

August 13-15 2018	TENTATIVE SCIENTIFIC PROGRAM
Day 1	13-Aug-18
Breakout Room 1	
13-Aug-18	13-Aug-18
09:15-09:45	Registrations
09:45-10:00	Opening Ceremony
Keynote Forum	
09:45-10:00	Introduction
Keynote	
10:00-10:30	Sheng-Lung Huang , National Taiwan University, Taiwan
10:30-11:00	Yu-Tai Tao , Institute of Chemistry, Academia Sinica, Taiwan
Coffee break: 11:00-11:20	
11:20-11:50	Wazirzada Aslam Farooq , King Saud University, Saudi Arabia
11:50-12:20	G.K. Elyashevich , Russian Academy of Sciences, Russia
Session Introduction	
Biomaterials and Tissue Engineering Graphene and Energy Materials Nano sciences and nanotechnologies Surface Science and Engineering, Thin films, Corrosion and degradation of materials	
Session Chair	
12:20-12:45	Title: Modeling of Phase Separation in Alloy Nanoparticles: Size-Dependent Diagrams and Finite-Size Scaling
	Leonid Rubinovich , Ben-Gurion University of the Negev, Israel
12:45-01:10	Title: Fabrication of TiO₂-Reduced Graphene Oxide Nanorod Composition Spreads Using Combinatorial Hydrothermal Synthesis and Their Photocatalytic and Photoelectrochemical Applications
	Kao-Shuo Chang , National Cheng Kung University, Taiwan
Lunch: 13:10-14:00	
14:00-14:25	Title: Brazing between Kovar and high volume fraction SiCp/Al composites
	Jitai Niu , Henan Polytechnic University, China
14:25-14:50	Title: Growth mechanism of GaInN/GaN multi-quantum shells and GaN nanowire structure grown by metalorganic vapor phase epitaxy
	Satoshi Kamiyama , Meijo University, Japan
14:50-15:15	Title: Defects on hBN/black phosphorene heterostructures: A theoretical study
	Eduardo Cisternas , Universidad de La Frontera, Chile
15:15-15:40	Title: The mechanism and controlling of thermal coarsening of nanoporous gold
	Satoko Kuwano-Nakatani , Tohoku Gakuin University, Japan
15:40-16:05	Title: Multiphoton Photodegradation of cyanine dyes
	Masanori Fuyuki , Kio University, Japan

16:05-16:30	Title: Microstructure evolution and cycle oxidation behaviors of hot-dipped Al-Si coating on TiBw/Ti6Al4V composites with network microstructure
	Xinting Li, Harbin Institute of Technology, China
Coffee break: 16:30-16:50	
Day-2	14-Aug-18
Keynote	
10:00-10:30	Kent Kammer Hansen , Technical University of Denmark, Denmark
10:30-11:00	Duck-Kyun Choi , Hanyang University, South Korea
Coffee break: 11:00-11:20	
11:20-11:50	Susil K. Putatunda , Wayne State University, United States
Materials Science and Engineering	
Session Chair	Rong Liu, Carleton University, Canada
11:50-12:15	Title: Corrosion performance of Stellite 6 alloy and 17-4PH stainless steel in amine solutions
	Rong Liu, Carleton University, Canada
12:15-12:40	Title: Thermal and mechanical properties of POSS-Cyanate ester/epoxy nanocomposites
	Sarojadevi, Anna University, India
12:40-13:05	Title: Poly (vinyl alcohol) Protecting Layer in Lithium Based Batteries
	Youngsuk Jung, Samsung Advanced Institute of Technology, South Korea
Lunch: 13:05-13:55	
13:55-14:20	Title: Preparation and application of novel materials based on cross-linking modification
	Baofeng Lin, Guangxi University, China
14:20-14:45	Title: Hybrid silica membranes for selective separation of small gases under hydrothermal conditions
	Mieke Luiten-Olieman, University of Twente, Netherlands
14:45-15:10	Title: Fatigue Resistant Cu/Gr Nanolayered Composites for Highly Reliable Flexible Interconnect
	Byungil Hwang, Chung-Ang University, South Korea
15:10-15:35	Title: Template method used for position control of individual silica-coated quantum dot and formation of quantum-dot perfect superlattice
	Kohki Mukai, Yokohama National University, Japan
15:35-16:00	Title: Microstructural evolution of vibration-assisted weld metal after Fatigue in stainless steel
	Shing-Hoa Wang, National Taiwan Ocean University, Taiwan
16:00-16:25	Title: Comparison of theoretical and experimental optoelectronic properties of single walled carbon nanotube nanomaterial
	BAYRAM GÜNDÜZ, Alparslan University, Turkey
Coffee break: 16:25-16:45	
Day-3	15-Aug-18
Nanomaterials and Nanocomposites	
Mining and Metallurgy	
Materials Chemistry and Sustainable Chemistry	
Process Modeling, Simulation, Optimization and Control	
Polymers and Biopolymers	
Introduction	
Session Chair	Kazuaki Sanada, Toyama Prefectural University, Japan

