, China	NNF 4490, Oral, High Temperature Corrosion Behavior of Sputtered K38 Nanocrystalline Coatings with Yttrium Additions in Molten Sulfate Yu Ping;Wang Wen2; Wang Fuhui2; Zhu Shenglong2 Shenyang University of Chemical Technology; China 2State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences;China	4090 Development of a cost-effective composite film technique for functional micro-tools, Shun-Tong Chen, National Taiwan Normal University, Taiwan	FPT 5047, Oral, A p-Si/p-Copper phthalocyanine/Al hybrid Schottky photodiode hybrid for optoelectronic applications Yakuphanoglu Fahrettin Physics Department, Firat UniversityTurkey, 23169, Elazig; Turkey	ODF 4614, Oral, NANOMECHANICAL PROPERTY TESTING OF LOW-K DIELECTRIC MATERIALS Song Shaungxi1;Stromberg Ryan1; Li Han2 1Hysitron Nanomechanical Instruments Inc.; USA 2Harvard University;USA
17:10	17:25	0:15	NA	5049;Electrical characterization of organic diode fabricated with NIR absorbing functional manganase phthalocyanine organic semiconductor;Mehmet Kandaz, Armağan Günsel, Ahmet Turgut Bilgiçlia, Fahrettin Yakuphanoglu;Department of Chemistry, Sakarya University, 54140 Esentepe, Sakarya, Turkey, Turkey	5021;Some aspects of shear yielding and emergence of shear bands in solid polymers;Igor Dobovšek;Faculty of Mathematics and Physics,University of Ljubljana, Slovenia	NNF 4851, Oral, The study of nano-scratch and nano-machining in different environment on Cr2N/Cu multilayer thin flims Huang Jen–Ching1;Li Chia-Lin3; Lee Jyh-Wei4; Liao Yi-Chia1 1Department of Mechanical Engineering, Tungnan University; Taiwan 3Research Center for Micro/ Nanotechnology, Tungnan University;Taiwan 4Department of Materials Engineering, Mingchi	4169 Electrodeposition of Quaternary Alloys with High Saturation Magnetic Flux Density, Mehdi Ebadi, Department of Chemistry, Malaya University, Malaysia	FPT 4060, Oral, Co-sputtering deposition of BiFeO3 multiferroic films Li Yibin1;Li Mingwei1; Sritharan Thirumany2; He Xiaodong2; Zhang Sam2 1Harbin Institute of Technology; China 2Nanyang Technological University; Singapore	ODF 4633, Oral, Effect of dopant concentration on the structural, electrical and optical properties of Mn-doped ZnO films Ruan H.B.1;Fang L1; Li D.C.1; Qin G.P.2; Kong C.Y.2 1Department of Applied Physics, Chongqing University, Chongqing 400030, China; China 2Optical Engineering Key Lab, Chongqing Normal University, Chongqing 400047, China;Christmas Island
17:25	17:40	0:15	NA	4909;The Higher Order Crack Tip Fields for Arbitrary FGM Composite Functions;Yao DAI, Lei ZHANG;The department of mechanical engineering, the academy of armored force engineering, China	4898;Homogenization Estimates for Macroscopic Mechanical Behaviours of Particle-Reinforced Polymer Composites;Lianhua Ma, Chunhui Yang, Qingsheng Yang;Department of Engineering Mechanics, Beijing University of Technology, China	NNF 4862, Oral, Laser surface remelting of plasma sprayed conventional and nanostructured Al2O3-13wt%TiO2 coatings on titanium alloy Li Chonggui;Wang You; Guo Lixin; Tian Wei Department of Materials Science, Harbin Institute of Technology; China	4137 The electrochemical behaviors of LaSrCo oxide electrode in water electrolysis, M i n g D&# T s e n g, Wei-Yu Ho, M i n g D a u u n i v e r s i t y, Taiwan	FPT 4292, Oral, Crystallization of Single-Crystalline NaNbO3 Nanobelt films by Thermal Conversions Wu Junshu; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology; China	ODF 4776, Oral, p-Type AZO thin films prepared by radio frequency magnetron sputtering using different nitrogen-containing gases Lu Hsin-Chun;Lo Chen-Yang; Chang Chen-Sung; Lu Jo-Ling; Lai Chi-You Department of Chemical and Materials Engineering, Chang Gung University, Kwei-
17:40	17:55	0:15	NA	4894;Mechanical Analysis of Bending Interlaminar Nonlinear Behavior of Thermoplastic Composite Laminates;Min SHEN, Yishi SU, Jingwei TONG;Department of Mechanics, Tianjin University, China	4876;Optimum design of composite spherical frame of afterward fuselage;Zhefeng Yu, Hongpu Chai;School of Aeronautics and Astronautics, Shanghai Jiaotong University, China	NNF 4863, oral, Anti-bacteria behaviors of TaN-Cu and TaN-Ag nanocomposite thin films Hsieh Jang-Hsing1;Yeh T. H.1; Chiou C. S.2; Huang C. T.2; Li C.3 1Dept. of Materials Engineering, Ming Chi University of Technology; Taiwan 2Chang-Gung Memorial Hospital, Chang-Gung University;Taiwan	4277 The electrochemical characteristics of the passive films formed on Inconel 718 alloy in the environments containing high H2S and CO2 partial pressures, Shuqi ZHENG, Yuan KUANG, Changfeng CHEN, Department of Materials Science and Engineering, China University of Petroleum-Beijin, China	FPT 4197, Oral, Structural and Electrical Properties of Microwave Annealed Solution Deposited BiFeO3 Thin Films Huang Alicia; Shannigrahi Santiranjan Institute of Materials Research and Engineering, A*STAR; Singapore	ODF 4765, Oral, Enhanced violet photoluminescence from Er-doped ZnO:Al thin films prepared by DC magnetron sputtering Huang X.H.1;Zhou F.1; Kong Z.Q.2 1Academy of Frontier Science, Nanjing University of Aeronautics and Astronautics; China 2College of Material Science and Technology, Nanjing University of Aeronautics and Astronautics;China
17:55	18:10	0:15	NA	4844;Reprocessing and Its effects on mechanical properties of wood fiber/polypropylene composites;Denni Kurniawan, Byung Sun Kim, Joong Yeon Lim, Woo Il Lee;Department of Mechanical, Energy, and Robotics Engineering, Dongguk University, Korea (south)	4819;Deformation measurement of composite laminate with impact damage under compressive loads;Jiangtao Ruan, Shibin Wang, Jingwei Tong, Min Shen, Aymerich Francesco, Priolo Pierluigi;Department of Mechanics, Tianjin University, China	NNF 5031, Oral, XPS and Raman characterization of the excessive C in sp3C doped SiC superhard nanocomposite film Yi Jian1;He Xiaodong2; Sun Yue2; Li Yibin2; Huang Jianping2; Guan Chunlong3; Zhang Sam4 1College of Mechanical Engineering; Taizhou University, Taizhou 318000., P.R.China; China 2Harbin Institute of Technology;China 3Henan University of Technology;China 4School of Mechanical and Aerospace Engineering, Nanyang Technological University;Singapore	4732 Electrochemical Conjugated Polymer Network of Precursor Polymer Ultrathin Films, Paralee Waenkaew, Sukon Phanichphant, Rigoberto C. Advincula, Department of Chemistry, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand	FPT 4107, Oral, Galvanic deposition of ZnO using mixed electrolyte and their photoluminescence properties Wang Lida; Liu Guichang; Zou Longjiang; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology; China	ODF 4783, Oral, Comparative study of the effects of O2 and CF4 plasma treatments on the HfO2 metal-insulator-metal capacitors Tsai Jung-Ruey12;Lin Wen-Kai3; Li Chi-Shiau1; Chen Jyun-Ning1; Liu Kou-Chen1 1Institute of Electro-Optical Engineering, Chang Gung University; Taiwan 3Department of Electrical Engineering, National Chung Hsing University;Taiwan
18:10	18:25	0:15	NA	4810;The influence in basalt fibers/polystyrene interfacial compatibility through modification of basalt fibers by block copolymers;Shuni Ying, Xiaodong Zhou;State Key Laboratory of Chemical Engineering, East China University of Science and Technology, China	4788;Research on Heat Resistance and Dielectric properties of Modified Cyanate Ester Composite;Hui Chen, Xiao-guang Li, Li-xia Jia, Ju-long Gao;Harbin FRP Institute, China	NNF 4780, Oral, Effects of RF Power on the Structural Properties of Carbon Nitride Thin Films Prepared by Plasma Enhanced Chemical Vapour Deposition Othman Maisara;Ritikos Richard; Khanis Noor Hamizah; Rashid Nur Maisarah Abdul; Rahman Saadah Abdul; Gani Siti Meriam Ab1; Muhamad Muhamad Rasat1 Solid State Research Laboratory, Department of Physics, University of Malaya; Malaysia	4462 Characterization and electrochemical impedance spectroscopy of the nominal composition of Li1+xAlxTi2-x(PO4)3 (x=0, 0.2, 0.3, 0.4) film by RF-sputtered, hongping Chen, xiujian Zhao, yuli Xiong, qide Wu, Key Laboratory of Silicate Materials Science and Engineering, Ministry of Education, Wuhan University of Technology, Hubei Province 430070, China	FPT 4129, Invited Lecture, Multifunctional Heterostructure Nanotubes: Local Ferroelectric Reponses and Electronic Properties Yan Chenglin Max Planck Institute of Microstructure Physics; Germany	ODF 4818, Oral, Transparent conductive Indium-doped Zinc oxide films prepared by atmospheric pressure plasma jet Chang Kow-Ming1;Huang Sung-Hung1; Lin Wei-Li1; Chen Wei-Chiang1; Chi Chia-Wei1; Lin Je-Wei2 1Department of Electronics Engineering & Institute of Electronics, National Chiao Tung University; Taiwan 2Industrial Technology Research
18:25	18:40	0:15	NA	4737;A mesoscopic numerical constitutive model to simulate the hyperelastic properties of carbon-black particle filled rubbers under moderate finite deformation;Xu Li, Yong Xia, Ziran Li, Yuanming Xia;Department of Modern	4712;Simulation on thermal and stress responses of an infrared functional window at hypersonic velocities;Liu Yuanchun, He Yurong, Peng Wengen, Zhu Jiaqi, Han Jiecai;thermal engineering and engineering thermophysics, Harbin Institute of	NNF 4834, Oral, Effect of the electroplating conditions on microstructure and magnetic properties of nanocrystalline CoFeNi thin films Mehrizi Saeed;Heydarzadeh Sohi Mahmoud	4781 The study of visible-light catalytic performs of the organic compounds coating TiO2 nanotube prepared by anodic oxidation and simple modification, Jen-Ching ChenHuang, Hsin-Pei Chen, Yu-Jie Chang,	oral	ODF 4872, Oral, Low-temperature hydrothermal–galvanic couple synthesis of SrTiO3 thin films Lu Fu-Hsing;Lin Chia-Chun; Yang Chia-Jung Department of Materials Science and
	session oral		9	9	9	9	9	9	9
	total orals so far		25	25	25		0	25	25
			day 2: 13rd July 2010	day 2: 13rd July 2010	day 2: 13rd July 2010	day 2: 13rd July 2010	day 2: 13rd July 2010	day 2: 13rd July 2010	day 2: 13rd July 2010
8:30	9:10	0:40		Keynote 3 Prof Ferrari Andrea, University of Cambridge, United Kingdom NNF 5029, Plenary Keynote Lecture, Nanotechnology with graphene, nanotubes and diamond-like carbon Ferrari Andrea; University of Cambridge; United Kingdom					
9:10	9:50	0:40		keynote4， Prof. Masaki HOJO, Department of Mechanical Engineering and Science, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan					
9:50	10:10	0:20	Teabreak poster	Teabreak poster	Teabreak poster	Teabreak poster	Teabreak poster	Teabreak poster	Teabreak poster
breakout	breakout		NA	Room: 2E-1	Room: 2E-2	Room: 3E-1	Room: 3E-2	Room: 6F-2	Room: 6F-2
			NA	COMPO7, session chair, Woo Il Lee, Dept. of Mechanical and Aerospace Engineering, Seoul National University, Korea (south)	MPF1 session chair: Ben BEAKE, Micro Materials Ltd, United Kingdom	NNF4 session chair Professor Kim Tae Whan; National Research Laboratory for Nano Quantum Electronics, Department of Electronics and Communications Engineering, Hanyang University; Korea (south)	OFN3 Chairs: Prof. Yoshitake Masuda (AIST, Japan) and Prof. John Wang (NUS, Singapore)	FPT2, Session chairs: Goh Gregory and Fei Weidong	ODF4 session chair: Professor Hao Yang. School of Physical Science and Technology, Soochow University; China
10:10	10:35	0:25	NA	COMPO4989 (invited);INNOVATION IN LIQUID MOLDING PROCESS FOR AEROSPACE COMPOSITES;Xiao-Su YI;National Key Laboratory of Advanced Composites, Beijing Institute of Aeronautical Materials, China	MPF 4007, Invited Lecture, Friction and wear properties of amorphous carbon nitride coatings in water lubrication Zhou Fei; Academy of Frontier Science, Nanjing University of Aeronautics and Astronautics; China	NNF 4208, Invited Lecture, Novel high-temperature oxidation-resistant Ni-base nanostructured films PENG Xiao; State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences; China	OFN4018 INVITED Morphology Control of Metal Oxide Nano-strucutres for Dye-sensitized Molecular Sensor Yoshitake Masuda (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	FPT 4220, Invited Lecture, Hydrothermal epitaxy of lead free (Na,K)NbO3-based piezoelectric films Handoko Albertus12; Goh Gregory1 1Institute of Materials Research and Engineering; Singapore	ODF 4639, Invited Lecture, Characterization of Ti-Al-N films deposited by cathodic vacuum arc with different N2 partial pressure Zhang Guoping1;Gao Guojun2; He Xiaoguang2; Wang Yan2; Lv Guohua1; Wang Xingquan2; Chen Huan1; Yang Size1 1Institute of Physics, Chinese Academy of
