

Program for EMN Orlando 2017		
Monday Dec. 4 (14:00-17:00)		
On-site Registration		
Tuesday Dec. 5		
Room B		
	Lunch Break	
Session: EMN Droplets I Chair: Anna Martinelli		
13:30-13:55PM	The involvement of lipid synthesis pathways in the regulation of milk fat globule size	Nurit Argov-Argaman Hebrew University of Jerusalem, Israel
13:55 -14:20PM	Active Demulsification Using Photo-responsive Surfactants	Yukishige Kondo Tokyo University of Science, Japan
14:20 -14:45PM	Internally structured multi-compartment nanodroplets by fusion processing	Thomas G. Mason UCLA, USA
14:45 -15:10PM	Dynamics of Miscible Liquid-Liquid Interface Studied by Droplet Collision	Jun-ya Kohno Gakushuin University, Japan
15:10 -15:35PM	Penetration Behavior of a Water Droplet into a Cylindrical Hydrophobic Pore	Yoshimune Nonomura Yamagata University, Japan
15:35-15:50PM	Session Break	
Session: EMN Multifunctional Hybrid Nanomaterials I Chair: Thomas G. Mason		
15:50-16:15PM	2D materials on carbon for improved electrocatalyst	Ram Gupta Pittsburg State University, USA
16:15-16:40PM	Modified nano-porous silica for enhanced ionic and protic conduction	Anna Martinelli Chalmers University of Technology, Sweden
16:40-17:05PM	Conversion of CO ₂ into useful chemical products using bio-electrochemical catalysis	Liviu Mihai Dumitru Johannes Kepler University, Austria
17:05-17:30PM	Graphene and Beyond: Synthesis and Characterization	Ariel Ismach Tel-Aviv University, Israel
17:30-17:55PM	Metallized Nitrogenated Holey Graphene Nanosheets (C ₂ N): A Promising Material for High Capacity Clean Energy Storage	Tanveer Hussain The University of Queensland, Australia
17:55PM	Dinner Social	

Program for EMN Orlando 2017		
Wednesday Dec. 6		
Room B		
Session: EMN Droplets II Chair: Jean-Paul (Moshe) Lellouche		
8:20-8:55	Dewetting of thin films and droplet coarsening in the presence of long range and oscillatory interactions	Leonardo Golubovic West Virginia University, USA
8:55-9:20	Nuclear Lipid droplets are a dynamic cellular organelle	Ana Ves-Losada National University of La Plata, Argentina
9:20-9:45	On wetting of superhydrophobic surfaces by the droplet impact	Ken Yamamoto Tokyo University of Science, Japan
9:45-10:20	Poster Session	
Session: EMN Multifunctional Hybrid Nanomaterials II Chair: Ram Gupta		
10:20-10:45	Multi-functional perovskites for multi-source energy harvesting and sensing: from ceramics to nanomaterials	Yang Bai University of Oulu, Finland
10:45 -11:10	Nanostructured Si-Ge:H films: Electronic Properties for PV and Other Device Applications	Andrey Kosarev/Ismael Cosme Bolanos Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), Mexico
11:10-11:35	Novel Versatile Surface Chemical Engineering of Mechanically Robust Inorganic Tungsten Disulfide (WS ₂) Nanotubes (f-INT-WS ₂) - Potentiality for Novel Non-Toxic Inorganic Polymer-Based Nanoscale Nanofillers	Jean-Paul (Moshe) Lellouche Bar-Ilan University, Israel
11:35-12:00	Exploring electromagnetic responses of nanocomposites as absorbers	Sangeeta Kale Defence Institute of Advanced Technology (DIAT), India
12:00-13:30	Lunch Break	
Session: EMN Droplets III Chair: Jiming Bao		
13:30-13:55	A Remark on Gas Flow during the Very Early Stage of Droplet Impact: Numerical Analysis of Gas Flow in a Suddenly Moving Corner	Yoshinori JINBO National Center for Theoretical Sciences, National Taiwan University, Taiwan

13:55 -14:20	Droplet microfluidics with embedded logic operations	Piotr M. Korczyk Polish Academy of Sciences, Poland
14:20 -14:45	Studying the real-time interplay between triglyceride digestion and bioaccessibility of lipophilic micronutrients using droplet-based microfluidics	Hoang-Thanh Nguyen INRA, France
14:45 -15:10	Microfluidic Separation of Main and Satellite Emulsion Droplets through Micropillar Arrays	Takasi Nisisako Tokyo Institute of Technology, Japan
15:10 -15:35	Water droplets bouncing off textured hydrophobic surfaces	Jun Zou/Chen Ji Zhejiang University, China
15:35-15:50	Session Break	
Session: EMN Droplets IV Chair: Piotr M. Korczyk		
15:50-16:15	Laser streaming: Turning a laser beam into a flow of liquid	Jiming Bao University of Houston, USA
16:15-16:40	Nanospace fluids under minimal amplitude shear	Masami Kageshima Osaka Electro-Communication University, Japan
16:40-17:05	Drop properties in the near nozzle section of a high pressure hollow cone spray	Fredrik Innings Lund University, Sweden
17:05-17:30	Synthesis of oxide-free Cu nanoparticles under the atmospheric condition and their complete decomposition	Hideki Tanaka Chuo University, Japan
17:30-17:55	Step droplets on a crystal surface with properties similar to one-dimensional clusters	Noriko Akutsu Osaka Electro-Communication University, Japan
17:55	Dinner Social	

