

duration	conference hall	Room: 2E-1	Room: 2E-2	Room: 3E-1	Room: 3E-2	Room: 6F-1	Room: 6F-2	
14:00 - 20:00 16:00 - 20:00	6:00 2:00							
registration:1th floor foyer reception:2th floor foyer								
Plenary:conference hall								
8:30 - 8:45 8:45 - 8:55	0:15 0:15	<p>opening speech by Professor Sam Zhang & Prof Xiaodong He, Chair and Local Chair of Thin Films 2010 and COMPO2010</p> <p>speech by Prof Du Shanyu, Academician, Honary Director of CCMS and Prof Yi Xiaosu, member of executive committee of ICCM</p>						
8:55 - 9:35	0:40	<p>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</p> <p>Greene Joe: Departments of Materials Science, Physics, and the Materials Research Laboratory, University of Illinois, Urbana, Illinois, 61801, USA</p>						
9:35 - 10:15	0:40	<p>Keynote2, Prof. Dr. h.c. Stan Veprek, Department of Chemistry, Technical University Munich, Germany NNF 5033, Plenary Keynote Lecture, Search for New Ultrathin Materials: Go Nano! Veprek Stan; Zhang R.F. 1; Veprek-Hejman M.G.J. 1; Shang S.H. 2; Argon A.I. 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</p>						
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
			COMPO2 Session Chair, Prof. Jun Liang, Harbin Institute of Technology	COMPO2 Session Chair, Prof. Wolfgang Bauhofer, Institut für Optische und Elektronische Materialien Eilendorfer 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 Ehrntraut (Tohoku University, Japan) and Dr. Gregory Goh (NRES, Singapore)	ODF1	ODF1 session chair: Professor Guenther Banstetter University of Applied Sciences Deggendorf, Germany
10:35 - 11:00	0:25	NA	COMPO2022(Invited), THE POTENTIAL FOR IMPROVED DURABILITY IN VACUUM INFUSED COMPOSITES BY THE USE OF INTER-LAYER VEILS; P Hogg, M Kuwata, P Jamsahid, A Hjadad, B. Tazari, Northwest Composites Centre, University of Manchester, United Kingdom	COMPO2041(Invited), Multi-Functional Smart Composites and Their Applications, Jingsong Leng, Yanju Liu, Shanyu 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	OFN1194 INVITED Solution synthesis of wide band gap materials like ZnO/AlN/TiO2 (WPL/AMR, Tohoku University, Sendai, Japan)	ODF4036, Invited Lecture, Electromechanical stability of semi-crystalline polymer Hu Xueqiang/Kong Xianghui Center for Composite Materials and Structures, Harbin Institute of Technology, China	ODF 4036, Invited Lecture, Electromechanical stability of semi-crystalline polymer Hu Xueqiang/Kong Xianghui 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, Xui Feng Yan;Harbin Institute of Technology, China	4600:Theoretical prediction of the stiffness and failure strength of stitched foam-core sandwich composites;Yuanchun Ma, Haitao Han, Xizhou Lu, Wenhai 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 Mohammad; Zhou F.Z.; Li K.Y.; Munro P.R.4; Xu Zonghan School of Engineering, Edith Cowan University, WA, Australia; Australia 2Department of Manufacturing Engineering and Engineering Management (MEM), City University of Hong Kong, Hong Kong; Hong Kong 3Department of Manufacturing Engineering and Engineering Management (MEM), City University of Hong Kong, Hong Kong; Hong Kong 4School of Materials Science and Engineering,	OFN4334 ORAL N type doping of epitaxial ZnO film grown in aqueous solution at 90°C Guang L.E. Xia Liang Gregory Goh, Soo Jin CHUA, Swee Kuan LIM (Materials Growth group, Institute of Materials Research and Engineering, Singapore)	ODF 4149, Oral, Surface Energy and Work of Adhesion of Titanium Oxide Films	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)	4588:Mechanical properties of integrally woven textile sandwich composites;Jingling Zhang, long Zhao, Fenglin Jin, Huilin Fan; State Key Laboratory of Explosion Science and Technology, Beijing Institute of Technology, Beijing 100081, China, China	NNF 4110, Oral, Comparative study of Ti-6Al-4V and W-Ni films deposited by dc magnetron sputtering JunFeng Yang,ZhiGang Yuan, XianPing Wang, QianFeng Fang Institute of Solid State Physics, Chinese Academy of Sciences	OFN4233 ORAL Properties of RF sputtered ZnO thin films under different oxygen flux Zhangsheng GUO (Shanghai Institute of Applied Mathematics and Mechanics, Shanghai University, China)	ODF 4140, Oral, Interfacial study of hydrogen-terminated functionalized carbon nanotubes Yuan-Chin Chen (National Tsing Hua Univ. Hsinchu, Taiwan)	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.