10:35	10:50	0:15	NA	5014;Integral design for filament-wound composite pressure vessels;Lei Zu, Sotiris Koussios, Adriaan Beukers;Design and Production of Composite Structures, Faculty of Aerospace Engineering,Delft University of Technology, Netherlands	MPF 4080, Oral, Tribaloy Alloy Reinforced Tin-Bronze Composite Coating for Journal Bearing Applications Liu Rong;Gao Feng; Wu Xijia Department of Mechanical & Aerospace Engineering, Carleton University; Canada	NNF 4260, Oral, Mechanical properties of TiSiN nanocomposite coatings deposited by modulation of bias voltage ZHOU Z. F.1;ZHAO B.1; SHUM P. W.1; LI K. Y.1; XIE Z. H.2; ALAMEH K.3 1Advanced Coatings Applied Research Laboratory (ACARL), Department of Manufacturing Engineering and Engineering Management, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon, Hong Kong; China 3Centre for MicroPhotonic Systems (COMPS), Electron Science Research Institute, Edith Cowan	OFN4431 ORAL Highly Ordered Mesoporous Films of Titania for Photovoltaic Applications John Wang, Yu Zhang (Department of Materials Science and Engineering, National University of Singapore, Singapore)	FPT 4040, Oral, Electric field-induced magnetization change in BaTiO3-CoFe2O4 nanocomposite thin films with different orientations Bai Feiming1; Zhang Huaiwu1; Li Jiefang2; Viehland Dwight2 1State Key Laboratory of Electronic Thin Film and Integrated Devices, University of Electronic Science and Technology; China 2Department of Materials Science and Engineering, Virginia Tech; USA	ODF 4908, Oral, Fabrication of β-FeSi2 thin films from Fe/Si multilayers deposited by magnetron sputtering and ion beam sputtering SHEN Honglie;LU Linfeng; ZHANG Juan; JIANG Feng; SHEN Zhou; LI Binbin1; LIU Lianci1 College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics; China

	10:50	11:05	0:15	NA	4958;Optimization of Ceramic/Composites Armor Structures against Ballistic Impact;Jiangjiang Zhang, Xiaodong He, Rongguo Wang, Dequan Ma;Center for Composites Materials and Structures, Harbin Institute of Technology, China	MPF 4177, Oral, Tribological and mechanical behaviors of TiNi/a-CNx multilayer films deposited by magnetron sputtering Liu D. G.;Tu J. P.; Hong C. F.; Gu C. D.; Mai Y. J. State Key Laboratory of Silicon Materials, Department of Materials Science and Engineering, Zhejiang University; China	NNF 4515, Oral, Design and characterization of MEMS flow sensors using silicon nanowires LOU LIANG;LEE CHENGKUO1; XU XIANG GUO3; KOTLANKA RAMA KRISHNA2; SHAO LICHUN2; KWONG D. L.2 1Electrical and Computer Eng., National University of Singapore; Singapore 2Institute of Microelectronics, A-STAR,;Singapore 3Institute of High Performance Computing, A-STAR;Singapore	OFN4649 ORAL Microstructural analysis and opto-electronic properties of Cu2O/Cu2O(Ag) multilayered nanocomposite thin film C. C. Tseng, J. H. Hsieh, W. Wu (Dept. of Materials Science and Engineering, National Chung Hsing University, Taichung, Taiwan)	FPT 4108, Oral, Galvanic deposition of ZnO nanorods and thermal annealing effects on their optical properties Zhang Lida; Liu Guichang; Zou Longjiang; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology; China	ODF 4916, Oral, The Designs of AND Logic Gates based on Photonic Crystals Lee Kun-Yi1;Yang Yi-Cheng2; Lin Yen-Jue1; Yang Yi-Bin4; Lee Cheng-Che3; Lee Wei-Yu1 1Electrical Engineering Dept., China University of Science and Technology, Taiwan 2Graduate Institute of Computer and Communication Engineering, National Taipei University of Technology;Taiwan 4Graduate Institute of Electrical Engineering, National Central University;Taiwan
	11:05	11:20	0:15	NA	4889;Shear properties of carbon/epoxy composite sandwich panels with pyramidal truss core;Shi Yan, Tao Zeng, Dai-ning Fang, Yu Gu, Nan Li, Kun Zhang;Department of Engineering Mechanics，Harbin University of Science and Technology, China	MPF 4374, Oral,Study of mechanical properties of polyimide/aluminum oxide hybrid films Chen Cheng-Ho1;Yen Fu-Su 1Department of Chemical and Materials Engineering, Southern Taiwan University; Taiwan	NNF 4543, Oral, Effect of nanoceramic in polypropylene grafted maleic anhydride on dielectric properties Kandasubramanian Balasubramanian; UK Materials Research Institute, Pera Innovation Park, Melton Mowbray, Leicestershire, LE13 0PB; United Kingdom	OFN4719 ORAL Optical fiber sensors with oxide thin films as sensitive elements Minghong YANG, Xiaobin LI, Zhaolong LIAO (Nation Engineering Lab for Optical Fiber Sensors, Wuhan University of Technology, China)	FPT 4315, Oral, Band Gap Engineered NixZn1-xO alloys and their microstructure Dogan D.Duygu; Caglar Yasemin; Ilican Saliha; Caglar Mujdat Department of Physics, Anadolu University; Turkey	ODF 4918, Oral, Transparent thin film transistors with various sputtering conditions of insulator Lin Wen-Kai1;Tsai Jung-Ruey2; Chang Shu-Tong1; Liu Kou-Chen2 1Department of Electrical Engineering, National Chung Hsing University; Taiwan 2Institute of Electro-Optical Engineering, Chang G ng Uni ersit Tai an
	11:20	11:35	0:15	NA	4222;Effect of Thermo-aging on Mechanical Properties of Carbon fiber/BMI Composites;Xinying Lv, Rongguo Wang, Wenbo Liu, Long JiangCenter for Composite Materials and Structure, Harbin Institute of Technology, China	MPF 4448, Oral, Study on structure and friction-wear properties of magnetron sputtering CrCrN multilayered coatings wu xiangjun;zhang xuhai; tan shuyong; fang feng School of Materials Science and Engineering, Southeast University; China	NNF 4559, Oral, Magnetron sputtered Cr-Ti-Al-C thin films from Cr2AlC-TiC composite targets Ying Guobing1;He Xiaodong1; Li Yibin1; Li Mingwei2; Du Shanyi1 1Center for Composite Materials and Structures, Harbin Institute of Technology; China 2National Key Lab for Precision Hot Processing of	OFN4436 ORAL Enhanced electrochromic performance of macroporous tungsten oxide films Lili Yang, Dengjiang Ge, Jiupeng Zhao, Xiangping Kong (School of Chemical Engineering and Technology, Harbin Institute of Technology, China)	FPT 4998, Oral, Preparation of Pressure-sensitive Conductive Composite Materials Zhao Wen; Lab of Printing & Packaging Material and Technology , Beijing Institute of Graphic Communication; China	ODF 4920, Oral, The influence of fabrication process on top-gate thin-film transistors Lin Wen-Kai1;Chen Jyun-Ning2; Tsai Jung-Ruey2; Chang Shu-Tong1; Liu Kou-Chen2 1Department of Electrical Engineering, National Chung Hsing University; Taiwan 2Institute of Electro-Optical Engineering, Chang Gung University;Taiwan
	11:35	11:50	0:15	NA	4373;UNIT CELL ANALYTIC MODEL FOR FAILURE ANALYSIS OF NOTCHED COMPOSITES;Boming Zhang, Lin Zhao;Center for Composites and Structure, Harbin Institute of Technology, China	MPF 4647, Oral, Construction and tribological properties of polydopamine based organic films Wang Jinqing;Ou Junfei; Yang Shengrong State Key Laboratory of Solid Lubrication, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences; China	NNF 4578, Oral, Preparation and Characterization of TiO2-coated Zero-Valent Iron Nanocomposites for Decontamination of Nitrates and Nitrates in Wastewater Tu Mu-Ting;Lin Kuen-Song; Cheng Shou-Fu; Liu Chih-Ping; Li Kun-Yu Department of Chemical Engineering & Materials Science/Fuel Cell Center, Yuan Ze University; Taiwan	OFN4237 ORAL Growth Mechanism and Gas Sensing Behavior of Tin Oxide Nanowire Arrays Pan Jun, Shun Hao, Mathur Sanjay, Prades Juan Daniel, Hernandez-Ramirez Francisco (Institute of Inorganic Chemistry, University of Cologne, Germany)	FPT 4628, Oral, Formation and its mechanism of nano-Ag/PbTiO3 thin films heat treated under reductive atmosphere Su Yanbo; wang Zongrong; Tang Liwen; Ma Ning; Han Gaorong; Song Chenlu; Weng Wenjian State Key Laboratory of Silicon Materials, Department of Materials Science and Engineering, Zhejiang University; China	ODF 4929, Oral, In situ growth mechanism study of magnetized plasma-assited atomic layer deposition of Al2O3 by spectroscopic ellipsometry Xingcun Lee; Laboratory of Plasma Physics and Materials,Beijing Institute of Graphic Communication; China
	11:50	12:05	0:15	NA	4389;Progressive failure modeling in laminated composites with delaminations subjected to compression，Boming Zhang, Zhanwen Tang，Center for Composites and Structure, Harbin Institute of Technology, China	MPF 4297, Oral, Magnetron Sputtered Rutile-TiO2 Films for Tribological and Anti-corrosion Applications KRISHNA D. Siva Rama;SUN Yong; CHEN Zhong School of Materials Science and Engineering, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798, Singapore	NNF 4587, Oral, Finite element analysis of residual stress of nanostructure and microstructure NiCoCrAlY/8YSZ thermal barrier coatings fabricated by atmospheric plasma spray You Wang1;Liang Wang2; Ye Zhou3; Zhaoyi Pan4 1Department of Materials Science,Harbin Institute of Technology; China 2Department of Materials Science,Harbin Institute of	OFN4899 ORAL Plasma-Modified SnO2 Nanowires for Enhanced Gas Sensing Jun Pan, Xiao Lisong, Song Xuefeng, Li Jiangtian, Shen Hao, Mathur Sanjay (Institute of Inorganic and Materials Chemistry, Germany)	FPT 4513, Invited Lecture, Phase composition and ferroelectric properties of Pb(ZrxTi1-x)O3 thin films in the vicinity of morphotropic phase boundary Fei Weidong; Wang Jiming; Li Weili Harbin Institute of Technology; China	ODF 4943, Oral, Computational design and characterization of 2-D photonic crystals hexagonal nano-ring resonators LEE CHENGKUO1;LU RO1; HSIAO FU-LI2; BHARADWAJA KAVITA1 1Electrical and Computer Eng., National University of Singapore; Singapore 2Institute of Photonics, National Changhua University of Education;Taiwan
	12:05	12:20	0:15	NA	4392;AN OPTIMIZATION PROCEDURE OF REUSABLE LAUNCH VEHICLE WING STRUCTURE;Tatiana AGEEVA, Sergey REZNIK;Dept. SM-13 "Rocket and Space Composite Structures", Bauman Moscow State Technical University, Russian Federation	MPF 4150, Oral, Friction and wear properties of TiCN coatings sliding against SiC and steel balls in air and water Wang Qianzhi1;Zhou Fei1; Chen Kangmin2; Wang Meiling1; Qian Tao3 1Nanjing University of Aeronautics and Astronautics; China 2Jiangsu University;China	NNF 4640, Oral, Visible Transparent, UV-blocking Polymer Nanocomposite Films Containing Nano-sized Organic-LDH (Layered Double Hydroxide) Hybrid Zhao Yan1;Yang Weidong2; Wang Xungai1; Lin Tong1 1Centre for Material and Fibre Innovation, Deakin University, Geelong, VIC 3217; Australia 2Division of Materials Science & Engineering, CSIRO, Highett, VIC 3190;Australia Ultraviolet (UV) damage has been a major concern not only in daily life	OFN4904 ORAL Synthesis of tin-antimony nanostructures in hollow graphite spheres bearing high electrochemical properties Xuefeng Song, Jun Pan, Lisong Xiao, Jiangtian Li, hao Shen, Sanjay Mathur (Institute of Inorganic and Materials Chemistry, Germany)	oral	ODF 4945, Oral, Design of 1.31/ 1.55μm Wavelength Demultiplexer Using 2-D Photonic Crystal Lee Kun-Yi1;Lee Yi-Yu2; Lin Yen-Jue1; Lee Cheng-Che3; Chang Chin-Yu4; Lee Wei-Yu1 1Electrical Engineering Dept., China University of Science and Technology, Taiwan 2Graduate Institute of Electro-Optical Engineering, National Taipei University of Technology;Taiwan 3Graduate Institute of Electronic Engineering, China University of Science
	session oral				8	8	8	8	8	8	8
	total orals so far				33	33	33	33	33	33	33