Program for EMN Orlando 2017		
Thursday Dec. 7		
Room B		
Session: EMN Nanopores and nanocomposite Chair: Masanori Kikuchi		
8:25-8:50	An Optical Study of Molecular Transport and Accumulation in Nanoporous Silica Gel	Gary Tepper Department of Mechanical and Nuclear Engineering, USA
8:50-9:15	On the Detection, Characterization, and Identification of Single Molecule with Nanopores	John J. Kasianowicz National Institute of Standards and Technology (NIST), USA

	Thermodynamics in nanoporous electrodes	Kenji Kiyohara National Institute of Advanced Industrial Science and Technology (AIST), Japan
9:40-10:05	From Mayan pigments to innovative nanocomposite materials and beyond	Roberto Giustetto University of Turin, Italy
10:05-10:20	Session Break	
Session: EMN Droplets V Chair: John J. Kasianowicz		
10:20-10:45	Hydroxyapatite/collagen nanocomposite paste for additive manufacturing of scaffold	Masanori Kikuchi Bioceramics Group, Research Center for Functional Materials, National Institute for Materials Science, Japan
10:45 -11:10	Spray and Droplet combustion on bio-oil multicomponent fuel	Ian Shou-Yin Yang National Formosa University, Taiwan
11:10-11:35	Kinetics of dissolution during polymeric Janus particle formation	Pavithra Sundararajan Pavithra Sundararajan, Merck & Co. USA
11:35-12:00	Droplets and the three-phase interface for heat and mass transport	Shawn A. Putnam University of Central Florida, USA
	Lunch Break	
Session: EMN Droplets VI Chair: Antonio S. Araujo		
13:30-13:55	The Effects of the surface roughness on the dynamic behavior of the micro droplet impacting onto inclined hot surface	Masamichi Kohno Kyushu University, Japan
13:55 -14:20	Effect of chemical compounds on artificial cell models	Kazunari Yoshida Yamagata University, Japan
14:20 -14:45	Contact Line Friction of Electrowetting Actuated Viscous Droplets	Quoc Vo Nanyang Technological University, Singapore
14:45 -15:10	Innovative Lithium Recycling Technology from Used Li-ion Batteries using a Lithium Ionic Superconductor	Tsuyoshi HOSHINO National Institutes for Quantum and Radiological Science and Technology (QST), Japan
15:10 -15:35	Microstructure formation in a drop of immiscible alloys	Jiuzhou Zhao Institute of Metal Research, Chinese Academy of Sciences, China
15:35-15:50	Session Break	
Session: EMN Multifunctional Hybrid Nanomaterials III Chair: Tsuyoshi HOSHINO		

15:50-16:15	Nano-fluorescence-probes based on supramolecular assemblies	Bo Song Soochow University, China
16:15-16:40	Novel materials and fabrication techniques for wearable energy generation and storage devices - from piezoelectric fibers to li-ion threads	Maksim Skorobogatiy Ecole Polytechnique de Montréal, Canada
16:40-17:05	Structural and optical properties of bimetallic linear atomic chains of Au-Ag and Au-Pt	Ami Chand Sharma University of Baroda, India
17:05-17:30	Development of hybrid micro-mesoporous materials for pyrolysis of petroleum residue	Antonio S. Araujo Federal University of Rio Grande do Norte, Brazil
17:30-17:55	Cation Exchange: past, present, future	Alberto Casu King Abdullah University of Science and Technology, Saudi Arabia
17:55	Dinner Social	
Wednesday Dec. 6 Poster Session		
P1: Spectroscopic and electron-microscopic investigation on wings of Chrysopidae family (green lacewings)	Kazunari Yoshida Yamagata University, Japan	
P2: Optical properties of carbon nanodots prepared in different solvents and their applications in pH sensing	Yun Lu Nanjing University, China	
P3: Spray deposition of transparent conducting networks with high uniformity on flexible substrates	Geon-Woong Lee Korea Electrotechnology Research Institute, Korea	
P4: Non-aqueous quasi-solid state electrolyte based electrical double layer capacitors	Ji Su Chae Korea Institute of Ceramic Engineering & Technology, Korea	
P5: Ribbon-like activated carbon with a multi-structure for supercapacitor	Kwang Chul Roh Korea Institute of Ceramic Engineering & Technology, Korea	
P6: Solution-Processed Indium Zinc Oxide Thin-Film Transistors by Different Spin Coating Speed	Zi-Tong Ao/Sung-Jin Kim Chungbuk National University, Korea	
P7: Efficient Interface Treatment using Polymer Nanolayer for High Performance Inverted Polymer Solar Cells	Sungho Woo DGIST, South Korea	
P8: Facile synthesis of NiCo ₂ O ₄ /CNTs hybrid nanostructure as an electrocatalyst for methanol oxidation	Tarekegn H. Dolla University of Johannesburg, South Africa	