10:00-10:25	Title: Prediction of mechanical properties of carbon nanocoil/epoxy composites using RVE approach
	Kazuaki Sanada , Toyama Prefectural University, Japan
10:25-10:50	Title: Effect of calcium ion concentration on resistance to fracturing in rock in water
	Yoshitaka NARA , Kyoto University, Japan
Coffee break: 10:50-11:10	
11:10-11:35	Title: Smart architectures of nanomaterials as heterogeneous catalytic system towards production of value-added chemicals and solar-fuel
	Debraj Chandra , Tokyo Institute of Technology, Japan
11:35-12:00	Title:
	Seongmin Lee , Hanwha-total Petrochemical Company, South Korea
Posters: 12:00-13:15	
Title: Thermal characterization of electrically aged and heat treated silicone	
Nacéra ROUHA , Université de Bejaia, Algeria	
Title: Characterization of the Fluorescent Nanodiamond for Biological Applications	
Natalya Froumin , Ben-Gurion University of the Negev, Israel	
Title: Mechanical Properties of Sediment Mortar from Lake BIWA	
Yuma Kawasaki , Ritsumeikan University, Japan	
Title: A Novel structure of microneedle device and its fabrication technology by using biocompatible polyvinyl alcohol (PVA) and gelatin	
Hirofumi Miki , Wakayama University, Japan	
Title: Fabrication of highly electrical synthetic leather with strong fatigue resistance based on polyurethane/poly(3,4-ethylene dioxythiophene)/poly(styrene sulfonate)	
Eun Joo Shin , Dong-A University, South Korea	
Title: Acoustic Characteristics of Enclosure using Cementitious Materials	
Masahiro TAKEUCHI , Ritsumeikan University, Japan	
Title: Study on Damage location analysis of Laminated Rubber Bearing using AE method under Cyclic Compression Loading	
Akihiro Tanaka , Ritsumeikan University, Japan	
Title: Study on Effective Utilization of Porous Concrete mixed with Sediment from Lake Biwa	
Ryoya SHIMOHARA , Ritsumeikan University, Japan	
Title 1: Anisotropic Mechanical Behavior of Additive Manufactured AISI 316L Steel	
Title 2: Relationship between texture development and deformation twinning activity in Ti-15Mo alloy	
Song KH , Chosun University, South Korea	
Title: MoS₂/Polyelectrolytes Nanohybrid Membranes with Enhanced Permselectivity	
Hongxia Guo , Beijing University of Technology, China	
Title: Substituent effects on the dyeing and fastness properties of 4-aminoazobenzene dye in Polyester/Polyurethane blends dyeing	
Eunkyo Lee , Konkuk University, South Korea	
Title: Synthesis and characterization of eco-friendly colored polyurethanes incorporating castor oil-based polyols and azo dye structure	
Hyunsang Cho , Konkuk University, South Korea	
Title: Synthesis of temporarily solubilized azo disperse dyes containing β-sulphatoethylsulphonyl group and their dyeing properties on PET/PU blend	
Yewon Kim , Konkuk University, South Korea	
Title:	
Sangeui Lee , Pusan National University, South Korea	

Title: Fabrication of reactive poly(phenyl-substituted siloxanes/silsesquioxanes)with Si-H and alkoxy functional groups via the Piers-Rubinsztajn reaction	
Minghao. Yi , Zhongkai University of Agriculture and Engineering, China	
Title: Impact of Natural Hemp Aggregates` Infusion on Properties of Various Mineral Binders	
L. Vitola ,Riga Technical University, Latvia	
Title: Effect of Oxi-nitrocarburizing Parameters on Microstructure, Nanohardness and Corrosion Property for Low Carbon Steel	
Young-Wook Cho , Pusan National University, South Korea	
Lunch: 13:15-14:05	
14:30-14:55	Title:Etching properties of piezoelectric b-phase poly (vinylidene fluoride) film
	Hirofumi Miki , Wakayama University, Japan
14:55-15:20	Title:Anisotropic crystal growth, optical absorption, and ground state energy level of PbS quantum dots adsorbed on the different surface
	Taro Toyoda , The University of Electro-Communications, Japan
15:20-15:45	Title: Synergistic corrosion inhibition of aluminum by new polymer in acidic media
	Rasha Abdel Baseer Taha Muhammed , National Research Centre, Egypt
15:45-15:10	Title: Multiple anisotropic elliptical inclusions of arbitrary orientation in an
	Jungki Lee , Hongik University, South Korea
15:10-15:35	Title: Mechanism and Simulation Experiment Research on Twin-roll Thin-strip VibrationCasting
	Sun Minghan , Yanshan University, China
15:35-16:00	Title:
	Shufang Fu , Zhongkai University of Agriculture and Engineering, China