	12:20	13:20	1:00	NA	lunch_ooster	lunch_ooster	lunch_ooster	lunch_ooster	lunch_ooster	lunch_ooster	lunch_ooster
				NA	COMPO8, session chair, Dr. Balasubramanian Kandasubramanian;UK Materials Research Institute, Pera Innovation Park, Melton Mowbray, United Kingdom	MPF2 session chair: CHEN Zhong, Nanyang Technological University, Singapore	NNF5 session chair Professor PENG Xiao; State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences; China	OFN4: Chairs: Prof. Guenther Bensetter (Deggendorf University of Applied Sciences, Germany) and Prof. Lee Ming-Kwei (National Sun Yat-sen University, Taiwan)	FPT3,Session chairs: Professor Yin Shu and Dr. Wu Junshu	ODF5 session chair: Professor Guenther Bensetter University of Applied Sciences Deggendorf, Germany
	13:20	13:45	0:25	NA	COMPO4295 (invited);Experimental Analysis of Filtration of Particles During Liquid Composite Molding Process;Woo Il Lee, Sang Hyuk Yeom, Jong Kyoo Park, Joung Man Park;Dept. of Mechanical and Aerospace Engineering, Seoul National University, Korea (south)	MPF 4026, Invited Lecture, Nanomechanics at 750C for extreme coatings applications Beake Ben1;Fox-Rabinovich German2 1Micro Materials Ltd; United Kingdom 2Dept of Mechanical Engineering, McMaster University;Canada	NNF 4839, Invited Lecture, Nonvolatile memory devices based on hybrid inorganic/organic nanocomposite layers Kim Tae Whan; National Research Laboratory for Nano Quantum Electronics, Department of Electronics and Communications Engineering, Hanyang University;	OFN4519 INVITED Intermittent-Contact Scanning Capacitance Analyses of Thin Dielectric Films and Semiconductor Devices Guenther Benstetter, Roland Biberger, Alexander Hofer, Holger Gosbel (Dept. of Electrical Engineering, Deggendorf University of Applied Sciences, Germany)	FPT 4474, Invited Lecture, Synthesis and Multifunctions of ZnO Powders / Films with Various Morphologies YN Shu1; GOBO Fumihiro1; GOTO Takehiro12; GUO Chongshen1; SATO Tsugio1 1IMRAM, Tohoku University; Japan	ODF 4957, Oral, Characterization of sulfur doped diamond-like carbon thin films deposited by dc magnetron sputtering Arunya Saeheng1;Nattaporn Tonanon1; Boonchoat Paosawatyanyong2 1Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok; Thailand
	13:45	14:00	0:15	NA	4549;Stab Resistance of Thermoset-impregnated UHMWPE Fabrics;Wang dong-ning, Jiao ye-nan;Tianjin and Ministry of Education Key Laboratory of Advanced Composites, Tianjin Polytechnic University, China	MPF 4141, Oral, Mechanical property of FeCrAl-Y2O3 foil fabricated by EBPVD Lin Xiu1;He Xiaodong1; Sun Yue1; Li Yibin1; Li Xinyan1; Song Guangping1; Li Mingwei1 1Center for Composite Materials, Harbin Institute of Technology, China; China	NNF 4656, Oral, Thermal stability of CrZrSiN/AlN and CrZrN/Si3N4 multilayer coatings synthesized by closed field unbalanced magnetron sputtering LEE Sangyul; Korea Aerospace University; Korea (south)	OFN4290 ORAL Characteristics of Enhancement-Mode Si MOSFET with MOCVD-TiO2 as Gate Oxide Improved by Oxygen Oxidation and Fluorine Passivation Ming-Kwei Lee, Chih-Feng Yen (Department of Electrical Engineering, National Sun Yat-sen University, Taiwan)	FPT 4316, Oral, The crystallized mechanism and the optical properties of ZnO films by sol gel method Aksoy Seval; Caglar Yasemin; Ilican Saliha; Caglar Mujdat Department of Physics, Anadolu University; Turkey	ODF 4973, Oral, Electrical characteristics of CVD diamond SBD and the effects of photo irradiation Nopporn Rujisamphan1;Worawan Bhanthumnavin2; Boonchoat Paosawatyanyong1 1Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok; Thailand 2Department of Chemistry, Faculty of Science, Chulalongkorn University,
	14:00	14:15	0:15	NA	4567;The influence of cross-section shape of carbon fiber on microwave absorbing property;Wang Rongguo, Liu Xin, Liu Wenbo, Wang Bo;Center for Composite Materials and Structure, Harbin Institute of Technology, China	MPF 4255, Oral, Structural and mechanical properties of biased monolayer and multilayer diamond-like carbon synthesized by magnetron sputtering Zhang Sam1;Li Feng1; Kong Junhua2; Zhang Yujuan1; Zhang Wei1; Zhang Xiaonin1; Wang Yuxi1 1School of Mechanical and Aerospace Engineering, Nanyang Technological University; Singapore 2School of Material Science Engineering, Nanyang Technological University;Singapore	NNF 4658, Oral, Formation of Gold Nanoparticles in Silicon Suboxide Films Prepared by Plasma Enhanced Chemical Vapour Deposition Chan Kee Wah;Aspanut Zarina; Muhamad Muhamad Rasat; A. Rahman Saadah Department of physics, University of Malaya; Malaysia	OFN4101 ORAL Investigation of Post-Deposition Annealed Lanthanum Cerium Oxide Gate Prepared by Metal-Organic Decomposition (MOD) Method on Silicon Substrate Lim Way Foong, Cheong Kuan Yew, Lockman Zainovia (Energy Efficient & Sustainable Semiconductor Research Group, School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia, Malaysia)	FPT 4030, Oral, Thin Film of Nb2O5 Nanowalls with Controlled Thickness and Texture Liu Fei; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology, 158 Zhongshan Road, Dalian 116012; China	ODF 4987, Oral, A fabrication of surface-relief Bragg grating filter on the D-shaped fiber Wei-Ching Chuang1;Kun-Yi Lee2; Yen-Juei Lin2; Wei-Yu Lee2 1Electro-Optics Engineering Dept., National Formosa University; Taiwan 2Electrical Engineering Dept., China University of Science and Technology;Taiwan
	14:15	14:30	0:15	NA	4580;Influence of the bonding layer mixed with Al powders on the bonding strength of PbSn coating deposited on carbon fiber reinforced epoxy composites;Rongguo Wang, Dajun Song, WenBo Liu;Center for Composite Materials and Structure, Harbin Institute of Technology, China	MPF 4287, Oral, Mechanical properties of conductive thin films on various substrates deposited by ink-jet printing Li Tsai-Cheng; Department of Mechanical and Computer-Aided Engineering, St. John's University; Taiwan	NNF 4660, Oral, Influence of Ag/In Additives and Crystallization on Sheet Resistivity Associated with the Size Effect of Amorphous SbTe Chalcogenide Films Yang Chung-Wei1;Lui Tsuan-Sheng2 1Department of Materials Science and Engineering, National Formosa University; Taiwan 2Department of Materials Science and Engineering, National Cheng Kung University;Taiwan	OFN4649 ORAL Microstructural analysis and opto-electronic properties of Cu2O/Cu2O(Ag) multilayered nanocomposite thin film C. C. Tseng, J. H. Hsieh, W. Wu (Dept. of Materials Science and Engineering, National Chung Hsing University, Taichung, Taiwan)	FPT 4142, Oral, Structural characteristics of sputter-deposited BiFeO3/LaNiO3 artificial superlattices Liu Yen-Ting1; Lee Hsin-Yi3; Chen San-Yuan2 1Program for Science and Technology of Accelerator Light Source, National Chiao Tung University; Taiwan 2Department of Materials Science and Engineering, National Chiao Tung University; Taiwan 3National Synchrotron Radiation Research Center; Taiwan	ODF 5006, Oral, Effect of technological conditions on microstructure of Ni-Cr/SiO2 glass composite film optical attenuation Tang Hui1;Wu Yongbin2; Zhang Jianfeng3 1School of Material Science & Engineering, Harbin University of science and Technology, China 2Center for Composite Materials and Structures, Harbin Institute of Technology;China 3School of Material Science & Engineering, Harbin University of science and
	14:30	14:45	0:15	NA	4595；Research on the interlaminar shear strength of 3D interlocked woven composites，Ying Sun, Diantang Zhang, Li Chen, Jialu Li，Key Laboratory of Advanced Textile Composites, Ministry of Education,Tianjin Polytechnic University, China	MPF 4269, Oral, Effects of residual stresses of ITO/PC on mechanical properties measured by nanoindentation Chao Ching-Kong1;Chang Rwei-Ching2 1Department of Mechanical Engineering, National Taiwan University of Science and Technology; Taiwan 2Department of Mechanical and Computer-Aided	NNF 4682, Oral, Effects of the sputtering power on the structural properties of silicon films Tian Gui;Zhu Jiaqi; Zhu Yuankun; Han Jiecai Center for Composite Materials, Harbin Institute of Technology, Harbin, 150080; China	OFN4309 ORAL Fabrication of Al-doped ZnO nanorod arrays thin films and device with enhanced conductivity by hydrogen treatment Chih-Hsiung Hsu, Dong-Hwang Chen (Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan, Taiwan)	FPT 4988, Oral, Preparation of Pressure-sensitive Conductive Composite Materials Zhao Wen; Li luhai; Zhao changlei; Wang zhiyi; Li gi; Yu xiaowei1 Lab of Printing & Packaging Material and Technology , Beijing Institute of Graphic Communication; China	ODF 5023, Oral, Analysis of Wide Band Gap and Co-doped ZnO Films by PLD Xueqiong Su;Li Wang; Jiangbo Chen; Xiaojing Wan; Le Kong College of Applied Sciences, Beijing University of Technology; China

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14:45	15:00	0:15	NA	4621;Nano-modification of thermostability of PSAs;Mingyan ZHANG, Guanhui WANG, Yi WANG, Peng YU, Jihua WANG;College of Material Science & Engineering, Harbin University of Science and Technology, China	MPF 4285, Oral, Measuring substrate-independent Young's modulus of thin films HAY Jennifer1;TSUJI Yoshinobu2; YATA Kouzou3 1Nano Measurements Operation, Agilent Technologies; USA 2Institute for Chemical Research, Kyoto University;Japan 3Analytical Systems Department, TOYO Corporation;Japan	NNF 4683, Oral, The Effect of Titanium Current on Structure and Hardness of Aluminium Titanium Nitride Deposited by Reactive Unbalanced Magnetron Co-Sputtering Buranawong Adisorn1;Witit-anun Nirun3; Chaiyakun Surasing3; Limsuwan Pichet1 1Physics Dept., Faculty of Science., King Mongkut's University of Technology Thonburi; Thailand 3Vacuum and Thin films Research Laboratory, Physics Dept, Faculty of Science, Burapha	OFN4494 ORAL Carrier Activation of Sol-gel Derived ZnO Films Using Co-doping Method Keh-moh Lin (Department of Mechanical Engineering, Southern Taiwan University, Taiwan)	FPT 4293, Oral, Crystallization of Oriented Sodium Niobate Thin Films Wu Junshu; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology; China	ODF 4984, Oral, The Role of Annealing Temperature on the Physical Properties of Thermally Deposited CdTe Films ALIAS Mayoon;RAZOOQI Muhamed; AL-MATOOQ Rash; AL-DOURI Ala; ALNAJJAR Abdulla Physics Dept.,science college,university of baghdad; Iraq
15:00	15:15	0:15	NA	4668;Effect of hygrothermal environment:characterization by Scaning Electron Microscope(SEM)and Interlaminar Shear Strength(LSS);Rongguo Wang, Long Jiang, Xinying Lv, Wenbo Liu;Center for composite materials and structures,Harbin Institute of Technology, China	MPF 4109, Oral, Effects of Electrical cycling on interfacial properties of RuO2 anode film in lithium ion microbatteries Zhu Jing;Zeng Kaiyang; Lu Li Department of Mechanical Engineering, National University of Singapore; Singapore	NNF 4708, Oral, Large memory window and good thermal stability ir nanocrystals lying on Si3N4/SiO2 buffer layer for nonvolatile memory application Wang Teryl;Chen Chao Jui2; Teng I Ju1; Liu Chien Min1; Kuo Cheng Tzu3 1Department of Materials Science and Engineering, National Chiao Tung University; Taiwan 2Institute of Nanotechnology, National Chiao Tung University;Taiwan	OFN4349 ORAL Structural, Optical and Electrical Characteristics of Al-doped ZnO thin films obtained by spray pyrolysis Hosein Eshghi, Mojtaba Mahmudzadeh Pirvahshi (Department of Physics, Shahrood University of Technology, Shahrood, Iran)	FPT 5050, Oral, A selective optode membrane for Palladium(II) ion in solution by encapsulation of derivative of phthalocyanine into a sol-gel matrix Faraşır Meryem Nilüfer1; Kandaz Mehmet1; Güney Orhan2 1Department of Chemistry, Sakarya University, 54140 Esentepe, Sakarya, Turkey 2Departmenet of Chemistry, Istanbul Technical University, 34469, Istanbul; Turkey	ODF 4983, Oral, Micro-optical fabrication on chalcogenide thin films – A Review Chauhan Rashmi1;Srivastava Amit2; Tripathi Arvind3; Mishra Madhu4; Srivastava Krishna5 1Rashmi Chauhan (Dept. of Physics, DAV College, Kanpur); India 2Amit Kumar Srivastava (Materials Science Programme, IIT Kanpur);India 3Arvind Tripathi (Epsilonim Systems, Kanpur);India 4Madhu Mishra (Dept. of Physics, DBS
