

Thursday, 4 August 2022

Time	Activity
14.00-18.30	Registration

Friday, 5 August 2022

Time	Activity at Ballroom 1 and 2			
08:30-09:10	Registration			
09:10-09:40	Welcome and Conference Opening/ Group photo			
09:40-10:00	Coffee Break			
10:00-10:45	Keynote Presentation I (Online) by Prof. Dr. Morinobu Endo (Shinshu University, Japan) " Carbon Nanotubes: Mass Production and Applications for Sustainability"			
10:45-11:30	Keynote Presentation II By Dr. Adisorn Tuantranont (National Science and Technology Development Agency, Thailand) " Graphene Technology for Energy Storage Devices"			
11:30-12:00	Special Talks			
12:00-13:00	Lunch			



Friday, 5 August 2022 (P.1)

Time	Ballroom 1	Ballroom 2	Meeting room 1	Meeting room 2	Meeting room 3
13:00-13:15	Optics & Electronics I (OEM I)	Energy&Environment I (EEM I)	Sensor & Sensing Materials I (SSM I)		Bio-Carbon Materials (BCM)
13:15-13:30	Invited I: Prof. Dr. C.K. Jayasankar "Compositional Dependence Spectroscopic Studies of Dy³-doped Glasses for Optical Device Applications"	Invited I (Online): Prof. Balaji Rao Ravuri "Variation on Long Term Electrochemical Stability of Sodium-Vanadium Glass and Glass-ceramic Anode Half-cell Network Mixed with ZnO"	Invited I: Asst. Prof. Dr. Theerakiat Kerdcharoen "Digitalization of Smell: Development of Chemical Sensors from Lab to Startup Business"		Invited I: Assoc. Prof. Dr. Dheerawan Boonyawan "Nightingale®: a Novel Source for Plasma-Driven Biocatalysis"
13:30-13:45	Invited II: Asst. Prof. Dr. Piyachat Meejitlaisan "Broadband 1.53 µm Emission	EEM-OR01 (Ab-ID015): "Effect of Processing Parameters on Dielectric, Ferroelectric and Energy Storage Properties of Nd ₂ O ₃ Modified BNT-based Lead-free Ceramics"	SSM-OR01 (Ab-ID069): "The Sensitivity Improvement of Electrochemical Non-enzymatic Glucose Sensor by Means of Solar-radiation on Gold Nanoparticles-decorated Iron Oxide Nanorods"		Invited II: Assoc. Prof. Dr. Pakorn Opaprakasit
13:45-14:00	Characteristics of Er ³⁺ Doped Alkali Oxyfluorophosphate Glass for Fiber Optic Communication Material"	EEM-OR02 (Ab-ID046): "Biocompatible and Biodegradable Gamma Glycine Treated Bacterial Cellulose Nanofibrils Based on Hybrid Piezoelectric- Triboelectric Nanogenerator"	SSM-OR02 (Ab-ID091): "The Effect of Temperature on Carbaryl Pesticide Detection by Using Ion-Sensitive Field Effect Transistor"		"Functional Materials from Responsive Polymeric Hybrid Nanoparticles"
14:00-14:15	OEM-OR01 (Ab-ID035): "Improvement of Luminescence Performance by Addition Potassium Fluoride in Li ₂ O-AIF ₃ - NaF- P ₂ O ₅ Glass Doped with Eu ₂ O ₃ Content for Efficient Reddish- Orange Applications"	EEM-EOR01 (Ab-ID080): (Online) "Energy Harvesting of Time-dependent Electromagnetic Field Wasted from Triboelectric Generators"	SSM-OR03 (Ab-ID065): "Photoelectrochemical Hydrogen Peroxide Detections based on Bismuth Vanadate Thin Film Prepared by Pulsed Laser Deposition System"	Special Symposium I: MRS and JASTIP (13.45-17.15)	BCM-OR01 (Ab-ID036): "Synthesis of Nano Porous Carbon Derived from Vinasses Wastes for Trihalomethanes Adsorption Application"
14:15-14:30	OEM-OR02 (Ab-ID030): "Luminescence Behavior of Sm³+ Ion Doped Pottasium Aluminium Gadolinium Phosphate Glasses as Orange Laser and Photonics Applications	Coffee break	SSM-OR04 (Ab-ID072): "Vehicle-Theft Detection Device with Image Recognition on Google Cloud Vision"		BCM-OR02 (Ab-ID039): "Synthesis of Lignin Extracted from Black Liquor to Nano Porous Carbon Materials for Tetracycline Adsorption Application"