11:30 - 11:45	0:15	NA	4892:Dynamic response of Composite Marine Propeller; Xiaodong, Hong Yi, Wang Rongqiao, 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;Hongbin Liu, Min Li, Yizhou 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, Para 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)	ODF 4049, 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 fiber/PP woven knitted thermoplastic composites;Min SHEK, Wenling WANG, Guangwen MA, Hongxia Li; Department of Engineering Science, Tianjin University, China	4532:Effects of the thickness variation of each layer on the mechanical performances of ASA/PEEK;Shurong Ding, Yongzhong Huo; Department of Mechanics and Engineering Science, Fudan University, China	Goh Boon Tong; Muhammad Muhamad Rasat; Rahman Saadiah Abdul University of Malaya, Malaysia	ODF 4050, Oral, Preparation and characterization of flexible films consisting of layered TiO2 nanotubes Yu Qing, Xiaohu Liu, Pengwei Ma, Xuebin Sun, Weimin Wang, Qianqian Hong, Xu Dejun, Ping Shi, Baojun Sun, & Song Dejun, Shanghai University, China	ODF 4047, 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	
12:00 - 12:15	0:15	NA	4837:Microstructure simulation of untwisted filament bundle;Jinchao Li, Li Chen, Jingzhong Xing, Tianjin and Ministry 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 hydrothermal environment; Jin Ping; Harbin Institute of Technology At Weihai, China	NNF 4261, Oral, The Characteristics of Large Graphite Film Evolved from Molten Alloy Chang Kuen-Liang; Hsu Kai-Hung; Sung James C.2 National Taipei University of Technology; Taiwan 2KINIK Company; Taiwan	ODF 4051, Oral, Rapid Drafting of Thermally Stable Polymer and Polyimide/Polyimide Nanocomposites by Progressive Pressure Process and Yu-Chen Wu, Chao-Ming Wang K25 Center for Membrane Technology and Heat of Chemical Engineering, Chung Yuan Univ., Taiwan	ODF 4164, Oral, The Light Emission properties of ZnO:Sn Nanoparticles Ma Xinyi; School of Mathematics 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, Qihong Huang, Xiaodong He, 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-Feng 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 vapor deposition Khanh Non namah; Ritikos Richard; Othman Maitars; Rashid Nur Malsarah Abdul; Rahman Saadiah Abdul; Saad Bin Muzam Abd; Muhammad Muhammad Rasat University of Malaya, Malaysia	OFN4698 ORAL Optimal Structural Design for Zinc Oxide based Thin Film Transistor D.K. Lee, Y.J. Kim, J.I. Park, M.E. Lee, K.Y. Park Department of Mechanical Engineering, Yonsei University, Korea (south)	ODF 4281, Oral, Dielectric polymer matrix composite films of CNT coated with oxides TiO2 Kim Jim-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 plastic; Li, Wang Rongqiao, Liu Wentao; Center for Composite Materials and Structures, Harbin Institute of Technology, China	4405:Modeling delamination buckling and propagation in slender composite plates with single embedded delamination; Li, Zhang, Rongqiao Wang, Jianshuang Zhang, Wenbo Liu, Xiaodong He, Yibin Lu; 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-SiO2 thin films Huang Chian-Fa; Sun An-Cheng; Yuan Fu-Ta; Hsu Jen-Iwa3 Department of Chemical Engineering & Materials Science, Yuan Ze University, Chung-Li, 32003; Taiwan 2Institute of Physics, Academia Sinica, Nankang, Taipei, 116, Taiwan 3Institute of Applied Physics & Center for Nanostructure Research, National Taiwan University, Taipei, 106, Taiwan	OFN4544 ORAL Structural and optical properties of ZnO, TiO2, ZnO/TiO2 and TiO2/ZnO thin films prepared by pulsed laser deposition Praween K. Kaur (Department of Physics, Indian Institute of Technology Roorkee, India)	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 Chang-Hai; Guo Hua-Xin; Wang Yi Center for Composite Materials, Harbin Institute of Technology, China	