15:15	15:30	0:15	NA	4696;All-Solid-State Reference Electrode Based on Polymer Composites for Corrosion Monitoring of Steel in Concrete;Qiao Guofu, Hong Yi, Chen Song, Song Guangqing, Ou Jinping;School of Hydraulic and Civil Engineering, DaLian University of Technology, China	MPF 4434, Oral, Microstructure and nano-scratch behaviors of La0.75Sr0.25MnO3 films Jiang Shaoqun1;Ma Xinxin2; Tang Guangze2; Wang Gang2; Wang Zehua1; Zhou Zehua1 1College of Mechanics and Materials, Hohai University; China 2School of Materials Science and Engineering, Harbin Institute of Technology;China	NNF 4809, Oral, Physical Characteristics of Amorphous Carbon Films Prepared by Plasma Enhanced Chemical Vapour Deposition Rashid Nur Maisarah Abdul;Ritikos Richard; Khanis Noor Hamizah; Othman Maisara; Gani Siti Meriam Ab. Muhamad Muhamad Rasat1; Rahman Saadah Abdul1 Solid State Research Laboratory, Department of Physics, University of Malaya; Malaysia	OFN4464 ORAL Electrical characterization of TiO2 nano particle thin films deposited on semiconducting substrates Uma Ullas Pradhan, Naveen Kumar S K (Department of Electronics, Mount Carmel College, Bangalore, India)	oral	ODF 4676, Oral, The Effect of annealing temperature gradient time on stress induced laser damage threshold of ZrO2 optical thin films BANANEJ Alireza1;HASSANPOUR Amir2; VAEZ ZADE Mehdi2; NAJAFI Farzad1 1Laser and Optics Research School, NSTRI; Iran 2Physics Dept., Khaje Nasireddine Toosi
session oral				8	8	8	8	8	8	8
total orals so far				41	41	41	41	41	41	41
15:30	15:50	0:20	NA	TEABREAK	TEABREAK	TEABREAK	TEABREAK	TEABREAK	tea break	tea break
			NA	COMPO9 session chair, prof. Hui Chen, Harbin FRP Institute, Harbin ,China	MPF3 session chair: ZHOU Fei, Nanjing University of Aeronautics and Astronautics, China	NNF6 session chiar Professor Lee Ching-Ting Institute of Microelectronics, Department of Electrical Engineering, Center for Micro/Nano Science and Technology, National Cheng Kung University, Tainan 701, Taiwan, Republic of China; Taiwan	OFN5 Chairs: Prof. Xue Jun Min (NUS, Singapore) and Prof. David Kisailus (University of California, Riverside, USA)	FPT4,Session chairs: Professor Song Jen-Hao and Dr. Yang Feng	ODF6 session chair: Professor Xiaodong Ho Center for Composite Materials and Structures, Harbin Institute of Technology, China
15:50	16:15	0:25	NA	COMPO4070(invited);Carbon fibre and Carbon nanotube as conducting additives for polyether ether ketone;Balasubramanian Kandasubramanian;UK Materials Research Institute, Pera Innovation Park, Melton Mowbray, United Kingdom	MPF 4996, Oral, Toughness evaluation of nanocomposite nc-TiCla-C (Ni) through nanoindentation with energy approach Wang Yuxi;Zhang Sam; Wang Huili; Zhang Xiaomin School of Mechanical and Aerospace Engineering, Nanyang Technological University; Singapore	NNF 4444, Invited Lecture, Resistive switching in a Ni-rich nickel oxide thin film Liu Y.1;Chen T. P.2; LIU Z.2; Yang M.2; S. Zhang3 1State Key Laboratory of Electronic Thin Films and Integrated Devices, University of Electronic Science and Technology of China, Chengdu, China; China 2School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore	OFN4248 INVITED ZnO Nanoaprticles for Cell labelling Jun Min Xue (Department of Materials Science and Engineering, National University of Singapore, Singapore)	FPT 4654, Invited Lecture, Using Piezoelectric (B, Al)N film on Diamond Substrate to Enhance SAW Device Resonance Frequency Song Jen-Hao 1; Huang Jow-Lay1; Omori Tatsuya2; Sung James C.3; Wu Sean4; Lii Ding-Fwu5 1Department of Materials Science and Engineering, National Cheng-Kung University; Taiwan	ODF 4644, Oral, Multi-Phase Structured Silicon Carbon Nitride Thin Films Prepared by Hot-Wire Chemical Vapor Deposition Badaruddin Ragib;Muhamad Muhamad Rasat; Abdul Rahman Saadah Low Dimensional Materials Research Centre, Department of Physics, University of Malaya; Malaysia
16:15	16:30	0:15	NA	4483;Research on Mechanical Behavior of Concrete Beams strengthened with Polymer carbon fiber material;chunling zhong;Jilin Architecture and Civil Engineering Institute，Changchu, China	MPF 4175, Oral, Wrinkling Analysis of Membrane Conical Inflated Cantilever Beam in Bending Wang Changguo;Du Zhenyong; Tan Huifeng Center for Composite Materials, Harbin Institute of Technology; China	NNF 4710, Oral, Single-wall Carbon Nanotube Employed as Container in Self-healing Materials Liu Yang;Rongguo Wang; Wenbo Liu Center for Composite Materials and Structures, School of Materials Science and Engineering, Harbin Institute of Technology, Harbin; China	OFN4294 INVITED Fine Control over the Morphology and Structure of Oxide Nanomaterials toward Varied Applications Junhui He (Functional Nanomaterials Laboratory, Technical Institute of Physics and Chemistry, CAS, China)	FPT 5044, Oral, The relations between passive layer and three basic failure modes of ferroelectric thin films Yang Feng; Liu Fen; Zhou Yichun Faculty of Material, Optoelectronic and Physics, Xiangtan University, Hunan 411105, China	ODF 4069, Oral, Synthesis and Optoelectrical Studies on Cd1-xMnxS Diluted Magnetic Semiconductor Thin Films Dargad Jaiprakash1;Deshmukh Lalasaheb2 1Physics Dept., Dayanand Science College, Latur, (MS), India; India 2Physics Dept., Solapur University, Solapur,
16:30	16:45	0:15	NA	4487;Compressive property of basalt fiber in composite with nano-indentation;Tong LILI, Zhou LIMIN, Teng JINGUANG;school of astronautics and civil engineering, Harbin Engineering University, China	MPF 4274, Oral, Fracture behavior of multi-layered thin films on elastic substrate under residual tensile stress Yang Ban-Quan1;Li Fa-Xin1 1LTCS and College of Engineering, Peking University; China	NNF 4717, Oral, Oxidation and hot corrosion resistance of atmospheric plasma sprayed conventional and nanostructured zirconia coatings Keyvani Ahmad;Mohsen Saremi; Mahmoud Heydarzadeh Sohi School of Metallurgy and Materials Engineering, University College of Engineering, University of Tehran; Iran	OFN4056 ORAL ZnO Nanostructures Formed by Solution Growth Nanosphere, Nanorod, and Nano-brush, and the Substrate Effects Linda Wu, Liu Jean, Goei Ronn, Tok Alfred (Singapore Institute of Manufacturing Technology, Singapore)	FPT 4397, Oral, Effects of sputtering conditions on Mo bottom-electrode layer and its influence on the subsequently sputtered AlN piezoelectric thin film CHERNG J.S.; CHEN T.Y.; LIN C.M. Dept. Materials Engineering, Mingchi University of Technology; Taiwan	ODF 4166, Oral, Degradation in Optical Reflectance of Al film Mirror Induced by Proton Radiation Wei Qiang1;Liu Hai2; Wang Dan3; Liu Sheng;Xian4 1-Tianjin Key Laboratory of Composite and Functional Materials，School of Materials Science and Engineering; China 2Space Materials and Environment Engineering Laboratory, Harbin Institute of
16:45	17:00	0:15	NA	4106;Residual Stresses Characterization for Laminated Composites;zhansheng Guo;Shanghai Institute of Applied Mathematics and Mechanics, Shanghai Univeristy, China	MPF 4353, Oral, Fracture characteristics of thermal barrier coating system after high temperature oxidation by modified four-point bending tests Pengfei Zhao;Xiaodong Li; Fulin Shang Engineering Mechanics Dept., Xi'an Jiaotong University; China	NNF 4744, Oral, NaCl-particle induced atmospheric corrosion of Nd16Fe71B13/Mo films Li Chunling;Ma Yuantai; Li Ying; Wang Fuhui State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences; China	OFN4978 ORAL Pure inorganic protective silica coating on stainless steel prepared at low heat treatment temperature Taejin HWANG, Hohyeong KIM, Gyuntak KIM, HeungYeol LEE (Surface technology and heat treatment R&D division, Korea Institute of industrial Technology, Korea (south))	FPT 4673, Oral, Enhancement of pyroelectric effect by TiO2 in PVDF Gan Wee Chen; Abd Majid Wan Haliza Physics Dept., University of Malaya; Malaysia	ODF 4463, Oral, Fabrication of a thin film capacitor sensor using doped and un- doped TiO2 as a dielectric material S K Naveen Kumar1;Pradhan Uma Ullas2 1Department of Electronics, University of Mysore, Hassan; India 2Department of Electronics, Mount Carmel
17:00	17:15	0:15	NA	4145；Multi-scale Carbon Nanotube-Carbon Fiber Reinforcement for Advanced Epoxy Composites with High Interfacial strength；Lei Mei, Yibin Li, Chao Wang, Qingyu Peng, Rongguo Wang, Xiaodong He；Center for Composite materials and Structures, Harbin Institute of Technology, China	MPF 4477, Oral, Mechanical analysis of multi-layer thin films/substrate system using a zigzag model MENG XIANHONG1;LI MING2 1School of aeronautics science and engineering, Beihang University, China 2State Key Laboratory of Structural Analysis for Industrial Equipment, Dalian University of Technology;China	NNF 4762, Oral, Effects of methane and nitrogen flow rate ratio on the formation of carbon nitride nanostructures deposited by radio frequency plasma enhanced chemical vapour deposition Ritikos Richard;Rahman Saadah Abdul; Muhamad Muhamad Rasat; Gani Siti Meriam Ab. Solid State Research Labaratory, Department of Physics, University of Malaya.; Malaysia	OFN4986 ORAL Crystal Growth Mechanisms in Biologically-inspired hydrothermal synthesis of titanium dioxide nanostructures Dongsheng Li, Nichola Kinsinger, Ashley Wong, Fabian Villalobos, John Johnson, Luke Chen, David Kisailus (Department of Chemical and Environmental Engineering, USA)	FPT 4523, Oral, Ion irradiation induced long range effect on surface segregation Zhang Li1; Tang Guangze2; Ma Xinxin3 1School of Materials Science and Engineering, Harbin Institute of Technology; China 2School of Materials Science and Engineering, Harbin Institute of Technology; China 3School of Materials Science and Engineering & State Key Laboratory of Advanced Welding Production Technology, Harbin Institute of	ODF 5035, Oral, Effect of Crystalline Phase on Dielectric Properties of the Plasma Sprayed Al2O3 Coatings Gao Jianyi1;Cheng Xiao2; Gao Yang2 1School of Electronics and information Engineering, Harbin Institute of Technology; China 2Department of Materials and machine, Dalian Maritime University;China
17:15	17:30	0:15	NA	4146;Effect of different aluminum surface treatments on interfacial adhesion strength of epoxy/dendrimer/metal laminated composites;Peng Qingyu, Li Yibin, He Xiaodong, Mei Lei, Wang Rongguo;Center for Composite Materials and Structures, Harbin Institute of Technology, China	MPF 4728, Oral, Theoretical Analysis on Thermal Mechanical Response of Microscale Functional Film for an Infrared Window LIU Xing1;ZHU Jiaqi1; WANG Xinzhi2; HAN Jiecai1 1Center for Composite Materials,Harbin Institute of Technology; China 2School of Energy Science and Engineering,Harbin	MalaysiaNNF 4313, Oral, Mechanism of Electrical Conduction in Thin Nanostructured CuSe Absorber Layers. DESHMUKH LALASAHEB; Physics Department(Applied Electronics),Solapur University,Solapur; India			ODF 5043, Oral, Characterizing the functions and structures of thin films at nanometer resolution Sun Wanxin; Veeco Asia Pte Ltd, 11 Biopolis Way #10-05/06, The Helios, Singapore 138667; Singapore
session oral				6	6	6	6	6	6	6
17:30	19:00	1:30	moving to dinner	moving to dinner	moving to dinner	moving to dinner	moving to dinner	moving to dinner	moving to dinner	moving to dinner
19:00	22:00	3:00	dinner							
total orals so far				47	47	47	47	47	47	47

			Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010	Day 3: 14th July 2010
				Room: 2E-1	Room: 2E-2	Room: 3E-1	Room: 3E-2	Room:5F-1	Room:5F-2	
				COMPO10, session chair, Yao Li , Center for composite materials,Harbin Institute of Technology, China	MPF4 session chair: ZENG Kaiyang, National University of Singapore	IECT3	OFN6 Chairs: Prof. Mohammed Es-Souni (UAP Kiel, Germany) and Dr. Linda Wu (SIMTECH, Singpore)	FPT5,Session chairs: Professor Sritharan Thirumany and Dr. Liu Fei	CCE1, Session Chair, Seigo Ito,University of Hyogo, Japan	
