

MN-Material Chemistry and Nanotechnology

Friday, 26 January 2024, Room: Nile 4

Chair: Vinich Promarak, Vidyasirimedhi Institute of Science and Technology

Co-Chair: Wisit Hirunpinyopas, Kasetsart University

Time	Code	Title	Presenter
13.00 – 13.30	MN-K-01	The role of organic photovoltaics in renewable energy to overcome climate change	Thuc-Quyen Nguyen
13.30 – 14.00	MN-I-01	Compositionally tunable stimuli-responsive nanoparticles having uniform sizes, shapes, and core-shell architectures	T. Randall Lee
14.00 – 14.15	MN-O-01	Asymmetric D-A-D' type hybridized local and charge transfer fluorophores as deep-red/near-infrared emitters for efficient non-doped OLEDs	Teerapat Itsoponpan
14.15 – 14.30	MN-O-02	Boosting OLEDs performance via hot exciton mechanism: The study of heteroatom and different the number of donor unit effects on D- π -A type emitters	Takdanai Unjarern
14.30 – 14.45	MN-O-03	Development of near-infrared phosphorescent organoiridium (III) complexes bearing 2-arylquinoxaline-based cyclometalated ligands	Ryuta Shikura
15.00 – 15.15	Coffee Break		
15.15 – 16.00	PL-02 at Bhiraj Halls II and III		



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Chair: Chaiya Prasittichai, Kasetsart University

Co-Chair: Vinich Promarak, Vidyasirimedhi Institute of Science and Technology

Time	Code	Title	Presenter
16.00 – 16.30	MN-I-02	Electrochemical applications of two dimensional (2D) materials for sustainable uses	Wisit Hirunpinyopas
16.30 – 16.45	MN-O-04	Facile synthesis of highly active and durable carbon composite as a non-precious metal oxygen reduction reaction electrocatalyst in alkaline media	Kittimaporn Nernprom
16.45 – 17.00	MN-O-05	Preparation and characterization of MoS ₂ /lignin-based carbon nano-composite fibers for supercapacitor electrodes	Kamonluk Sirikarint
17.00 – 17.15	MN-O-06	Solution plasma-assisted integration of MXene nanosheets with iron and nitrogen-doped carbons as electrocatalysts for oxygen reduction reaction	Kasidit Janbooranapinij
17.15 – 18.15	Poster Session I at Bhiraj Hall 1		
18.15 – 21.00	Conference Banquet at Bhiraj Halls II and III		

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Saturday, 27 January 2024, Room: Nile 4

Chair: Jeng-Yu Lin, Tunghai University

Co-Chair: Chaiya Prasittichai, Kasetsart University

Time	Code	Title	Presenter
09.45 – 10.15	MN-I-03	Crystallization of pharmaceutical compounds	Il Won Kim
10.15 – 10.30	MN-O-07	Parameter optimization for the synthesis of hybrid gold nanoparticle-carbon dot colloids and their luminescent properties alteration	Thammika Srisaman
10.30 – 10.45	MN-O-08	Development of colloidal cellulose nanocrystal suspensions as a sprayable PM2.5 remover	Benyapha Kheawmanee
10.45 – 11.00	<i>Coffee Break</i>		
11.00 – 12.00	<i>Poster Session II at Bhiraj Hall I</i>		
12.00 – 13.00	<i>Lunch at EH100</i>		
<p>Chair: Il-Won Kim, Soongsil University Co-Chair: Vinich Promarak, Vidyasirimedhi Institute of Science and Technology</p>			
13.00 – 13.30	MN-I-04	δ -MnO ₂ -based nanocomposite cathodes for aqueous Mg-ion electro-chemical energy storage devices	Jeng-Yu Lin
13.30 – 13.45	MN-O-09	Colorimetric sensing of polymers by using polydiacetylene/zinc(II)/zinc oxide nanocomposites: Effect of solvents and cationic surfactant	Sasiwan Boonmak
13.45 – 14.00	MN-O-10	Polydiacetylene-based materials for colorimetric sensing of fatty acids	Nannapat Kaewnukulkit
14.00 – 14.15	MN-O-11	Quercetin mediated Ag@Au core-shell nanoparticles: Synthesis, characterization and applications	Amtul Qayoom



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Time	Code	Title	Presenter
14.15 – 14.30	MN-O-12	Synthesis of gold nanoparticles supported on carbon nanomaterials via solution plasma sputtering as electrochemical sensors for mercury(II) ion detection	Jidapa Chantaramethakul
14.30 – 14.45	MN-O-13	Synthesis and characterization of nitrogen-doped carbon dots from bird's nest for heavy metal detection	Teeraphat Prachayanipon
14.45 – 15.00	MN-O-14	Voltammetry of paraquat-based bismuth nanoparticles screen-printed electrodes for environmental surveillance	Patima Phumsathan
15.00 – 15.15	<i>Coffee Break</i>		
15.15 – 15.30	MN-O-15	pH-Responsive polymer as a new stable solid electrolyte interphase for water-in-salt battery	Rossukon Jommongkol
15.30 – 15.45	MN-O-16	Preparation and characterization of silver nanowires/cellulose nanofibrils-based conductive paper	Noppamas Thongsiri
15.45 - 16.15	MN-I-07	Novel electronic materials using metal precursors and TADF host materials for high performance DRAM and OLED applications	Jongwook Park

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Saturday, 27 January 2024, Room: Nile 3

Chair: Joon-Wook Park, Kyung Hee University

Co-Chair: Kanokwan Kongpatpanich, Vidyasirimedhi Institute of Science and Technology

Time	Code	Title	Presenter
09.45 – 10.15	MN-I-05	Porphyrins for Energy Conversion	Chen-Yu Yeh
10.15 – 10.30	MN-O-17	Plasmon enhancement of photodetectors based on CsPbBr ₃ quantum dots	Zar Ni Thein Htay
10.30 – 10.45	MN-O-18	Influence of chemical surface-treatment agent on mechanical and neutron-shielding properties of recycled high-density polyethylene (r-HDPE)/gadolinium oxide (Gd ₂ O ₃) composites	Donruedee Toyen
10.45 – 11.00	Coffee Break		
11.00 – 12.00	Poster Session II at Bhiraj Hall I		
12.00 – 13.00	Lunch at EH100		
<p>Chair: Chen-Yu Yeh, National Chung Hsing University Co-Chair: Vinich Promarak, Vidyasirimedhi Institute of Science and Technology</p>			
13.00 – 13.30	MN-I-06	Development of metal-organic frame-works for energy and environmental applications	Kanokwan Kongpatpanich
13.30 – 14.00	CST-07	Highly enantioselective synthesis of chiral molecules at modified mesoporous metal electrodes	Sopon Butcha
14.00 – 14.15	MN-O-23	Synthesis of achiral fluorene derivatives exhibiting circularly polarized luminescence induced in chiral nematic liquid crystal medium	Yuki Fujita
14.15 – 14.30	MN-O-20	Bio-CaCO ₃ from <i>Perna viridis</i> shells for plant coating	Orakanya Kumphon
14.30 – 14.45	MN-O-21	Microstructural modification of nickel aluminium bronze against erosion corrosion	Methawat Keereerak-wattana
14.45 – 15.00	MN-O-22	Synthesis of RGB fluorescent helical network polymers in chiral liquid crystals and evaluation of their circularly polarized luminescence	Hiromasa Yamamoto
15.00 – 15.15	MN-O-19	Metal-organic chalcogenolates – An emerging family of low-dimensional hybrid semi-conductors	Watcharaphol Paritmongkol
15.15 – 15.30	Coffee Break		