

Program for 2018 EMN Lyon Meeting

Aug. 6-10, Lyon, Italy

Monday, Aug 6

Registration

Time: 14:00~17:00

Tuesday morning, Aug 7

Room A

Session: Ionic Liquids I Chair: Elixabete Rezabal

9:00-9:25	A01: Design, Synthesis and Ionic Conductivity of Polymerized Ionic Liquids	Harry Gibson Virginia Tech, USA
9:25-9:50	A02: Tailored ionic liquids for improved polymer-filler coupling in carbon-based elastomer nanocomposites	Manfred Klüppel Deutsches Institut für Kautschuktechnologie, Germany
9:50-10:15	A03: A Hydronium Solvate Ionic Liquid with Strong Brønsted Acidity and Hopping Conduction	Atsushi Kitada Kyoto University, Japan
10:15-10:30	Coffee Break	
Session: Smart and Multifunctional Materials I Chair: Tseung-Yuen Tseng		
10:30-10:55	A04: Smart visualization of potent and process of destruction in multi-material and light weighting concept using mechanoluminescent functional material	Nao Terasaki Advanced Manufacturing Research Institute (AIST), Japan
10:55-11:20	A05: Responsive photonic crystals based on cholesteric liquid crystal elastomers	Kenji Urayama Kyoto Institute of Technology, Japan
11:20-11:45	A06: Smart Regulation of Surface Adhesion for Multifunctional Applications	Liping Heng Beihang University, China
11:45-14:00	Lunch Break	

Tuesday afternoon, Aug 7

Room A

Session: Ionic Liquids II Chair: Harry Gibson

14:00-14:25	A07: Syntheses and Properties of Mono-Protic Ionic Liquids Composed of N-alkyl (= hexyl, octyl and 2-ethylhexyl) Ethylenediaminum Cations with TFS and TFA anions	Hua Er North Minzu University, China
14:25 -14:50	A08: Ionic liquids for biomass treatment: a computational approach	Elixabete Rezabal UPV/EHU: University of the Basque Country, Spain
14:50 -15:15	A09: Absolute Negative Pressures (down to - 100MPa) in ILs : Structures in Stretched Liquids as Probed by NMR Spectroscopy	Luis Paulo N. Rebelo Faculdade de Ciencias e Tecnologia, UNL, Portugal
15:15-15:30	Coffee Break	

Session: Smart and Multifunctional Materials II Chair: Nao Terasaki

15:30-15:55	A10: Conducting-Bridge Random Access Memory	Tseung-Yuen Tseng National Chiao Tung University, Taiwan
15:55-16:20	A11: Improving sensing and optoelectronic technologies using bio-inspired polymer nano- and micro-structures	Varun VOHRA The University of Electro-Communications, Japan
16:20-16:45	A12: Optical emissions of graphene in dc electric fields	Haiming Dong China University of Mining and Technology, China
16:45-17:10	A13: Micro-Raman analysis of Si-based smart materials for energy applications	Boyun Jang Korea institute of energy research, Korea
17:10	Dinner Social	

Wednesday morning, Aug 8

Room A

Session: Ionic Liquids III Chair: Luis Paulo N. Rebelo

9:00-9:25	A14: Dipolar Self-Consistent Field Theory for Ionic Liquids: Effects of Dielectric Inhomogeneity in Ionic Liquids between Charged Plates	Issei Nakamura Michigan Technological University, USA
9:25-9:50	A15: Designed solvents as electrolyte and electrochromic materials for Electrochemical applications	Hugo Cruz Universidade NOVA de Lisboa, Portugal
9:50-10:15	A16: Ionic Liquids for CO ₂ capture and conversion	Boyan Iliev Iolitec Ionic Liquids Technologies GmbH, Germany
10:15-10:30	Coffee Break	

Session: Smart and Multifunctional Materials III Chair: Tseung-Yuen Tseng

10:30-10:55	A17: Sensing of Hardly Detectable Hidden Chirality Based on Helicity Induction and Memory Effect in a Helical Polyacetylene	Katsuhiko Maeda Kanazawa University, Japan
10:55-11:20	A18: Free-standing atomically thin zinc oxide layers with unique luminescent properties	Haiping He Zhejiang University, China
11:20-11:45	A19: Design and synthesis of novel gas sensor materials	Krystelle Lioni IBM Almaden Research Center, USA
11:45-12:05	A20: The smart materials and their introduction in composite materials for failure analysis investigations: Applications in new technological structures	Brahim Necib University of Mentouri Constantine 1, Algeria
12:05-14:00	Lunch Break	

Wednesday afternoon, Aug 8		
Room A		
Session: Caloric Materials Chair: Krystelle Lioni		
14:00-14:25	A21: Towards giant barocaloric materials with low hysteresis	Guillaume Nataf University of Cambridge, UK
14:25 -14:50	A22: Thermal strain induced large electrocaloric effect of relaxor thin film on LaNiO ₃ /Pt composite electrode with the coexistence of nanoscale antiferroelectric and ferroelectric phases in a broad temperature range	Biaolin Peng Guang Xi University, China
14:50-16:00	Poster (&Coffee Break)	
17:00PM	Dinner Social	

Wednesday afternoon, Aug 8		
Poster session (14:50-16:00) Chair: Krystelle Lioni		
P01	Fe ₂ O ₃ decorated vertical Graphene for Supercapacitor Application	Sang Mun Jeong Chungbuk National University, Korea
P02	Tumour-responsive imaging and Photodynamic and hyperthermia combination therapy with magnetic nanoparticles	Young-um Jo The Catholic University of Korea, Korea
P03	Composition controlled seed layer mediated growth of layered double hydroxide nanomaterials	Il-Kyu Park Seoul National University of Science and Technology, Korea
P04	Multifunctional magnetic nanoparticles for tumor imaging and targeting	Jeongdeok Seo The Catholic University of Korea, Korea
P05	Fabrication and Characterization of Solid-State Potentiometric Hydrogen Gas Sensor Based on a Protonated Nafion Membrane	Soon-Won Jung Hanbat National University, Korea
P06	Influence of oxygen flow rate on optical and electrical properties of flexible Mn-SnO ₂ /Ag/Mn-SnO ₂ multilayer thin films on PET substrate	Guneik Jang Chungbuk National University, Korea
P07	Nanoparticle solution properties based laser sintering	Huseung Lee Chungnam National University, Korea
P08	Towards high-performance Pt-based nanocatalysts for oxygen reduction reaction through organic-inorganic hybrid concepts	Sung Jong Yoo Korea Institute of Science and Technology, Korea
Thursday, Aug 9		
One-day excursion		

