



International Workshop on Functional Materials 2016
國際功能材料研討會 2016
8-11/12/2016

Programs

Thursday, 8 December 2016 **Venue: Postgraduate House (PGH), S1-G015**

7:00 p.m. – 10:00 p.m.	Welcome Gathering (Light food & drinks will be provided)	Free Attendance
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Friday, 9 December 2016 **Venue: E4-G051, Anthony Lau Building-Tai Fung Lecture Hall, Ground Floor**

9:30 a.m. – 10:00 a.m.	Opening Remarks Vice Rector (Academic Affairs), Prof. Lionel NI Presentation of Souvenirs Group Photo	Moderator: Prof. Haydn, H.D. CHEN
10:00 a.m. – 10:35 a.m.	Keynote Speech 1 Prof. Robert CHANG (Northwestern University) “Fundamentals of Indium-based Complex Amorphous Semiconducting Oxides”	Chair: Prof. Haydn, H.D. CHEN
10:35 a.m. – 11:10 a.m.	Keynote Speech 2 Prof. Kozo OSAMURA (Kyoto University) “Stress / Strain Dependence of Critical Current in Practical Superconducting Wires”	Same as above
11:10 a.m. – 11:30 a.m.	<i>Coffee Break</i> <i>(set up posters)</i>	<i>E4 Lobby</i>
	Oral Presentation: Session 1	Co-Chairs: Prof. Pu-Wei WU Prof. Haifeng LI
11:30 a.m. – 11:50 a.m.	Prof. Chi Tat KWOK (University of Macau) “Surface Modification of Engineering Alloys by Friction Stir Processing”	
11:50 a.m. – 12:10 p.m.	Prof. Hong-Cheu LIN (National Chiao Tung University) “Enhancements of Thermal Conductivities in Polymeric Composites by Aggregation-Induced Additives and their Preparation Methods”	

12:10 pm – 12:30 pm	Prof. Jiwei ZHAI (Tongji University) “Study on improving the piezoelectric properties of BNT-BKT-based thin films”	
12:30 pm – 12:50 pm	Prof. Igor RAEVSKI (Southern Federal University) “Structural, Dielectric and Mossbauer Studies of Multiferroic (1-x) Pb(Fe _{1/2} Nb _{1/2})O ₃ - xPb(Cr _{1/2} Nb _{1/2})O ₃ Solid Solution Ceramics Obtained by Usual Sintering and by High-Pressure Synthesis”	
12:50 pm – 2:30 pm	<i>Lunch</i>	<i>E5-1081, 1st floor of Food Paradise</i>
	Oral Presentation: Session 2	Co-Chairs: Prof. Yung-Jung HSU Prof. Huaiyu SHAO
2:30 pm – 2:50 pm	Prof. Jia-Hong HUANG (National Tsing Hua University) “The Oxidation Behavior and Corrosion Resistance of Vacuum Annealed ZrN-Coated Stainless Steel”	
2:50 pm – 3:10 pm	Prof. Chih CHEN (National Chiao Tung University) “Grain growth in highly (111)-oriented nanotwinned Cu films”	
3:10 pm – 3:30 pm	Prof. Iat Neng CHAN (University of Macau) “The past and present of superconductor research”	
3:30 pm – 3:50 pm	Prof. Cheng-chia CHOU (National Taiwan University of Science and Technology) Phase Transformation of Pb-free Ferroelectrics	
3:50 pm – 4:40 pm	<i>Coffee Break + poster session (26)</i>	<i>E4 Lobby</i>
	Oral presentation: Session 3	Co-Chairs: Prof. Chih CHEN Prof. Iat Neng CHAN
4:40 pm – 5:00 pm	Prof. Huaiyu SHAO (University of Macau) “Onboard and Stationary Hydrogen Energy Storage in Nanostructured Mg-based Materials”	
5:00 pm – 5:20 pm	Prof. Yung-Jung HSU (National Chiao Tung University) “Semiconductor Nanoheterostructures for Photoconversion Applications”	
5:20 pm – 5:40 pm	Prof. Guichuan XING (University of Macau) “Metal-halide perovskites for light harvesting and light emission”	
5:40 pm – 6:00 pm	Prof. Pu-Wei WU (National Chiao Tung University) “Synthesis and Characterisation of IrOx Film for Biostimulating Electrodes in Implantable Devices”	
6:00 pm – 6:30 pm	<i>IAPME and AMSV, Laboratory tour</i>	<i>N21 & N23</i>
6:30 pm – 8:30 pm	<i>Banquet</i>	<i>Fortune Inn, Guest House (N1) UM</i>

