

## EE-Environmental Chemistry and Renewable Energy

**Friday, 26 January 2024, Room: Silk 4**

**Chair:** Tosapol Maluangnont, KMITL

**Co-Chair:** Weekit Sirisaksoontorn, Kasetsart University

Time	Code	Title	Presenter
13.00 – 13.30	EE-K-01	Microplastics contamination in Chao Phraya estuary and Bang Pu mangrove forest in Thailand	Sandhya Babel
13.30 – 14.00	EE-I-01	Metal oxides nanosheets/cellulose composites for energy harvesting via triboelectricS	Tosapol Maluangnont
14.00 – 14.15	EE-O-01	Microplastics and plastic additives in open dumping site soil from Thailand	Shinnosuke Yamahara
14.15 – 14.30	EE-O-02	Preparation of porous biochar derived from avocado peel and its application on ciprofloxacin removal	Thi Tuong Vi Tran
14.30 – 14.45	EE-O-03	Minimize residual formaldehyde content in melamine-formaldehyde PCM microcapsules	Nichakorn Wangkajai
14.45 – 15.00	EE-O-04	Conversion of fat and oil contaminant waste produced by stationary wastewater treatment plant into calcium soap for ruminant feed	Aung Thae Oo
15.00 – 15.15	<b>Coffee Break</b>		
15.15 – 16.00	<b>PL-02 at Bhiraj Halls II and III</b>		



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**Chair:** Pawin Iamprasertkun, Thammasart University

**Co-Chair:** Weekit Sirisaksoontorn, Kasetsart University

Time	Code	Title	Presenter
16.00 – 16.30	EE-I-02	The rise of sustainable electrochemical intelligent of 2D materials	Pawin Iamprasertkun
16.30 – 16.45	EE-O-05	Exploring interphase instability in the LiTFSI-LiCl aqueous biphasic system through optical microscopy	Chalarat Chaemchamrat
16.45 – 17.00	EE-O-06	Nanostructured MoO <sub>2</sub> /MoS <sub>2</sub> /MoP heterojunction and N, S dual-doped reduced graphene oxide as high performance electrode for supercapacitors	Kasira Kaewplod
17.00 – 17.15	EE-O-07	The Fabrication of Ru <sub>2</sub> P nanoparticle decorated P-doped vegetable root-derived hierarchical porous carbon for supercapacitors with ultrahigh capacitance	Sudarat Laihang
17.15 – 18.15	<b>Poster Session I at Bhiraj Hall 1</b>		
18.15 – 21.00	<b>Conference Banquet at Bhiraj Halls II and III</b>		

## EE-Environmental Chemistry and Renewable Energy

**Saturday, 27 January 2024, Room: Silk 4**

**Chair:** Weekit Sirisaksoontorn, Kasetsart University

Time	Code	Title	Presenter
09.45 – 10.15	EE-K-02	Holistic valorization of residual biomass	Joseph S. M. Samec
10.15 – 10.30	EE-O-08	Unveiling the potential of oxidative catalytic fractionation in spruce bark valorization	Suthawan Muangmeesri
10.30 – 10.45	EE-O-09	Conversion of food waste to a valuable soil resource in a day	Apichat Junsod
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>		
13.00 – 13.30	EE-I-03	Surface chemistry in atomic layer deposition and selective deposition	IL-Kwon Oh
13.30 – 14.00	EE-I-04	Occupational health risk of workers exposed to hazardous air pollutants: case study in Thai Industries	Wanida Jinsart
14.00 – 14.15	EE-O-10	Comparative study of torrefaction and pyrolysis behavior on rice straw using Thermogravimetry-Mass Spectrometry (TG-MS) technique	Chakrya Theap
14.15 – 14.30	EE-O-11	Copper calcium hydroxide nitrate derived from chicken eggshell and their catalytic activity in the removal of aqueous methyl orange	Yiping Han
14.30 – 14.45	EE-O-12	Photocatalytic degradation of organic dye and antibiotic by ZnO-based photocatalyst under natural solar light	Suwat Nanan
14.45 – 15.00	EE-O-13	Performance evaluation of Phase Change Materials (PCMs) to improve energy saving potential of building	Kanyamon Ausaman
15.00 - 15.15	EE-O-17	Efficient wastewater dye degradation using $\text{Fe}_3\text{O}_4\text{-CuS@SiO}_2$ photocatalyst: Mechanism and performance	Fatemeh Sadegh
15.15 – 15.30	<i>Coffee Break</i>		



## EE-Environmental Chemistry and Renewable Energy

*Saturday, 27 January 2024, Room: Amber 3*

**Chair:** Weekit Sirisaksoontorn, Kasetsart University

Time	Code	Title	Presenter
13.00 – 13.30	CST-05	Pioneering sustainable futures: From enzyme-driven biocatalysis to revolutionary waste management in Thailand	Thanyaporn Wongnate
13.30 – 14.00	CST-08	Tuning surface energy to enhance MoS <sub>2</sub> nanosheet production via liquid-phase exfoliation: understanding the electrochemical adsorption of cesium chloride	Panwad Chavalekvirat
14.00 – 14.15	EE-O-14	One-dimensional simulation of an alkaline-acid direct glycerol fuel cell	Papitchaya Chaloeypanit
14.15 – 14.30	EE-O-15	Simulation of hydrogen production from water-hyacinth with equilibrium reactors	Sirikul Boonterm
14.30 – 14.45	EE-O-16	Unveiling novel mechanisms in energy storage materials with mimic battery technique	Kulika Pithaksinsakul