8:30	8:55	0:25	NA	COMPO4078 (invited);Interfacial Optimization of Acetate Taffeta Fabric/PLA Composites;Byung Sun Kim, Mimi Kim, Jong Rok Ha, Seul Ki Kim, Joong Yeon Lim, Woo Il Lee;Composites Mat'ls Lab, Korea Institute of Materials Science, Korea (south)	MPF 4066, Invited Lecture, Syntheses of superhard hexagonal tungsten carbide films by N alloying Zheng Weitao; Department of Materials Science, Jilin University, China	SCT 4853, Invited Lecture, Superhydrophilic TiO2 nanorods on titanium and their antibacterial activity Lingping Zhong, Kui Cheng, Wenjian Weng, Chentu Dong, Piyi Du, Ge Shen, Gaorong Han Department of Material Science and Engineering, Zhejiang University, China	OFN4236 INVITED ZnO nanostructures: from macro-mesoporous thin films to nanorods and nanobelts Feng Zhao, Salah Habouti, Robert Mech, Mohammed Es-Souni (IMST, UAP Kiel, Germany)	FPT 4105, Invited Lecture, FIELD INDUCED PHASE TRANSFORMATION IN LANTHANUM-MODIFIED LEAD ZIRCONATE STANNATE TITANATE THIN FILMS Sharifzadeh Mirshekarloo Meysam1; Yao Kui2; Sritharan Thirumany1 1School of Materials Science & Engineering	(invited-4128)Printed Solar Cells,Seigo Ito,University of Hyogo, Japan	

8:55	9:10	0:15	NA	4407;The evaluation method of stress transfer efficiency on monofilament composite interfaces;Boming Zhang, Xinyang Sun;Center for Composites and Structure, Harbin Institute of Technology, China	MPF 4302, Oral, Microstructures and Mechanical Properties of Multi-component (AlCrTaTiZr)NxCy Nanocomposite Coatings Lin Shao-Yi;Chang Shou-Yi Department of Materials Science and Engineering, National Chung Hsing University; Taiwan	BCT 4218, Oral, Effect of Citric Acid on the Formation of Ca-P Coating on NiTi Alloy Surface in biomimetic growth Qiang Wei, shengxian Liu, Dan Wang, Xianjin Yang Tianjin Key Laboratory of Composite and Functional Materials，School of Materials Science and Engineering, China	OFN4306 ORAL High Performance Thin Film Transistors with Trinal Target Co-sputtered Indium Gallium Zinc Oxide Channel Mu-Min Chang, Ching-Ting Lee, Hsin-Ying Lee (Institute of Microelectronics, Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan)	FPT 4370, Oral, Study of electrical and magnetic properties of LuFe2O4 thin films Liu Jun; Huang Wen; Dai Ji-yan Department of Applied Physics, the Hong Kong Polytechic University; Hong Kong	(4188)Fabrication of Hydrogenated Amorphous Silicon-Germanium Tandem Solar Cell by 40 MHz Plasma-Enhanced Chemical Vapor Deposition, Yu-Hung Chen, Yen-Yu Pan, Chun-Ming Yeh, Chun-Heng Chen, Yi-Chan Chen, Photovoltaics Technology Center, Industrial Technology Research Institute, Taiwan
9:10	9:25	0:15	NA	4411;Quasi static compressive and low-impact response of carbon fiber sandwich panels with 8-truss Kagome cores;Xiong Jian, Wu Linzhi, Ma Li, Vaziri Ashkan, Liu Jiayi;Center for Composite Materials and Structures, Harbin Institute of Technology, China	MPF 4624, Oral, Structure and nanomechanical properties of diamond-like carbon films prepared by middle frequency plasma chemical vapor deposition Wang Yajun1;Ma Xinxin1; Tang Guangze13; Guo Guangwei14 1School of Material Science & Engineering, Harbin Institute of Technology; China	BCT 4800, Oral, Hemocompatibility of titanium dioxide nanoparticles composite polytetrafluorethylen coating for biomedical devices lili Xue, ping long, pengyu Zhao, huan Wei, ying Ling Center for Biomedical Materials and Engineering, Harbin Engineering University,, China	OFN4816 ORAL ZnO/In/ZnO multilayers as transparent conducting thin films Lechun Ji, Yang Liu, Yiqun Xie, Feng Liu, Wangzhou Shi, Aiyun Liu, Lei Huang (Department of Physics，Shanghai Normal University, China)	FPT 4378, Oral, Effect of the lead on Ag nanoparticles formation in Ag-Lead titanate composite thin films Du Piyi; Wang Zongrong; Hu Tao; Tang Liwen; Shen Ge; Song Chenlu; Han Gaorong Department of Materials Science and Engineering, Zhejiang University; China	(4288)The fabrication of HIT type silicon quantum dot solar cells by magnetron sputtering, Lihua JIANG, Xiangbin ZENG, Xiao ZHANG, Xiaojin WANG, Qiankun CHEN, Department of Electronic Science and Technology, Huazhong University of Science and Technology, China
9:25	9:40	0:15	NA	4412;Preparation and characterization of multi-core microcapsules containing epoxy resin;Honglin Hu, Rongguo Wang, Xiaodong He, Wenbo Liu, Yibin Li;Center for Composite Materials and Structure, School of Astronautics, Harbin Institute of Technology, China	MPF 4652, Oral, Texture, microstructure and tribological behavior in multilayered TiAlN/SiNx coatings Chan Yu-Chen1;Tsai Yan-Zuo1; Duh Jenq-Gong1; Tsai Su-Yueh2; Lee Jyh-Wei3 1Department of Material Science and Engineering, National Tsing-Hua University; Taiwan 2Precision Instrument Center, National Tsing-Hua University;Taiwan	BCT 4445, Oral, Stabilities of Suspending Liquid Crystal Thin Film for the Mechanical Properties of Cell membrane Ou Chung-Jen, Ou C.H, Young S.L, Chen H.Z., Ou C.M, Shen Ching-I Department of Electrical Engineering, Hsiuping Institute of Technology, Taiwan	OFN4576 ORAL Preparation of Sb-doped ZnO nanostructures on Si substrate by seed-layer assisted solution route Qian Li, Kui Cheng, Wenjian Weng, Chenlu Song, Piyi Du, Ge Shen, Gaorong Han (Department of Materials Science and Engineering, Zhejiang University, China)	FPT 4029, Oral, Thin Film of ZnO Microtubular Arrays Formed by a Colloid Templating Nanowire Coalescence Process Liu Fei; Xue Dongfeng Department of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology, 158 Zhongshan Road, Dalian 116012; China	(4396)Effects of process conditions on nc-Si:H prepared by pulsed-DC magnetron sputtering, J.S. CHERNG, S.H. CHANG, S.H. HONG, Dept. Materials Engineering, Mingchi University of Technology, Taiwan
9:40	9:55	0:15	NA	4440;Manufacturability analysis of composite component and its evaluation methodology;jingjie cong, boming zhang, jia yu;Center for Composite Materials and Structure,Harbin Institute of Technology, China	MPF 5002, Oral, Structural and mechanical properties of alternately biased multilayer diamond-like carbon synthesized by magnetron sputtering Li Fengji1;Zhang Sam1; Kong Junhua2; Zhang Yujuan3; Zhang Wali1 1School of Mechanical and Aerospace Engineering, Nanyang Technological University; Singapore 2School of Material and Science Engineering, Nanyang Technological University;Singapore 3Key Laboratory of Special Functional Material, Henan University;China	BCT 4779, Oral, Biodegradable coating on dental implant using an electro-spraying method Woo-Hyun Kim, Seung-Kyun Moon, Sang-Bae Lee, Kwang-Mahn Kim, Kyoung-Nam Kim BK 21 project, Department and Research Institute of Dental Biomaterials and Bioengineering, College of Dentistry, Yonsei University, Korea (south)	OFN4377 ORAL Influence of ZnO nanorods on the preferred growth of Cu2O thin film Jhin-Wei Chen, Dung-Ching Perng, Jia-Feng Fang, Rung-Yuan Lee (Institute of Microelectronics, National Cheng Kung University, Taiwan)	FPT 4551, Oral, Influence of bottom electrodes on the structural, dielectric and ferroelectric properties of Pb(Zr0.52Ti.048)O3 thin films Choudhary Nitin; Kumar Ashvani; Kaur Davinder Department of Physics and Center of Nanotechnology, Indian Institute of Technology Roorkee; India	(4068)High efficient Si nano-textured light-emitting diodes and solar cells, manufactured and integrated by advanced CMOS semiconductor process, with obvious photonic crystal effect,Chang S. T., National Chung-Hsing University, Taiwan
9:55	10:10	0:15	NA	4441;Effect of microcapsules and catalyst on self-healing epoxy material performance;Haiyan Li, Rongguo Wang, Wenbo Liu, Xiaodong He;Center for Composite Materials and Structures, Harbin Institute of Technology, Harbin 150001, P.R. China, China	MPF 4999, Oral, Effect of substrate bias on structures and properties of tetrahedral amorphous carbon films huili wang1;sam zhang1; deen sun2; shunong fang2; jinwei zhang2 1School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore 639798; Singapore 2Singapore Epson industrial PTE LTD, Singapore	BCT 4659, Oral, Release behaviors of drug loaded chitosan/Ca phosphate coatings on titanium Jiabei Zhou, Kui Cheng, Wenjian Weng, Chenlu Song, Piyi Du, Ge Shen, Gaorong Han Department of Material Science and Engineering, Zhejiang University, China	OFN4939 ORAL Growth and Characterization of ZnO Nanowire Structures Prepared by Hydrothermal Synthesis Technique Shr-Nan Bai, Shich-Chuan Wu (Department of Electronic Engineering and Institute of Electronic, Chienkuo Technology University, Taiwan)	FPT 4734, Oral, Electrocaloric Effect in Highly (100)-oriented Pb0.97La0.02(Zr0.95Ti0.05)O3 Antiferroelectric Thin Films Sun Qiu1; Ye Mao1; Chen Xiangqun2; Wang Fuping1 1School of Chemical Engineering and Technology, Harbin Institute of Technology; China 2School of Materials Science and Engineering,Harbin Institute of Technology; China	(Invited)ALD (Atomic Layer Deposition) for energy applications, Jarmo Maula, Beneq Oy, Finland
session oral			6	6	6	6	6	6	6
total orals so far			53	53	53	53	53	53	53
10:10	10:30	0:20	NA	Teabreak poster	Teabreak poster	Teabreak poster	Teabreak poster	tea break	teak break
			NA	COMPO11, session chair, Prof. Kazuro Kageyama (The University of Tokyo, Japan)	MPF5 session chair: ZHENG Weitao, Department of Materials Science, Jilin University, China	OPF1 Organic Thin Films, session chiar Professor Li Jianchang Northeastern University, Shenyang, China	OFN7 Chairs: Prof. Xue Dongfeng (Dalian University of Technology, China) and Dr. Le Hong Quang (IMRE, Singapore)	ONF2	CCE2, Session Chair, Katsuhiro AKIMOTO, Institute of Applied Physics, University of Tsukuba, Japan
10:30	10:55	0:25	NA	COMPO4111(invited);DEVELOPMENT OF AN ANALYSIS METHOD FOR CRACK-RESISTANT CLOSEOUT JOINTS OF COMPOSITE SANDWICH PANELS FOR FLIGHT VEHICLES APPLICATIONS;Sergey REZNIK, Elena BOBKOVA;Bauman Moscow State Technical University, Russian Federation	MPF 4342, Invited Lecture, Microstructure, corrosion and mechanical properties of (Ti, Al)N coatings deposited by arc ion plating XIN Li;WANG Fuhui State key Laboratory for Corrosion and Protection of Metals, Institute of Metal Research, CAS; China	OPF 4401, Invited Lecture, Strategies for bottom-up nanofabrication of organic photovoltaic films using particle lithography with organosilanes Garno Jayne1;Yu Jing-Jiang2 1Chemistry Department, Louisiana State University; USA 2Nanotechnology Measurements Division, Agilent	OFN4023 INVITED Crystallization Research on Micro- and Nanostructures of Inorganic Oxides Dongfeng Xue, Congting Sun, Guanjia Zhu, Kunfeng Chen (Dept. of Materials Science and Chemical Engineering, School of Chemical Engineering, Dalian University of Technology, China)	4269 (invited) Colloidal Photonic Crystals with Complex Structures,Qingfeng Yan, Jie Yu, Dezhong Shen,Department of Chemistry, State Key Laboratory of New Ceramics and Fine Processing,Tsinghua Universtiy, China	(invited-4376)Control of properties of molecule/electrode interfaces in high-efficient organic solar cells, Akeaki SAKURAI, Susumu TOYOSHIMA, Mahesh Datt BHATT, Katsuhiro AKIMOTO, Institute of Applied Physics, University of Tsukuba, Japan