9:30 a m – 10:05 a m	Keynote Speech 3 Prof. Zikang TANG (University of Macau) “Measurement of atomic radius using monochromic visible light”	Chair: Prof. Kung-Hwa WEI
10:05 a m – 10:40 a m	Keynote Speech 4 Prof. Edward Yi CHANG (National Chiao Tung University) “Realization of GaN-Based Technology for High Power Applications”	Same as above
10:40 a m – 11:00 a m	<i>Coffee Break</i>	<i>E4 Lobby</i>
	Oral Presentation: Session 4	Chair: Prof. Fu-Hsiang KO
11:00 a m – 11:20 a m	Prof. Yuntao LIU (China Institute of Atomic Energy) “Current status of neutron facilities at CARR, China”	
11:20 a m – 11:40 a m	Prof. Li CHANG (National Chiao Tung University) “Plasma Nitridation of Sapphire and Oxides on Si”	
11:40 a m – 12:00 p m	Prof. Haifeng LI (University of Macau) “Itinerant and local-moment antiferromagnetism in intermetallic ErPd ₂ Si ₂ ”	
12:00 p m – 2:00 p m	<i>Lunch</i>	<i>E5-1081, 1st floor of Food Paradise</i>
2:00 p m – 2:35 p m	Keynote Speech 5 Prof. Haydn, H.D. CHEN (University of Macau) “Enhanced Energy Density of Well-Aligned Barium Titanate-based Nanorod/ Polyvinylidene Fluoride Composites”	Chair: Prof. Hong-Cheu LIN
2:35 p m – 3:10 p m	Keynote Speech 6 Prof. Kung-Hwa WEI (National Chiao Tung University) “Two-dimensional Transition Metal Dichalcogenides for various applications—Hydrogen plasma treated Molybdenum Disulfide monolayer in Hydrogen evolution reaction and Tungsten Diselenide/Molybdenum Disulfide monolayer heterostructure with atomically sharp interface for photovoltaics.	Same as above
3:10 p m – 3:40 p m	<i>Coffee Break + poster session (26)</i>	<i>E4 lobby</i>
	Oral Presentation: Session 5	Chair: Prof. Li CHANG Prof. Jiwei ZHAI
3:40 p m – 4:00 p m	Prof. Hui PAN (University of Macau) “MXene - Novel Two-Dimensional Monolayers for Energy Storage and Harvesting”	
4:00 p m – 4:20 p m	Prof. Fu-Hsiang KO (National Chiao Tung University) “Natural Keratin Extracted from Chicken Feathers as a Gate Dielectric Material for Organic Thin Film Transistors”	
4:20 p m – 4:40 p m	Ms. Lingmin YAO (University of Macau) “Novel Design of Highly Oriented Barium Titanates Nanorod Array”	
4:40 p m – 5:00 p m	Mr. Yuanju QU (University of Macau) “Hydrogenation-controlled phase transition and physical and catalytic properties of 2D TMD Monolayers”	

5 : 0 0 p m – 5 : 2 0 p m	Mr. Wenzhou CHEN (University of Macau) “A First Principle Study of the Structural Transformation in T1lr Shape Memory Alloys”	
5 : 2 0 p m – 5 : 4 0 p m	Ms. Bao TU (University of Macau) “Structure-activity relationship study between baicalein and wogonin by spectrometry, molecular docking and microcalorimetry”	
5 : 4 0 p m – 6 : 0 0 p m	Final Summary Discussion Closing Remarks	

Sunday, 11 December 2016 Venue: **Campus tour of University of Macau**

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