

Date : 12 Feb 2026				
Session : Materials Science and Nanotechnology				
Room : G10				
Time	Presentation Code	Topic	Presenter	Section
14.30-14.55	MN-K-01	Polymer Photocatalysts for Artificial Photosynthesis: From Molecular Design to AI-Accelerated Discovery	Prof.Dr. Ho-Hsiu Chou	Oral 1A Chairman : Prof.Dr. Vinich Promarak Co-Chair : Dr. Rongrong Cheacharoen
14.55-15.20	MN-K-02	Anisotropic d ¹⁰ Coinage Metal Organic Chalcogenolate Coordination Polymers for Optoelectronic Technologies	Dr. Aude DEMESSENCE	
15.20-15.40	MN-I-01	Rational bio-additive design for Perovskite solar cells: synergizing Lewis-base adducts and macromolecular topology	Dr. Rongrong Cheacharoen	
15.40-15.55	MN-O-01	Crystallization and Light Emission in Semiconducting Metal Organochalcogenides	Dr. Watcharaphol Paritmongkol	
15.55-16.10	Coffee Break			
16.10-16.30	MN-I-02	Biosynthesis and Characterization of <i>Clerodendrum schmidtii</i> -Mediated Silver Nanoparticles for Anti-Angiogenic Applications	Dr. Danila Paragas	Oral 1B Chairman : Dr. Danila Paragas Co-Chair : Assoc. Prof. Dr. Sutinee Girdthep
16.30-16.45	MN-O-03	Nanoprecipitation Encapsulation of Bioactive Peptide/Protein in PLGA via Benchtop Millifluidic Device	Ms. Thanyachon Tangkatitham	
16.45-17.00	MN-O-04	Extraction and Characterization of Hydroxyapatite from Tilapia and Red Tilapia Fish Scales	Mr. Yuttayong Sriraksa	
17.00-17.15	MN-O-05	Efficient visible-light photocatalysis of water dispersible silver nanocomposites protected with polyphosphoesters	Ms. Thanaporn Jullabuth	
17.15-17.30	MN-O-06	Comparative study of antioxidant properties of nitrogen and sulfur doped mangosteen peel carbon dots and its packaging application	Ms. Pongsiri Rueangprat	

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Session : Materials Science and Nanotechnology				
Room : Maharat Hall				
Time	Presentation Code	Topic	Presenter	Section
08.30-08.55	MN-K-03	Excited State Intramolecular Proton Transfer (ESIPT) Dyes: Potential Solid-State Fluorophores for Electroluminescent Devices and Transparent Luminescent Solar Concentrators	Prof.Dr. Vinich Promarak	Oral 2 Chairman : Prof.Dr. Vinich Promarak Co-Chair : Asst.Prof. Dr. Pawin Iamprasertkun
08.55-09.15	MN-I-03	Strong Light-Matter Interactions in 2D Materials for Optoelectronic Devices	Assoc.Prof.Dr. Surendra B. Anantharaman	
09.15-09.30	MN-O-08	SERS nanowire endoscopy for monitoring intracellular drug dynamics	Asst.Prof. Farsai Taemaitree	
09.30-09.55	MN-CST Award-09	Sustainable Electrochemical Intelligence: Road to The Development of 2D Materials	Asst.Prof.Dr. Pawin Iamprasertkun	

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Room : G4				
Time	Presentation Code	Topic	Presenter	Section
08.30-08.50	MN-I-04	Material upcycling from spent single-use battery toward more sustainable rechargeable batteries	Assoc.Prof.Dr. Weekit Sirisaksoontorn	Oral 2 Chairman: Assoc.Prof.Dr. Weekit Sirisaksoontorn Co-Chair : Asst. Prof. Dr. Bussaba Pinchaipat
08.50-09.05	MN-O-10	Fabrication of Carbon Materials from Super Sorghum Juice for Use as Electrodes in Electrochemical Energy Storage Devices via the Hydrothermal Process	Mr. Satawat Thumwong	
09.05-09.20	MN-O-11	Enhancing supercapacitance through isomer-specific nitroaniline doping and heterophase engineering of TiO ₂ for high-performance supercapacitor	Ms. Patcharida Janpauk	

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09.20-09.35	MN-O-12	Preparation and characterization of bio-based carbon composite for energy storage	Ms. Kaewthip Ruengchay	
09.35-09.50	MN-O-13	Eco-friendly Synthesis and Optical Sensing Application of Carbon Dots from <i>Carthamus tinctorius</i> L. toward vanillin Detection	Mr. Tanapat wangsomboonsiri	
09.50-14.30	Coffee Break			
14.30-14.50	MN-I-05	Synchrotron X-ray characterizations for sustainable catalysis in alternative energy and biomass conversion	Dr. Suttipong Wannapaiboon	Oral 3 Chairman : Dr. Suttipong Wannapaiboon Co-Chair : Dr. Jutatip Namahoot
14.50-15.05	MN-O-14	Plasma-Assisted Synthesis of Nanostructured Zeolites: Enhanced Dissolution, and Crystallization	Dr. Kachaporn Saenluang	
15.05-15.20	MN-O-15	The development of a biosensor for the detection of vanillin utilizing carbon dots synthesized from <i>Humulus lupulus</i>	Mr. Natnaphat Chuain	
15.20-15.35	MN-O-16	Investigation of the influence of banana peel–derived activated carbon incorporation on the compressive strength and formaldehyde adsorption performance of mortar	Mr. Watcharaporn Charoensuk	