10:55	11:10	0:15	NA	4242;Effects of Additives on Mechanical Properties and Photo-Stability of Filament-Wound Glass Fiber Reinforced Epoxy Pipes;Chiravoot PECHYEN;Department of Packaging Technology and Materials, Faculty of Agro-Industry, Kasetsart University, 10900, Thailand	MPF 4021, Oral, The thermal stability of Ceramic Composite Coating Containing ZrO2 –Al2O3 on Ti6Al4V by Plasma Electrolytic Oxidation sun weiwei1;li weijing1; cui shihai2; han jianmin1; wang jinhua1 1Engineering Research Center of Structure and Operation Measurement Technology of Rail Guided Vehicles of Minister of Enducation, Beijing Jiaotong University, Beijing 100044, China; China 2College of Mechanical Engineering, Tianjin University of Science and Technology, Tianjin	OPF 4278, Oral, An environment-friendly conversion coating for AZ91D magnesium alloy by a phytic-acid solution Hu Lan12;Liu Li1; Geng Shujiang2; Li Ying1 1State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences; China 2School of Materials and Metallurgy, Northeastern University;China	OFN4119 ORAL WO3 nanotree films prepared by a hydrothermal method and their electrochromic behavior Jun Zhang, Jiangping Tu, Xinhui Xia, Xiuli Wang, Changdong Gu (State Key Laboratory of Silicon Materials, Department of Materials Science and Engineering, Zhejiang University, China)	4034;Construction of three dimensionally ordered macroporous materials based on template assisted method;YAO LI;HARBIN INSTITUTE OF TECHNOLOGY, China	(4859)Electrical Properties of Tin Sulphide based Solar Cells, Ogah Ogah, Kotte Ramakrishna Reddy, Guillaume Zoppi, Ian Forbes, Robert Miles, Northumbria Photovoltaics Applications Centre, Northumbria University,Newcastle,NE1 8ST, United Kingdom
11:10	11:25	0:15	NA	4263;Investigation of strengthening mechanism and interfacial interaction of polymer nanocomposites by experiment and molecular simulation;Liqun Zhang, Jun Liu, Zhenhua Wang, Sizhu Wu;Beijing University of Chemical Technology, China	MPF 4185, Oral, Oxidation resistance of B-doped SiO2 thermal protective coatings by hybrid sol-gel method Zhao Xiao;He Xiaodong; Zhang Sam; Li Mingwei; Li Yibin School of Astronautics, Harbin Institute of Technology; China	OPF 4517, Oral, Characterization of composite SiOx/polymer films deposited on PET substrates by RF reactive magnetron sputtering LIU Zhuang1;MA Xinxin1; YANG Chunli2; XU Fangjun1 1School of Material Science and Engineering, Harbin Institute of Technology; China 2School of Light Industry, Harbin University of	OFN4121 ORAL Study on the formation micromechanism of TiO2 nanotubes on pure titanium and the role of fluoride ions in electrolyte solutions Yanqin Liang, Zhenduo Cui, Shengli Zhu, Xianjin Yang (School of Materials Science and Engineering, Tianjin University, China)	4081;Hetero-pore Sized micro/nanoarchitectured porous films and Their Structurally Induced Controllability of Gas Sensing Performance;Weiping Cai, Lichao Jia;Key Lab of Materials Physics, Institute of Solid State Physics, Chinese Academia of Sciences, China	(4856)Fabrication of CNT/NiO nano-composite thin films for optically selective solar absorbers, Brian Yalisi, Roro Kittessa, Andrew Forbes, Ngcali Tile, Brian Yalisi, CSIR-National Laser Centre, P.O. Box 395, Pretoria 0001, South Africa
11:25	11:40	0:15	NA	4270;Free vibration studies of magneto-electro-elastic structures using EAS and ANS solid-shell finite elements;Yan Feng, Shijie Zheng, Ye Huang;Aeronautical Science Key Lab of Smart Materials & Structures,Nanjing University of Aeronautics & Astronautics, Nanjing, China	MPF 4402, Oral, Synthesis and evaluation of hardness and sliding wear resistance of pulse current electrodeposited nanocrystalline Ni–W films Dianlong Liu;Zhigang Yang; Zhenqiang Wang; Chi Zhang Department of Material Science and Engineering, Tsinghua University; China	OPF 4704, Oral, Efficiency Improvement of Pentacene/Fullerene Heterostructural Solar Cells by Inserting Periodic Multi-Layers Hung Kuang-Teng;Huang Kuan-Ta; Hsiao Chu-Yun; Shih Chuan-Feng Department of Electrical Engineering, National Cheng Kung University; Taiwan	OFN4438 ORAL Synthsis of titania nanowire from a gas mixture of N2,CH4,O2,and H2O W. L. Liu, W. J. Chen, S. H. Hsieh (Deapratment of Materials science and engineering , National Formosa University, Taiwan)	4158;Assembly of nanoparticles at air/liquid interface by langmuir monolayer of surfactant molecules;Qin Zhao, Pu Qun Wang, Chee Cheong Wong;Nanyang Technological University, School of Materials Science & Engineering, Singapore	(4787)TiO2 nanopartilces prepared by hydrothermal process for use in dye sensitized solar cells, Wan-Yu WU, Tzu-Wen SHIH, Jyh-Ming TING, Department of Materials Science and Engineering, National Cheng Kung University, Taiwan
11:40	11:55	0:15	NA	4284;A comparative Experimental Study of Relationship between Rheological and Mechanical Properties of Extrudate Two-layer Polymer Melts;Mohammad Ranjbaran;Mechanical Engineering, Shahid Rajaee University, Iran	MPF 4424, Oral, Microstructure and Thermal Properties of Gd2O3-Yb2O3 Doped YSZ for Thermal Barrier Coating Application Guo Lei;Guo Hongbo; Gong Shengkai School of Materials Science and Engieering, Beihang University; China	OPF 4707, Oral, Breakdown Characteristics of Inorganic Nanohybrid Polyimide Films Under DC Field Yin Jinghua;Liu Xiaoxu; Pu Wenbin; Lin Jiaqi; Lei Qingquan Harbin University of Science and Technology; China	OFN5003 ORAL Synthesis of silicon dioxide nanowires by rapid thermal annealing Fengji Li, Sam Zhang, Junhua Kong, Yujuan Zhang, Wali Zhang (School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore)	4537;New approaches for the fabrication of 2D and 3D photonic crystals of colloidal silica and polystyrene microspheres;Yanbo Ding, Jiupeng Zhao, Wuhong Xin, Xin Zhang, Xuemei Hou;School of Chemical Engineering and Technology, Harbin Institute of Technology, Harbin, 150001, China	(4327)Surface morphology and electrical properties of Al doped ZnO thin films deposited on different substrates by RF magnetron sputtering method, Yanyan YANG, Xiangbin ZENG, Xiaojin WANG, Xiao ZHANG, Qing LI, Department of Electronic Science and Technology, Huazhong University of Science and Technology,Wuhan, Hubei,P.R.China,430074., China
11:55	12:10	0:15	NA	4287;Prediction of Critical Center Load for Bi-stable Laminates;Fuhong Dai;Center for Composite Materials and Structures, Harbin Institute of Technology,, China	MPF 4540, Oral, Ion-plated NiCrAlY /Al2O3 double-coating on orthorhombic-Ti2AlNb alloy to improve oxidation resistance at 900 oC LI Haiqing;WANG Qimin; GONG Jun; SUN Chao State Key Laboratory for Corrosion Protection, Institute of Metal Research, Chinese Academy of Sciences; China	OPF 4960, Oral, Conductive Poly(3-methylthiophene) Thin Films Fabricated by Microwave Plasma Polymerization Paosawatyanyong Boonchoat1;Luyaphand Pornchai2; Bhanthumnavin Worawan3 1Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok; Thailand 2Center for Petroleum, Petrochemicals, and Advanced Materials, Chulalongkorn University, Bangkok;Thailand 3Department of Chemistry, Faculty of Science,	OFN4557 ORAL Seed layer induced titania nanorod growth on Si substrate by hydrothermal route Dan Tang, Kui Cheng, Wenjian Weng, Chenlu Song, Piyi Du, Ge Shen, Gaorong Han (Department of Material Science and Engineering, Zhejiang University, China)	4489;Self-assembly of colloidal crystals using UV/ozone surface-modified polystyrene nanospheres;Dengteng Ge, Yao Li, Lili Yang, Chang Liu, Xin Zhang;Center for Composite Materials, Harbin institute of technology, China	(4311)Formation of CuInSe2 thin film with (220/204)preferred orientation by selenization of Cu/In films on AZO substrate, Jia-Feng Fang, Dung-Ching Perng, Jhin-Wei Chen, Institute of Microelectronics, EE dept., National Cheng Kung University, Taiwan

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Start	End	Duration								
12:10	12:25	0:15	NA	4298;Finite Element Analysis of near Fatigue Crack Tip Parameters in the CFRP and Aluminum Alloy Laminate;Jia-Zhen Zhang, Shi-Gang Bai, Yu Sha;Composite Research Centre, Harbin Institute of Technology, China	MPF 4590, Oral, Finite element analysis of thermal shock resistance behavior of 8YSZ/NiCoCrAlY and La2Zr2O7/8YSZ/NiCoCrAlY thermal barrier coatings fabricated by atmospheric plasma spray You Wang1;Liang Wang2; Ye Zhou3; Peilian Wu4 1Department of Materials Science, Harbin Institute of Technology; China 2Department of Materials Science, Harbin Institute of Technology;China 3Department of Materials Science, Harbin Institute of Technology;China 4Department of Materials Science, Harbin Institute	OPF 4974, Oral, A novel method fabricated Polyaniline-CNT coatings modified glassy carbon electrodes for heavy metal tracing Wang Zhaomeng;Liu Erjia; Gu Donghao School of Mechanical and Aerospace Engineering, Nanyang Techanical University; Singapore	OFN4782 ORAL VLS Growth of SnO2 Nanowires by Vapor Phase Disporportionation of a Sn(II) Precursor Ralf Müller, Hao Shen, Sanjay Mathur (Institute of Inorganic Chemistry, University of Cologne, Germany)	4539;Ordered ring structures of CdSe nanoparticles by water droplet self assembly;Anantha P, chen xu, cc wong;School of Materials Science and Engineering, Nanyang Technological University, Singapore	(4224)Nanostructured TiO2 as blocking layer for Dye-sensitized solar cells, Xiu Wang, Chan-Hoe Yip, C.C. Wong,School of Materials Science and Engineering, Nanyang Technological University, Singapore
12:25	12:40	0:15	NA	4300;Effect of Thermal Conduction on Tribological Properties of Polytetrafluoroethylene Based Composites;Ting XIE, Gang CHEN, Yanguo YIN, Minghua JIAO, Jianwei YU, Zhaoming YAN, Zhenxing XU;Institute of Tribology, Hefei University of Technology, Hefei 230009, China	MPF 4609, Oral, Thermal Cyclic Oxidation Behavior of Plasma Sprayed Thermal Barrier Coatings with Aluminized, Pt-aluminized High Velocity Oxygen Fuel Sprayed Bond Coatings Tsai Pi-Chuen1;Lee Jyh-Wei3; Kuo lang-Chuen12; Chou Yia-Ling1 1Department of Materials Science and Engineering, National Formosa University; Taiwan 3Department of Materials Science and Engineering, Ming Chi University of Technology;Taiwan	OPF 5039, Oral, Analysis of Interfacial Properties in the Supported Polymer Thin Films Yang Jintao;Wang Weixiong; Shen Jiong; Yang Yong; Lee James L Department of Chemical and Biomolecular Engineering,The Ohio State University; USA	OFN4761 ORAL Fabrication and Device Applications of CdS(Te)@SnO2 Nanowire Heterostructures Jiangtian Li, Jun Pan, Hao Shen, Sanjay Mathur (Institute of Inorganic Chemistry,University of Cologne, Germany)	4044;High-throughput Surface Nanopatterning of Organosilane-based self-assembled Monolayers: A Particle Lithography Approach;Jing-jiang Yu, Jie-Ren Li, Jayne C. Garno;Nanotechnology Measurement Division, Agilent Technologies, Inc., Chandler, AZ 85226, USA	(4151)Electrolyte-less Dye-Sensitized Solar Cells,Duen Yang Ong, Chan Hoe Yip, Chee Mang Ng, Chee Cheong Wong, School of Materials Science and Engineering, Nanyang Technological University, Singapore
session oral				8	8	8	8	8	8	8
total orals so far				61	61	61	61	61	61	61
12:40	13:40	1:00	NA	lunch	lunch	lunch	lunch	lunch	lunch	lunch
			NA	COMPO12, session chair, Prof. Sergey REZNIK,Bauman Moscow State Technical University, Russian Federation	MPF6 session chair: WANG Fuhui, Institute of Metal Research, China	OPF2 Organic Thin Film Devices, session chiar Professor Garno Jayne, Chemistry Department, Louisiana State University; USA	OFN8 Chair: Prof. He Junhui (Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China)	SMF1,Session Chair, Prof. Qing Ping Sun, Hongkong University, China	CCE3, Session Chair, Prof. Jyh-Wei Lee, Professor, Department of Materials Engineering, Mingchi University of Technology, Taipei Taiwan
13:40	14:05	0:25	NA	COMPO4830 (invited);Off-Axis Ratcheting Behavior of a Unidirectional Carbon/Epoxy Laminate at High Temperature;Masamichi Kawai, Takashi Kigure, Takafumi Suzuki, Department of Engineering Mechanics and Energy, University of Tsukuba, Japan	MPF 4476, Oral, Is it correct to use nanoindentation method to evaluate toughness for films or coatings of tougher nature? Zhang Xiaomin;Tey Xiangwei; Zhang Sam; Li Fengji; Wang Yuxi	OPF 4422, Invited Lecture, Studies of the optoelectronic properties of dendrimer thin films and devices Li Jianchang;Han Na; Wang Shanshan; Ba Dechun Vacuum and fluid engineering research center,	OFN4615 ORAL The effects of coherency stress on interdiffusion across coherent multilayer interfaces Youxing CHEN, Yao SHEN, Haibo WAN (School of Material Science and Engineering, China)	TiNi-based shape memory alloy thin films for microactuators MIYAZAKI Shuichi;TOMOZAWA Masanari; KIM Hee Young Institute of Materials Science, University of Tsukuba; Japan	(invited-4777)Plasma assisted and manipulated deposition of thin film electrodes for micro batteries, K.-F. Chiu* and C.-L. Chen, Department of Materials Science and Engineering, Feng Chia University, 100 Weh Hua Rd. Taichung, Taiwan