session oral total orals so far	8 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
			COMPO4 session chair, P Hogg, Northwest Composites Centre, University of Manchester, United Kingdom	COMPO4 session chair, Prof. Jingsong Leng, Harbin Institute of Technology	NNF2 session chair Professor Chen Tu Pei; School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore	OFN2 Chair: Prof. Geng Jun (NUS, Singapore) and Prof. Frederico Rossi (Univ. of Quebec, Canada)	ODF2	ODF2 session chair: Professor Dongping Liu Dalian Nationalities University, China

17.20	17.35	0:15	NA	4305:Theoretical and experimental investigation on Helium leakage characterization of flexible film-fabric laminated composites;Xue Feng Yan, Qing Wu, Chao Xiong, Hui Feng Tan;Tsinghua University, China	MPF 5060, Oral, Raman spectroscopy and nanomechanical properties of multilayer tetrahedral amorphous carbon films Wang Bai;Zhu Jiaqi; Han Xiao Center for Composite Materials, Harbin Institute of Technology, China	4127:Photoreduced Silver Gratings by Optical Interference;Jia LI, Wenbo Zhao, Hsuen Kartasamutit Kang, Chen Cheong Wang;School of Materials Science and Engineering, Nanyang Technological University, Singapore	4681 Performance Research on Nano Mechanics of Electro-Thermal Explosion Spraying Nanostructure Coating; Shicheng Wei, National Key Lab for Remanufacturing, Academy of Armored Force Engineering, China	SMF 5025, Oral, Heavy-ion irradiation-induced amorphization in a TiNiCo shape memory alloy; Zu XT, University of Electronic Science and Technology of China, China	4622 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-Gang Fan, State Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong University, China	
17.35	17.50	0:15	NA	4326:Design and preparation of polystyrene-polypropylene core-shell nanoparticles for elastomer reinforcement;Lu Ming, Lu Qiuyu, He Bo, Wang Liansheng, Zhou Jianjun, Zhao Wei, Zhang Liqun, Liu Yaolang;Key Laboratory for Nanomaterials of Ministry of Education, Beijing University of Chemical Technology, China	MPF 5010, Oral, Anticratch 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	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, Changfang CHEN, Department of Materials Science and Engineering, China University of Petroleum-Beijing, China	SMF 4016, Oral, MICRO STRUCTURE AND THERMAL-MECHANICAL STUDY ON POLYURETHANE-CLAY SHAPE MEMORY NANOCOMPOSITES XU BIN;FU YONGDING 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; Tian-Tai Wu, Jyh-Ming Ting, Department materials science and engineering National Cheng Kung University, Taiwan	
17.50	18.05	0:15	NA	4336:Taguchi method for process improvement in solar selective coating;Chao-Yang Huang, Shu-Feng Lee, Chang-Pin Chou, Chiu-Feng Lin, Ching-Fang 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 Ia-C-N film for recording slider protection in high-density magnetic storage application Wang Gui-Gen;Zhang Hua-Yu; Zhou Hong-Fei; Zuo Hong-Bo; Han Jie-cai 1Shenzhen Graduate School, Harbin Institute of Technology, Shenzhen 518055, China 2Center for Composite Materials, Harbin Institute of Technology, Harbin 150001, China	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 