

CC-Catalytic Chemistry

Friday, 26 January 2024, Room: Silk 3

Chairs: 1) Paisan Kongkachuchay, Kasetsart University

2) Khanin Nueangnoraj, Sirindhorn International Institute of Technology

Co-Chair: Metta Chareonpanich, Kasetsart University

Time	Code	Title	Presenter
13.00 – 13.30	CC-K-01	From averaging over an entire catalyst to single particle catalysis: black box vs. atomic views	Günther Rupprechter
13.30 – 14.00	CC-K-02	Catalytic chemistry using carbon-based materials	Hiroto Nishihara
14.00 – 14.30	CC-I-01	Advanced catalytic upgrading of bioethanol to chemicals and carbon materials	Chularat Wattanakit
14.30 – 14.45	CC-O-01	Uncovering insights in data-driven catalyst design: A case study in oxidative coupling of methane	Shun Nishimura
14.45 – 15.00	CC-O-02	Ethanol steam reforming using Ni catalyst supported on ZrO ₂ -doped Al ₂ O ₃ with magnetic inducement	Marucheth Thongthepairoj
15.00 – 15.15	<i>Coffee Break</i>		
15.15 – 16.00	<i>PL-02 at Bhiraj Halls II and III</i>		



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Chair: Chularat Wattanakit, Vidyasirimedhi Institute of Science and Technology

Co-Chair: Patraporn Luksirikul, Kasetsart University

Time	Code	Title	Presenter
16.00 – 16.30	CC-I-02	Selective conversion of xylose to lactic acid over Al-based catalysts: A comprehensive comparison between laboratory-scale and pilot-scale	Pongtanawat Khemthong
16.30 – 16.45	CC-O-03	Computational modeling of carbon monoxide oxidation on platinum supported on cerium dioxide	Georgi N. Vayssilov
16.45 – 17.00	CC-O-04	Chiral-induced spin selectivity effect at chiral-encoded Pt-Ir surfaces for enhanced Oxygen Reduction Reaction	Zikkawas Pasom
17.00 – 17.15	CC-O-05	I-doped Bi ₂ MoO ₆ nanosheets for enhanced pollutant photodegradation and hydrogen evolution	Theeranun Siritanon
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: Silk 3

Chair: Piboon Pantu, Kasetsart University

Co-Chair: Patraporn Luksirikul, Kasetsart University

Time	Code	Title	Presenter
09.45 – 10.15	CC-K-03	Induced catalytic active sites by substrate over nano-structures	Edman Tsang
10.15 – 10.30	CC-O-06	Role of incorporated metal/phosphorus acidity modification over low Si/Al ratio HZSM-5 catalysts in methanol-to-olefins process	Chotika Yoocham
10.30 – 10.45	CC-O-07	Effect of manganese and magnesium promoter on catalytic hydrogenation of CO ₂ over cobalt-based catalyst	Saowaluk Intarasiri
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>Chairs: Metta Chareonpanich, Kasetsart University Co-Chair: Thongthai Witoon, Kasetsart University Chair: Thongthai Witoon, Kasetsart University Co-Chair: Waleeporn Donphai, Kasetsart University</p>			
13.00 – 13.30	CC-I-03	Syngas conversion to light olefins: Influence of SiO ₂ , Al ₂ O ₃ , and TiO ₂ supports using Fe-Co-K catalysts	Thongthai Witoon
13.30 – 13.45	CC-O-08	Production of sustainable aviation fuel and green diesel from biodiesel via metathesis-deoxygenation over tungsten oxide based catalysts	Mochamad Solehudin
13.45 – 14.00	CC-O-09	Sol-gel preparation of copper cobaltite spinel for ciprofloxacin degradation via peroxymonosulfate activation	Hieu Trung Dinh
14.00 – 14.15	CC-O-10	Cd _{0.5} Zn _{0.5} S/Bi ₂ MoO ₆ heterostructure for rhodamine B photodegradation under visible light	Thitipong Choklap