14:05	14:20	0:15	NA	4045;Machining Behaviour of Poly Crystalline Diamond Insert on turning GFRP Composites;Akshay Setlur, Govind Mohan, Kaushik Nagasubramanian;Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Anna University, India	MPF 4332, Oral, Development of the interface bonding between thermally sprayed thin lamellae Li Chang-Jiu;Yang Guan-Jun School of Materials Science and Engineering, Xi'an Jiaotong University; China	OPF 4058, Oral, A sol-gel organic thin film transistor-based non-volatile memory with zinc oxide nanoparticles Lee Wai1;Aw Kean2; Wong Hin1; Chan Kah1; Leung Michael2; Tjitra Salim Noviana2 1Multimedia University, Faculty of Engineering; Malaysia 2Mechatronics Engineering, Department of Mechnical Engineering, The University of	OFN4221 ORAL Iron-Doped Titania Thin Films Prepared by Spin Coating Auppatham Nakaruk, Christine Yi-Wen Lin, Charles C. Sorrell (School of Materials Science and Engineering, University of New South Wales, Australia)	SMF 4125, Invited Lecture, Nanoscale wrinkling in shape memory polymers Huang WM1;Fu YQ2 1School of Mechanical and Aerospace Engineering, Nanyang Technological University; Singapore 2Department of Mechanical Engineering, School of Engineering and Physical Sciences, Heriot Watt University;United Kingdom	(4854)The Charge-Discharge Characteristics of Hydrothermally-Synthesized Li3AlF6/LiMn2O4 Powder as a Cathode Material for Lithium-Ion Batteries, Chih-Hsien Wang, Chung-Wei Yang, Truan-Sheng Lui, Li-Hui Chen, Department of Materials Science and Engineering, National Cheng Kung University, Taiwan
14:20	14:35	0:15	NA	4064;Electroactivate Shape Memory Polymer Composite Blended with Multi-walled Carbon Nanotube Paper;Jinying YIN, Jihua GOU, Haibao LU;Center for Composite Materials and Structures, Harbin Institute of Technology, China	MPF 4749, Oral, Microstructure and Mechanical Properties of Boron Phosphide Films Deposited by Magnetron Reactive Sputtering JIA Zechun;ZHU Jiaqi Center for Composite Materials,Harbin Institute of Technology; China	OPF 4226, Oral, Synthesis and Characterization of Novel Dithienothiophene- and 2,7-Carbazole-Based Conjugated Polymers with Surface-Modified ZnO Nanoparticles for Organic Photovoltaic Cell Applications FANG HSIAO-PING1;LIN JIA-WEI1; CHIANG I-HUNG1; CHU CHIH-WEI23; LIN HONG-CHEU1 1Department of Materials Sci. and Eng., National	OFN4534 ORAL Fabrication of three-dimensional ordered macroporous Ta2O5 thin films Wuhong Xin, Jiupeng Zhao, Xin Liu, Yanbo Ding, Yao Li (Center for Composite Materials, Harbin Institute of Technology, China)	SMF 4870, Oral, Instrumented indentation approach for elastic-plastic characterization of NiTi thin films NOHAVA Jiri1;HUANG Xu2; RAMIREZ Ainissa2; ZHANG Bin1 1CSM Instruments SA; Switzerland 2Departement of Mechanical Engineering, Yale University;USA	(5001)Tetraphenanthroporphyrin Derivatives with Excellent Optical Properties as Potential Dye for DSSC, Chommapat Mettaprasert, Worawan Bhanthumnavin, Organic Synthesis Research Unit, Department of Chemistry, Faculty of Science, Chulalongkorn University, Thailand
14:35	14:50	0:15	NA	4073;Advanced polymer matrix composites research progress;zhang wen yu, hou shi zhong;Luoyang Ship Material Research Institute, China	MPF 4901, Oral, The higher order stress fields for a crack arbitrarily oriented to the physical weak-discontinuous line DAI Yao;LI Shi-min The department of mechanical engineering, the academy of armored force engineering; China	OPF 4417, Oral, Photovoltaic Performance of Organic Solar Cells Based on Thin Film DH6T/PCBM Active Layer Muhammad Fahmi Fariq;Sulaiman Khaulah Department of Physics, University of Malaya; Malaysia	OFN4511 ORAL A Novel Preparation of Sn,Sb-O2-x Coatings by Pulsed Fiber Laser Annealing Chun-Min Wang, Chun-Chieh Huang, H. T. Lin, Jow-Lay Huang (Department of Materials Science and Engineering, National Cheng Kung University, Taiwan)	SMF 4849, Oral, NiTi SMA thin film micro-cantilevers array CHUNG C.Y.;CHAN P.M. Physics and Materials Science Dept., City University of Hong Kong; Hong Kong	(4928)Formation of Nickel-Silicide selective emitter by Laser-annealing process for solar cell application, Je Wei Lin, Terry Wang, Su Lin Yang, Tien Sheng Chao, Department of Electrophysics, National Chiao Tung University, Taiwan
14:50	15:05	0:15	NA	4103;Thermal performance improvement of GFRP with epoxy-organoclay nanocomposite matrix;Honggang ZHU, Christopher K.Y. LEUNG, Jang-Kyo KIM;Civil and Environmental Engineering Dept., Hong Kong University of Science and Technology, Hong Kong	MPF 5005, Oral, Numerical Simulation of Mechanics and Dynamics of Ultr-Thin Film Lubrication at Head/Disk Interface of Hard Disk Drives Ao Hongrui;Jiang Hongyuan; Wei Haodong School of Mechatronics Engineering, Harbin Institute of Technology; China	OPF 4866, Oral, Performance improvement of blue phosphorescent organic light-emitting diodes by using hole-buffer structure Liao Teh-Chao1;Wang Shun-Hsi2; Juang Fuh-Shyang2; Tsai Yu-Sheng2; Huang Jian-Ji3; Jheng Cheng-Yin2; Hsieh Bo-Syen2 1Department of Electro-Optics Engineering, National Formosa University; Taiwan 2Institute of Electro-Optical and Materials Science,	OFN4775 ORAL Preparation of Uniform MgNiO Sosoloid and Properties of Solar-blind Ultraviolet Detecting Zhiguo Yang, Liping Zhu, Yanmin Guo, Zhizhen Ye, Binghui Zhao (State Key Laboratory of Silicon Materials,Department of Material Science & Engineering,Zhejiang University, China)	SMF 4611, Oral, Cavitation Erosion Resistance of NiTi Thin Films Produced by the Filtered Arc Deposition System (FADS) at Different Substrate Bias Voltages Yang Li Mei;Tieu A Keit; Dunne Druce Patrick; Li Hui Jun School of Mechanical, Materials and Mechatronic Engineering, University of Wollongong; Australia	(4875)TiO2 Nanostructures for Dye Sensitized Solar Cells, Ming WANG, Lidong SUN, Sam ZHANG, Dongliang ZHAO, Department of Functional Material Research, Central Iron and Steel Research Institute, China
15:05	15:20	0:15	NA	4338;Experimental research on the asphalt concrete wearing layer modified by epoxy resin;yong chun cheng, hui li ma, chun xu;College of transportation, Jilin University, China	MPF 5028, Oral, Integrated atomics simulation of indentation and tension process of double crystal nano-thin film Chen Jiaxuan; Harbin University of Technology; China	OPF 4890, Oral, Efficiency Improvement of Pentacene/Fullerene Heterostructural Solar Cells by Inserting Periodic Multi-Layers Hung Kuang-Teng;Huang Kuan-Ta; Hsiao Chu-Yun; Shih Chuan-Feng Department of Electrical Engineering, National Cheng Kung University; Taiwan	OFN4148 ORAL Enhanced visible-light absorption from Ag2O nanoparticles in nitrogen-doped titanium oxide thin films Feng Fang, Qi Li, Jianku Shang (Jiangsu Key Lab for Advanced Metallic Materials, Southeast University, China)	SMF 4509, Oral, Preparation and Microstructure of Ti-Ni-Hf-Cu Quaternary Shape Memory Alloy Thin Films X.L. Meng;Y.D. Fu; W. Cai; L.C. Zhao School of Materials Science and Engineering, Harbin Institute of Technology; China	(4568)Synthesis and Characterization of CuO/ZnO-Al2O3 Washcoat Thin Film with ZrO2 Sol for Catalytic Steam Reforming of Methanol in a Microreactor, Kuen-Song Lin, Mu-Ting Tu, Wan-Ting Hong, Cheng-Yu Pan, Chuin-Tih Yeh, Department of Chemical Engineering & Materials Science/Fuel Cell Center, Yuan Ze University, Taiwan
15:20	15:35	0:15	NA	4343;Prediction on the mechanical property of injection molded cellulose/glass hybrid composites;Tomoko OTA, Ying YU, Yuqiu YANG, Hiroyuki HAMADA;Kyoto Institute of Technology, Japan	MPF 4147, Oral, Plasma thin film deposition using a low-temperature cascade arc torch (LTCAT) Ritts Andrew1;Liu Chi-Hung2; Yu Qingsong1 1Department of Mechanical and Aerospace Engineering, University of Missouri; USA 2Plasma Science and Application Department, Industrial Technology Research Institute;Taiwan	OPF 4966, Oral, Fabrication of optical filters based on polymer asymmetric Bragg couplers Kun-Yi Lee1;Wei-Ching Chuang2; Yen-Juei Lin1; Wei-Yu Lee1 1Electrical Engineering Dept., China University of Science and Technology; Taiwan 2Electro-Optics Engineering Dept., National Formosa	OFN4688 ORAL Thermal conductivity research on asphalt filled with CdMoO4 hollow nano-spheres Ning Xie (Harbin Institute of Technology, School of Transportation Science and Engineering, China)	SMF 4589, Oral, Insitu fabrication of NiTi/PZT/TiO2/PZT heterostructures on Pt/TiOx/Si substrates using dc magnetron sputtering technique Kumar Ashvani;Kaur Davinder Department of Physics and Center of Nanotechnology, Indian Institute of Technology Roorkee; India	(4136)Alternating Anodizing voltages for TiO2 Nanotube Arrays of Alternating Diameters, Xiaoyan Wang, Sam Zhang, Lidong Sun, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore
15:35	15:50	0:15	NA	4348;Physical-mechanical and morphological properties of cellulose reinforced composites from recycled jute woven cloth;Yuqiu YANG, Ying YU, Tomoko OTA, Yutaka TANAKA, Ryuiti NISHIDA, Shinichiro KAWABATA, Hiroyuki HAMADA;Kyoto Institute of Technology, Japan	MPF 4282, Oral, Parametric study of ceramics Coatings Deposited by air plasma spray onto polymer substrate Sun Guanhong;He Xiaodong; Jiang Jiuxing; Li Yibin; Sun Yue Center for Composite Materials and Structures,	oral	OFN4345 ORAL The oxidation behavior of NiCrAlY coatings prepared by hybrid slurry/pack cementation processes Lu Jintao, Zhu Shenglong, Wang Fuhui (State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Science, China)	SMF 4874, Oral, Opto-thermo actuation of multilayered liquid crystal polymer films Wang Binglian;You Yue; Huo Yongzhong Department of Mechanics and Engineering Science, Fudan University; China	(4091)Fabrication of N-doped TiO2 nanotubes on titanium substrate by anodic oxidation and implantation, Jinlong Li, Zhenlun Song,Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, China
session oral				8	8	8	8	8	8	8
total orals so far				69	69	69	69	69	69	69
15:50	16:10	0:20	NA	Teabreak, poster	Teabreak, poster	Teabreak, poster	Teabreak, poster	tea break	teak break
			NA	COMPO13, session chair, Masamichi Kawai,Department of Engineering Mechanics and Energy, University of Tsukuba, Japan	MPF7 session chair: DUH Jeng-Gong National Tsing-Hua University, Taiwan	ONF1	ETF2	SMF2, session chair, Prof. S Miyazaki, Tsukuba University, Japan; Prof. Greg Carman; UCLA, USA.	CCE4,Session Chair,PETER HING, Physics Department, Faculty of Science, Brunei Darussalam
16:10	16:35	0:25	NA	COMPO4192 (invited);Morphology and properties of high performance carboxylated MWNT/polyimide nanocomposite;Yao Li, BaoDe Zhang, Chunhai Chen, XiangLi Meng;Center for composite materials,Harbin Institute of Technology, China	MPF 4893, Oral, Determination of the residual stress of thin film at sputtering process by X-ray diffraction and finite element method Chen Feng-Yuan1;Chang Rwei-Chong2 1. Department of Mechanical Engineering, Lee-Ming Institute of Technology; Taiwan 2. Department of Mechanical and Computer-Aided	4180 (invited);Self-Formation of Single-Crystal Metal Particles Driven by Inhomogeneous Stress in Thin Films;Kewei Xu, Fei Ma, Haoliang Sun;Xi'an Jiaotong University, China	(invited) (invited) 5034 Electrochemical corrosion behavior of nanocrystalline thin film, Liu Li, Li Ying, Wang Fuhui, State Key Laboratory for Corrosion and Protection, Institute of Metal Research, Chinese Academy of Sciences, China	SMF 4995, Invited Lecture, Role of time and length scales in deformation patterns of SMA ------ bulk versus thin film specimens Sun Qingping; Hong Kong University of Science and Technology; China	(invited-5027))Development of Sintered Translucent Alumina Arc tube with Nanometer Surface Finish and Dramatic Improvement in Lamp Efficacy,PETER HING, Physics Department, Faculty of Science, Brunei Darussalam, Brunei Darussalam