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Time	Presentation Code	Topic	Presenter	Section
14.30-14.50	MN-I-06	Development of processable metal-organic frameworks via solid-liquid phase transition for environmental applications	Asst. Prof. Dr. Kanokwan Kongpatpanich	Oral 3 Chairman : Asst. Prof. Dr. Kanokwan Kongpatpanich Co-Chair : Assoc. Prof. Dr. Ratanon Chotima
14.50-15.05	MN-O-17	Azo Coupling Enables Isomeric Anthraquinone Porous Organic Polymers with Enhanced Lithium-Ion Battery Performance	Mr. Sirakorn Wiratchan	
15.05-15.20	MN-O-18	Defect engineering of nickel titanate via sodium borohydride reduction and its application in asymmetric supercapacitor with crumpled graphene as anode	Ms. Nareekarn Meebua	
15.20-15.35	MN-O-19	Development and optical study of neodymium doped soda lime silicate glass for UV-Visible spectrophotometer calibration	Dr. Ekarat Meechoowas	

Poster Presentation I : 12 Feb 2026		
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MN-P-01	Amorphous Silicon Dioxide Nanoparticles Synthesized from Rice Husk and Their Effect on Hydrophobic Coating with Silicone Oil	Asst.Prof.Dr. Komkrich Chokprasombat
MN-P-02	Ionic liquid-modified halloysite nanotubes for catalytic conversion of CO ₂ and propylene oxide to propylene carbonate	Ms. Nabhasalak Rangthong
MN-P-03	Ionic Liquid Modified Halloysite; Effects of Substituent on Reusability for Catalytic Conversion of CO ₂ and Propylene Oxide to Propylene Carbonate	Ms. Pittakamol Petai
MN-P-04	Chemical modification of pineapple leaf fiber waste for enhanced adsorption of heavy metal ions from aqueous solution	Mr. Jaturavit Nimnuan
MN-P-05	Microwave-assisted acid hydrolysis for intensified and eco-efficient synthesis of cellulose nanocrystals	Mr. Chakkaphan Pho-ngernngam

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MN-P-06	Tailoring Surface Wettability Through CuO Microstructure Modification	Mr. Salika Jayathilaka
MN-P-08	Preparation of plant-based powders for latent fingerprint visualization via electrocoagulation	Dr. Nopparat Plucktaveesak
MN-P-09	Hydrothermal synthesis of sulfur-doped carbon dots from caffeine and their photocatalytic performance	Assoc.Prof.Dr. Cheewita Suwanchawalit
MN-P-10	Oxidation behavior at elevated temperature in high chromium cast iron	Assoc.Prof.Dr. Amporn Wiengmoon
MN-P-11	Rapid and simple microwave-assisted synthesis of Bi-rich Bi ₂₄ O ₃₁ Cl ₁₀ with enhanced visible-light-driven photocatalytic activity	Dr. Chuchai Sronsri
MN-P-12	Development of Thai Industrial Standard (TIS 3202)-compliant dry concrete products utilizing recycled concrete aggregate	Dr. Witsanu Sombat
MN-P-13	Microwave-assisted green synthesis of ZnO nanoparticles using roselle calyx extract: Surface properties and photocatalytic performance	Ms. Thanaporn Chueamuang
MN-P-14	SYNTHESIS AND APPLICATIONS OF SILICON QUANTUM DOTS FROM NATURAL SOURCES	Ms. Tanisa Saisod
MN-P-15	Corn Biochar Formulated to Interlocking Block in Relation to Physical, Mechanical and Insulation Properties	Mr. wutinai kokkamhaeng
MN-P-16	In Situ Growth of Graphitic Carbon Nitride on Interconnecting Porous Porcelain for Efficient Visible-Responsive Photocatalyst	Ms. Thamonwan Feuangfung
MN-P-17	High-activity tungsten-modified zeolite A from sugarcane bagasse ash as a catalyst for ethanol dehydration to ethylene	Ms. Darunee Sukchit
MN-P-18	Green Synthesis of Silver Nanoparticles Using Crude Extract from bunch of <i>Musa ABB</i> cv. <i>Kluai 'Namwa'</i> and their Antibacterial Activity	Ms. Khemitsara Sawatdee
MN-P-19	Adsorption of Cu(II) using biomass-zeolite composites and zeolite NaA and NaX	Ms. Sawitree Chaiburee
MN-P-20	Application of Faujasite-type zeolites from silica gel waste for the catalytic valorization of glycerol-to-glycerol carbonate: effect of cation types and crystal sizes	Mr. Thitinan Makchanthuek