Friday, 5 August 2022 (P.2)

Time	Ballroom 1	Ballroom 2	Meeting room 1	Meeting room 2	Meeting room 3
14:30-14:45	OEM-OR03 (Ab-ID031): "Development Luminescence and Energy Transfer from Gd³+ to Sm³+ of Tungsten Calcium Silicoborate Glass for Orange Emission Material Application"	Coffee break	SSM-EOR01 (Ab-ID056): (Online) "IoT-Based Real Time pH Monitoring of University of Mindanao's Chemical Laboratory Wastewater"		BCM-OR03 (Ab-ID042): "Bacterial Cellulose Nanopaper: Preparation, Characterization and Its Applications as Sensing Platforms"
14:45-15:00	OEM-OR04 (Ab-ID034): "A Study on Physical and Luminescence Properties of Sm³+ Ions Doped Li ₂ O:Al ₂ O ₃ :La ₂ O ₃ :B ₂ O ₃ Glasses"	Nanomaterials I (NMA I) Invited I:	Coffee break	Special Symposium I: MRS and JASTIP (13.45-17.15)	BCM-OR04 (Ab-ID097): "The Preparation Characterization and Bioactivity Study of Bioactive Glass Nanoparticles"
15:00-15:15	OEM-OR05 (Ab-ID044): "Influence of Calcium Fluoride on the Radiative Properties of Sm ³⁺ Doped Zinc Borophosphate Glasses"	Dr. Waluree Thongkam "Thailand Nanosafety and Nanotechnology Ethics Implementation"	Material Fabrication (MFM) Invited I:		BCM-OR05 (Ab-ID098): "A Study on Conversion of Liquid Benzene Derivatives to Value- added Carbon Nanotubes Using Fe and Ni on Alumina Catalysts"
15:15-15:30	Coffee break	Invited II (Online): Prof. Dr. Takashi Ikuno	Takashi Ikuno Devices"		fee break
15:30-15:45	Optics & Electronics II (OEM II)	Carbon Nanotubes" Invited II: Dr. Pinit Kidkhuntod	Dr. Pinit Kidkhuntod	Special Symposium II:	Materials for Health Science (MHS)
15:45-16:00	Prof. Dr. Supon Ananta "Perovskite Ferroelectric Ceramics: Domain Evolution Behavior and Dielectric Properties"	NMA-EOR01 (Ab-ID064): (Online) "Direct Fabrication of Carbon Nanotube Wirings on Plastic Films Using a Laser Thermal Transfer Method"	"X-ray Absorption Spectroscopy: The State of the Art Synchrotron-based Characterization"	MRS and JASTIP (13.45-17.15)	Assoc. Prof. Dr. Paul Gleeson "Probing Inorganic Catalytic Materials and Biological Enzymes using Computational Simulations"



Friday, 5 August 2022 (P.3)

Time	Ballroom 1	Ballroom 2	Meeting room 1	Meeting room 2	Meeting room 3
16:00-16:15	OEM-OR06 (Ab-ID033): "Investigation of Manganese Oxide (Mn₂O) Doped in Calcium Sodium Borosilicate Glasses for Photonics Materials Application"	NMA-EOR02 (Ab-ID060): (Online) "Improvement of Output Power of Triboelectric Generators by Adding TiO ₂ Particles into PDMS Films"	MFM-OR01 (Ab-ID019): "Design and Fabrication of Flexible Thermoelectric Generator: An Experimental and Simulation Study"		MHS-OR01 (Ab-ID017): "Effects of Ag-doped Content on Antimicrobial Activity and Substrate Color of Chromium Thin Films Deposited by DC Magnetron Sputtering"
16:15-16:30	OEM-OR07 (Ab-ID025): "X-ray Source Using Pyroelectric Crystals under UV Laser Irradiation"	NMA-OR01 (Ab-ID047): "Flexible Bacterial Cellulose— Titania Nanotubes Composite for Wireless Motion Sensor"	MFM-OR02 (Ab-ID057): "Effect of Copper Percentage in Copper Tungsten Electrode on Ti ₆ Al ₄ V by Electrical Discharge Machining"		MHS-OR02 (Ab-ID048): "Analysis of Asbestos Contamination Found in Talc Powder Products Marketed in Thailand Using X-ray and Infrared Spectroscopies"
16:30-16:45	OEM-OR08 (Ab-ID106): "Giant Dielectric Properties of (Sn/Ta) Co-doped TiO ₂ Ceramics"	NMA-OR02 (Ab-ID061): "The effect of Annealing Treatment on WO ₃ Thin Film Prepared by Reactive DC Magnetron Sputtering for Photo-electrochemical Water Splitting Application"	MFM-OR03 (Ab-ID068): "Role of Sb Species on Electrical Properties of Sb-doped ZnO Prepared by Pulsed Laser Deposition"	Special Symposium II: MRS and JASTIP (13.45-17.15)	
16:45-17:00	OEM-OR09 (Ab-ID010): "Investigation on Optically Ultraviolet Response of Low- dimensional ZnO Structures Prepared by Chemical Processes"	NMA-OR03 (Ab-ID062): "Surface Modification on ZnO Nanorod as a Template Substrate for ELISA Technique and Dengue Virus Detection Application"	MFM-OR04 (Ab-ID084): "Production of Elastomeric Fibers from Natural Rubber Latex by Electrospinning"		
17.00-17.15		NMA-OR04 (Ab-ID083): "Hydrothermal Fabrication of Nanosheets on Electrospun Titanium Dioxide Nanofibers"	MFM-OR05(Ab-ID102): "TOPSIS Based Selection of Optimal Parametric Combination during Laser Surface Texturing of Zirconia Ceramic"		
17:00-18:30	Poster Session I (All sessions)				
19.00-21.00	Conference Banquet				