Ehsadi, Department of Chemistry, Malaya University, Malaysia	SMF 4384, Oral, Magnetic Nanoparticles in Smart Multifunctional Thin-films Srivastava Saurabh;Srivastava Vijay;2 Chatterjee Ratnasankar 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, Fahui 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	4338:Reliability Research on Interfacial Bond Performance between FRP and Concrete;Yong-chun Cheng, Ping Jiang, Chun-liang Li;School of Communication Science & Engineering, Jilin Architecture and Civil Engineering Institute, China	MPF 4956, Oral, Characterization of MW PECVD DLC thin film coated alumina Rattanasaten Chotiwat;Tonanon Nattaporn;1; Paosawatanyong Boonchoat 1Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand 2Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok, Thailand	4684 Preparation of the Electrochemical Functional NiFe2O4 Film by EB-PVD; Qiao Guofu, Song Guangping, Chen Song, Hong Yi, Ou Jingping, School of Hydraulic and Civil Engineering, Dalian University of Technology, China	4684 Preparation of the Electrochemical Functional NiFe2O4 Film by EB-PVD; Qiao Guofu, Song Guangping, Chen Song, Hong Yi, Ou Jingping, School of Hydraulic and Civil Engineering, Dalian University of Technology, China	SMF 4624, Oral, Studies of structural, magnetic, mechanical and transport properties of NiMoSb ferromagnetic shape memory alloy thin films Dawei Nee;Raj Kumar Suresh; Klaus Demberdt 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, jiarhen zhang;Mechanical and Power Engineering College, Harbin Univ. Sci. Tech., China	4371:Simulation Study of Fracture Behavior in a FMLs Specimen by 3D Elastic-Plastic Finite Element Model;xin song, zheng liu, jiarhen zhang;Mechanical and Power Engineering College, Harbin Univ. Sci. Tech., China	4874 Corrosion Protection and Formation Mechanism of Anodic Coating on SiCp/Al Metal Matrix Composite; Chunlin HE, Jianming WANG, Qingku CAI, Institute of Surface Engineering, Shenyang University, Shenyang 110844, China	4874 Corrosion Protection and Formation Mechanism of Anodic Coating on SiCp/Al Metal Matrix Composite; Chunlin HE, Jianming WANG, Qingku CAI, Institute of Surface Engineering, Shenyang University, Shenyang 110844, China	SMF 4682, Oral, Stress induced texture and trench evolution in shape memory TiNiCu films Pu YQ, Department of Mechanical Engineering, Heriot-Watt University, United Kingdom	oral	
18.35	18.50	0:15		4020:Development of Al (Art.880) particulate inserted epoxies epoxy composite material and study of their Physico-Mechanical properties;Basava T, Harirao A N S;JMIT, Mechanical Engg Dept, Vivekanandya Technological University, India	4020:Development of Al (Art.880) particulate inserted epoxies epoxy composite material and study of their Physico-Mechanical properties;Basava T, Harirao A N S;JMIT, Mechanical Engg Dept, Vivekanandya Technological University, India			SMF 4271, Oral, Synthesis and characterization of temperature-actuated thin film polyurethane-based shape memory polymers Ahmad Marzooq;Luo Jack;1, Bin Xu;2, Yongqing Fu Richard;2, Huang Weimin;3, Yong Zhao;3 Inst. 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				78	79	79	79	79	79	
standby				8066, Study on Composite Marine Propellers, Toshiro YAMATO;H2, Hideaki MURAYAMA;2, Kiyoshi UZAWA;2, Takayoshi MISHIMA;1, Yasuaki ISHIHARA;1, Naoko WATANABE;2;NAKASHIMA PROPELLER Co., Ltd., Okayama, Japan;2School of Engineering, The University of Tokyo, Tokyo, Japan						
room ac total										