16:35	16:50	0:15	NA	4194;PERFORMANCE EVALUATION OF MANGANESE PHOSPHATE COATED HSS ON TURNING M1A MAGNESIUM ALLOY;Nelson Nishanth, Karthik Narasimhan, Adhithya Sethupathy;Mechanical Dept;Sri venkateswara college of Engineering,Anna University;Chennai, India	MPF 4802, Oral, Rotational fretting wear behavior of bonded MoS2 solid lubricant coating under various relative humidity environments Jun Luo;Minhao Zhu; Yundong Wang; Xiuzhou Lin; Jiliang Mo Tribology Research Institute, Traction Power State Key Laboratory, Southwest Jiaotong University, Chengdu 610031, China	4347;Kinetic Study on Self-Assembly of Block Copolymer Thin Films;Jie Yu, Qingfeng Yan, Dezhong Shen;Department of Chemistry, State Key Laboratory of New Ceramics and Fine Processing, Tsinghua University, China	4289 Preparation of a BPO-evocated, SiO2-based organic-inorganic composite anti-corrosion coating, Xingeng Ding, Jianxiang Liu, Yuan Chen, Hui Yang, Department of Materials Science and Engineering, Zhejiang University, China	SMF 4465, Oral, Functional materials with Shape Memory Effect at Nanoscale of Dimensions Lega Petr1;Koledov Victor1; Shavrov Vladimir1; Irzhak Artem2; Zakharov Dmitry2 1Physics of Magnetic Phenomena, Institute of Radio-engineering and Electronics of Russian Academy of Sciences; Russian Federation 2National University of Science and Technology "MISiS";Russian Federation	(4340)Deposition of hydrothermally synthesized Pt on carbon nanofibers using hydrothermal deposition for use as direct methanol fual cell electrodes, Chieh-Yun Huang, Jyh-Ming Ting, Department of Materials Science and Engineering, National Cheng Kung University, Taiwan
16:50	17:05	0:15	NA	4174;Study on interface behavior of MWNT reinforced resin matrix composite fracture toughness behavior using molecular dynamics;Yang Lin, Tong Liyong, He Xiaodong;Centre for Composite Materials and Structures, Harbin Institute of Technology, China	MPF 4883, Oral, Thermal annealing effect on the mechanical properties of atomic layer deposited Al2O3 thin film Sheng Yangping;Yuan Chris Mechanical Engineering Department, University of Wisconsin; USA	4199;Nanostructured Thin Films for Anti-reflection Applications;Kien Wen Sun;Department of Applied Chemistry, National Chiao Tung University, Taiwan	4937 EFFECT OF ANODIZATION AND ALUMINUM-BASED COATING DEPOSITION FOR CORROSION AND WEAR RESISTANCE OF Mg AZ31, I. Zukerman, E. Amzaleg, M. Wiess, R. Starostin, S. Tamir, A. Raveh, Division of Chemistry, NRC-Negev, Beer Sheva, Israel	NiTi shape memory alloys modified by passivation and oxygen ion implantation double surface treatment Yuan Bin1;Lai Ming1; Gao Yan1; Chung C. Y.2; Zhu Min1 1School of Materials Science and Engineering, South China University of Technology; China 2Department of Physics & Materials Science, City University of Hong Kong;Hong Kong	(4507)Structures and photocatalytic behavior of tantalum-oxynitride thin films, Chuan Li, J. H. Hsieh, National Central University, Taiwan
17:05	17:20	0:15	NA	4176;Constitutive behaviors of thermo-responsive shape memory polymer;Bo ZHOU, Yanju LIU, Jinsong LENG;College of Aerospace and Civil Engineering, Harbin Engineering University, China	MPF 4970, Oral, Tribological Performance of Platinumruthenium-doped Diamond-like Carbon Thin Films Khun Nay Win;Liu Erjia School of Mechanical and Aerospace Engineering, Nanyang Technological University; Singapore	4126;Low Power Laser Directed Deposition of Silver Thin Films;Ran Deng, Jia Li, Husen Kartasasmita Kang, Huijuan Zhang, Chee Cheong Wong;School of Materials Science and Engineering, Nanyang Technological University, Singapore	4755 Corrosion resistance evaluations of pulsed DC reactive magnetron sputtered nanocomposite Cr-Zr-Si-N thin films, Chang Shih-Tien, Lee Jyh-Wei, Chien Chi-Hong, Chang Li-Chun, Wang Chaur-Jeng, Department of Materials Engineering, Mingchi University of Technology, Taiwan	SMF 5024, Oral, Mechanical properties, corrosion behavior of the NiTi alloy implanted with niobium Zhao Tingting1;Li Yan1; Liu Xiaochuan1; Xiang Yan2; Zhao Xinging1 1School of Material Science and Engineering, Beihang University; China 2School of Chemistry and Environment, Beihang University;China	(4848)Preparation and characterization of thin films for neutron spectroscopy and neutron cross section measurements, Danislav Sapundjiev, Andr?Moens, Goedele Sibbens, Yetunde Aregbe, Institute for Reference Materials and Measurements (IRMM), European Commission, Joint Research Center, Retieseweg, B-2440 Geel, Belgium
17:20	17:35	0:15	NA	4305;Theoretical and experimental investigation on Helium leakage characterization of flexible film-fabric laminated composites;Xue Feng Yao, Qing Wu, Chao Xiong, Hui Feng Tan;Tsinghua University, China	MPF 5000, Oral, Raman spectroscopy and nanomechanical properties of multilayer tetrahedral amorphous carbon films Wang Sai;Zhu Jiaqi; Han Xiao Center for Composite Materials, Harbin Institute of Technology, China	4127;Photoreduced Silver Gratings by Optical Interference;Jia Li, Wenbo Zhao, Husen Kartasasmita Kang, Chee Cheong Wong;School of Materials Science and Engineering, Nanyang Technological University, Singapore	4661 Performance Research on Nano Mechanics of Electro-Thermal Explosion Spraying Nanostructural Coating, Shicheng Wei, National Key Lab for Remanufacturing, Academy of Armored Force Engineering, China	SMF 5025, Oral, Heavy-ion-irradiation-induced amorphization in a TiNiCu shape memory Alloy Zu XT; University of Electronic Science and Technology of China; China	(4821)Influence of gas flow during vacuum cold spraying of nanoporous TiO2 film by using nano-sized powder on the performance of dye-sensitized solar cell, Guan-Jun Yang, Chang-Jiu Li, Kai-Xing Liao, Xue-Long He, Shan Li, Sheng-Qiang Fan, State Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong
17:35	17:50	0:15	NA	4325;Design and preparation of polystyrene-polyisoprene core-shell nanoparticles for elastomer reinforcement;Lu Ming, Lu Qiuyu, He Bo, Wang Liansheng, Zhou Jianjun, Zhao Wei, Zhang Liqun, Liu Yakang;Key Laboratory for Nanomaterials of Ministry of Education, Beijing University of Chemical Technology, China	MPF 5010, Oral, Antiscratch and anticorrosion hybrid coating on polycarbonate substrate Mei Ge;Long Yi Nanyang technological university; Singapore	4186;Negative Index Metamaterials Based On Ordered Metal-Dielectric Nanocomposites;Kwang Hong Lee, Chee Cheong Wong;School of Materials Science and Engineering, Nanyang Technological University, Singapore	4936 The corrosion and wear resistances of magnesium alloy (LZ91) electroplated with copper and followed by tum-thick chromium deposits, Ching An Huang, Che Kuan Lin, Yu Hu Yeh, Chang Gung University, Taiwan	SMF 4016, Oral, MICRO STRUCTURE AND THERMAL-MECHANICAL STUDY ON POLYURETHANE-CLAY SHAPE MEMORY NANOCOMPOSITES XU BIN;FU YONGQING Mechanical Dept., Heriot Watt University; United Kingdom	(4334)Synthesis of graphene oxide (GO): effects of processing steps and parameters on the resulting GO thin film, Tien-Tsai Wu, Jyh-Ming Ting, Department materials science and engineering National Cheng Kung University, Taiwan
17:50	18:05	0:15	NA	4335;Taguchi method for process improvement in solar selective coating;Chao-Yang Huang, Shu-Feng Lee, Chang -Pin Chou, Chiu-Feng Lin, Ching-Tang Lai;Department of Mechanical Engineering, National Chiao Tung University,EERL, Industrial Technology Research Institute, Taiwan	MPF 5036, Oral, Corrosion and tribological properties of ultra-thin ta-C:N film for recording slider protection in high-density magnetic storage application Wang Gui-Gen1;Zhang Hua-Yu1; Zhou Hong-Fei1; Zuo Hongbo2; Han Jiecai2 1Shenzhen Graduate School, Harbin Institute of Technology, Shenzhen 518055; China 2Center for Composite Materials, Harbin Institute of	4167;Dynamic Ordering of Attractive Colloidal Nanostructures;Kwan Wee Tan, C. C. Wong;Department of Materials Science and Engineering, Cornell University, USA	4170 Electrodeposition of Quaternary Alloys with High Saturation Magnetic Flux Density, Mehdi Ebadi, Department of Chemistry, Malaya University, Malaysia	SMF 4394, Oral, Magnetic Nanoparticles in Smart Multifunctional Thin-films Srivastava Saurabh1;Srivastava Vijay2; Chatterjee Ratnamala1 1Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016; India 2Department of Aerospace Engineering and Mechanics, University of Minnesota, Minnesota 55455;USA	(4299)Nickel electroplating of high temperature stainless steel interconnect,Shujiang Geng, Fuhui Wang, School of Materials and Metallurgy, Box 119, Northeastern University, 3-11 Wenhua Road, Shenyang, 110819 China, China
18:05	18:20	0:15	NA	4336;Reliability Research on Interfacial Bond Performance between CFRP and Concrete;Yong-chun Cheng, Ping Jiang, Chun-liang Li;School of Communication Science & Engineering, Jilin Architecture and Civil Engineering Institute, China	MPF 4955, Oral, Characterization of MW-PECVD DLC thin film coated alumina Rattanasatien Chotiwan1;Tonanon Nattaporn1; Paosawatyanyong Boonchoat2 1Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok; Thailand 2Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok;Thailand		4694 Preparation of the Electrochemical Functional NiFe2O4 Film by EB-PVD, Qiao Guofu, Song Guangping, Chen Song, Hong Yi, Ou Jinping, School of Hydraulic and Civil Engineering, DaLian University of Technology, China	SMF 4524, Oral, Studies of structural, magnetic, mechanical and transport properties of NiMnSb ferromagnetic shape memory alloy thin films Dwivedi Neeraj1;Kumar Sushil2; Kaur Davinder1 1Department of Physics and Centre of Nanotechnology, Indian Institute of Technology Roorkee; India 2Plasma Processed Materials Group, National Physical Laboratory (CSIR);India	oral
18:20	18:35	0:15	NA	4371;Simulation Study of Fracture Behavior in a FMLs Specimen by 3D Elastic-Plastic Finite Element Model;xin song, zheng liu, jiazhen zhang;Mechanical and Power Engineering College, Harbin Univ. Sci. Tech., China			4871 Corrosion Protection and Formation Mechanism of Anodic Coating on SiCp/Al Metal Matrix Composite, Chunlin HE, Jianming WANG, Qingkui CAI, Institute of Surface Engineering, Shenyang University, Shenyang	SMF 4082, Oral, Stress induced texture and trench evolution in shape memory TiNiCu films Fu YQ; Department of Mehcanical Engineering, Heriot-Watt Univeristy; United Kingdom	oral
18:35	18:50	0:15		4020;Development of Al (Art.880) particulate inserted eglass epoxy composite material and study of their Physico-Mechanical properties;Basava T, Harirao A N;SJMIT, Mechanical Engg Dept, Visvesvaraya Technological University., India				SMF 4271, Oral, Synthesis and characterization of temperature-actuated thin film polyurethane-based shape memory polymers Ahmad Manzoor1;Luo Jack1; Bin Xu2; Yongqing Fu Richard2; Huang Weimin3; Yong Zhao3 1Inst. of Materials Research & Innovation, University of Bolton, Bolton , BL3 5AB.; United Kingdom 2Dept. of Mechanical Eng., School of Eng. and Phys Sciences. Heriot-Watt University, Edinburgh EH14 4AS;United Kingdom 3School of Mechanical and Aerospace Eng., Nanyang Technological University, 50 Nanyang Avenue, Singapore, 639798;Singapore	
session oral				10	10	10	10	10	10
total orals so far				0	79	79	79	79	79
		standby		4155;Experimental and simulating study of interfacial enhancement of multi-scale carbon fiber reinforced epoxy matrix composites;zhao Wang, xiaodong He, yibin Li, rongguo Wang, lei Mei, liyong Tong;the center for composites materials, Harbin Institute of Technology, Harbin, China, China					
room ac total									