Saturday, 6 August 2022

Time	Ballroom 1	Ballroom 2	Meeting room 1	Meeting room 2	
08:30-09:30	Registration				
09:15-10:30		Poster Session II (A	II sessions and Online poster)		
10:30-10:45		Cof	fee break		
10:15-10:45			Computational (COM)		
			Invited I (Online): Prof. Dr. Siriporn Jungsuttiwong "Encouraging Metal-free Catalyst Reactivity with a Synergistic Effect on Phosphorus and Nitrogen co-doped Graphene for Catalyzed co-oxidation Reaction"		
10:45-11:00 11:00-11:15	Sensor&Sensing Materials II (SSM II) Invited II: Prof. Dr. Toru Aoki "TIBr Single Crystal Growth and Device Process for Radiation Detector"		Advanced Functional & Nanomaterials II (AFM) & (NMA II) Invited I (Online): Prof. Dr. Andrej Kuznetsov "Disorder Induced Ordering in Materials:	Energy&Environment II (EEM II) Invited II (Online): Prof. Dr. Puangrat Kajitvichyanukul "Pesticide Removal from Environmental Media Using Physico-chemical and Biological	
		Special Session: Biomedical Applications	Discovery of a New Nanoscale Process Resulting in Macroscopic Transformations"	processes"	
11:15-11:30	SSM-OR05 (Ab-ID009): "Gas Sensors Based On Tellurium-Filled Carbon Nanotubes"	(09.45-12.00)	AFM-OR01 (Ab-ID020): "Design and Construction of Lanthanide Coordination Polymers for Highly Performance Catalysts in CO ₂ Cycloaddition Reactions"	EEM-OR03 (Ab-ID086): "Mercury Removal Efficiency of Disulfide- and Thiol-functionalized Lanthanide Coordination Polymers"	
11:30-11:45	SSM-OR06 (Ab-ID022): "Study of Novel Neutron Detector Using Vertical Type BGaN Semiconductor"		NMA-OR05 (Ab-ID104): "Comparison of TOPSIS, ARAS and MOORA MCDM Techniques in Optimization of Photochemical Machining Process"	EEM-OR04 (Ab-ID107): "Synthesis and Characterization of 2-Dimensional ZSM-5 Catalyst Using C22-6-6Br2 Template"	



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11:45-12:00 12:00-13:30	SSM-OR07 (Ab-ID023): "Comparison of X-ray Penetration Image Contrast between CdTe and TIBr Detectors"	Special Session: Biomedical Applications (09.45-12.00)	NMA-OR06 (Ab-ID109): "Functional Magnetic Polymeric Nanoparticles and Their Applications in Medical and Industrial Applications"	EEM-OR05 (Ab-ID108): "Cobalt-based Catalysts Supported on Urea-Modified Sheet-Like ZSM-5 for Hydrodeoxygenation of Fatty acid Methyl Esters"	
12.00-13.30	Lunch				
13.30-14.30	Closing Ceremony and Award				
14.30-15.00	Coffee break				