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MN-P-21	Macroscopic Shaping of Coordination Polymer Glass-Metal Nanoparticle Hybrids for Catalysis Applications	Mr. Thanakorn Tiyawarakul
MN-P-22	Eutectic behavior and electroconductivity of coordination polymer blends	Ms. Karnjana Atthawilai
MN-P-23	Enhancing Chirality and g-Factor in Chiral Gold Nanoparticles Using Cu ²⁺ ions	Ms. Jesugbogo Enis
MN-P-24	Merging Art and Chemistry: UV-Induced Formation of Prussian Blue in Fe-Complex-Based Cyanotype Printing	Ms. Naon Wongsakul
MN-P-25	Role of Silica in Modulating the Crystal Size of g-C ₃ N ₄	Dr. Chumphol Busabok
MN-P-26	Adsorption and detoxification of organophosphorus pesticides (OPs) by Metal-organic framework	Ms. Kunlanat Sriphumrat
MN-P-27	Quantification and Mitigation of Low-Frequency Mechanical Vibrations for Enhanced Stability in Single-Molecule Localization Microscopy	Ms. Papichaya Pooldee
MN-P-28	Modular Synthesis of Porous Organic Polymers Containing Redox-Active Disulfide as Electrode Materials for High-Performance Lithium-Sulfur (Li-S) Batteries	Mr. Wittawat Punyarthansakun
MN-P-29	Preparation and characterization of peptide-conjugated liposomes as a drug delivery system targeting EGFR of cancer cells	Ms. Yanisa Panporm
MN-P-30	The effect of N-P Flame retardant Mixed PE Plastic waste on Flame Retardant and Mechanical properties for Construction products	Dr. Piyalak Ngerchuklin
MN-P-31	Scientific Techniques in Art Conservation: Condition Report on Brown Spotting (Foxing) in Tawan Wattuya's Watercolor-on-Paper Artworks	Ms. Kannika Sommakettarin
MN-P-32	Examination of the effect of infill pattern and infill density on mechanical and thermal properties of FDM 3D printing	Wg.Cdr. Naiyunard Nontapaph
MN-P-33	Electrochemical Determination Based on Magnetic Molecularly Imprinted Polymers for Food Allergen Detection	Assoc.Prof.Dr. Darinee Phromyothin
MN-P-34	Synthesis and properties of hydrogels from alginate and LCST-type temperature responsive polymers	Prof.Dr. Metha Rutnakornpituk

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MN-P-35	Well-defined mesoporous Pt-Ru nanostructures on graphene-based screen-printed electrodes: fabrication and characterization	Dr. Sapon Butcha
MN-P-36	Enhancing PLA Film Performance with CNC-Grafted Nanofillers for Sustainable Packaging Applications	Dr. Warunya Ussama
MN-P-37	pH-responsive multifunctional core-shell microspheres for controlled drug release	Ms. Minji Han
MN-P-38	Scalable interfacial design of layered CNT/MXene heterostructures for high-performance yarn supercapacitors	Prof.Dr. Peerasak Paoprasert
MN-P-39	Quality improvement of LiCoO ₂ recovered from lithium-ion battery component separation	Asst.Prof.Dr. Bussaba Pinchaipat
MN-P-40	Development of CuO electrodes via in-situ embedding of carbon dots for high-performance supercapacitors	Ms. Manatsanan Keawmala
MN-P-41	Rational design of a metal-free electrode based on porous graphene for energy storage applications	Mr. Phongpol Phothiyasanont
MN-P-42	Crucial Roles of CdS Surface Modification on Boosting Photoelectrochemical Activities of Vertically Aligned ZnO Nanostructures	Dr. Narathon Khemasiri
MN-P-43	Morphological Control of Hydrothermally Synthesized Zinc Oxide Nanorods for Highly Sensitive Nitrogen Dioxide Sensor	Mr. Khodchaphak Angkanawichith
MN-P-44	Crucial Role of Post-Annealing Treatment on Crystalline Transformation, Morphology and Photoelectrochemical Property of Fe ₂ O ₃ Nanorods	Dr. Thanakorn Khumtong
MN-P-45	Development of electrochemical measurement of salbutamol using molecular imprinted- polymer technique with nanocopper oxide	Ms. Teeranuch Khummung
MN-P-46	A photoelectrochemical sensing of salbutamol based on CuO/g-C ₃ N ₄ nanocomposites coupled with molecularly imprinted-polymers	Mr. Supakorn Puengvigrai
MN-P-47	Tannic Acid-Based Carbon Dots and Their Application in Metal Ion Sensing	Ms. Pakjeera Aiensaard
MN-P-48	Application of a novel Dibenzopleiadiene monoimide for enhanced visualization of faint latent fingerprints developed by cyanoacrylate fuming	Ms. Mathawee Yoodee

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MN-P-49	Fabrication of Electrodeposited Bismuth Oxyiodide Nanosheets Decorated with Gold Particles for Photoelectrochemical L-Ascorbic Detection	Mr. Jirasak Makdee
MN-P-50	3D printing of mycelium–hemp fiber composites for eco-friendly architectural materials	Duangtip Trimongkonkool
MN-P-51	3D printing of PEGDA/nano lignin composites hydrogels for advanced wound dressing applications	Thipphayapha Khammungkhun