Date : 12 Feb 2026				
Session : Catalytic Chemistry				
Room : G11				
Time	**Presentation Code**	**Topic**	**Presenter**	**Section**
14.30-14.55	CC-K-01	Zeolite Catalysis for a Sustainable Chemical Industry	Professor Dr. Emiel Hensen	**Oral 1A** **Chairman :** Assoc. Prof. Dr. Chularat Wattanakit **Co-Chair :** Asst. Prof. Dr. Jenny Rizkiana
14.55-15.15	CC-I-01	Size and surface design of titania and BiOX nanoparticles	Professor Dr. Makoto Ogawa	
15.15-15.30	CC-O-01	Glucose Isomerization over H-Faujasite Zeolite: A Combined Experimental and Theoretical Study	Ms. Tharinee tiabkhunthod	
15.30-15.45	CC-O-02	Effect of chemical and physical modification of H-Beta zeolite on catalytic performance for 5-Hydroxymethylfurfural production from molasses compounds	Ms. Watsamon Chuphueak	
15.45-16.00	CC-O-03	Enhanced Photocatalysis by Visible-Light-Active $SrTiO_3$/BiOBr Composites	Ms. Punyanuch Thammaacheep	
16.00-16.10	**Coffee Break**			
16.10-16.35	CC-CST Award-05	Designing Effective Electrodes for Electrochemical CO_2 Reduction to Chemicals	Dr.Pongkarn Chakthranont	**Oral 1B** **Chairman :** Professor Dr. Emiel Hensen **Co-Chair :** Professor Dr. Yu-Hsu Chang
16.35-16.50	CC-O-04	Hydrogenation of waste cooking oil using ethanol as hydrogen donor catalyzed by cobalt molybdenum supported on gamma alumina catalyst	Ms. Gunniga Phoonsawas	
16.50-17.05	CC-O-05	Preparation of functionalized nanocellulose via acid hydrolysis for catalytic combustion applications	Ms. Tanapornpan Komase	
17.05-17.20	CC-O-06	Tween 80-Assisted Synthesis of CdS/Bi_2MoO_6 Nanocomposites for Catalytic Ozonation of Cyclophosphamide	Mr. Shutai OU	
17.20-17.35	CC-O-07	Development of cost-effective NiMo/MgO catalyst from acid-pretreated MgO for simultaneous production of CNTs and syngas from biogas	Ms. Napassorn Sukwanichwichai	

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08.30-08.55	CC-KN-02	Mechanistic insights into oxygen evolution and nitrate reduction reactions using in-situ NAP-XPS and operando Raman spectroscopy	Professor Dr. Yu-Hsu Chang	**Oral 2** **Chairman :** Professor Dr. Alexander Kuhn **Co-Chair :** Professor Dr. Tawan Sooknoi
08.55-09.20	CC-KN-03	Challenges and opportunities in the production of ethylene glycol from lignocellulosic biomass via hydrogenolysis over W and Ni catalyst	Professor Dr. María Pilar Ruiz Ramiro	
09.20-09.40	CC-I-02	Catalyst development and mechanistic insights for glycerol hydrogenolysis to propanediols: A perspective from indonesia's renewable feedstock	Asst. Prof. Dr. Jenny Rizkiana	
09.40-09.55	CC-O-08	Hydroxylamine Intermediate Governs Selectivity in Nitrite Hydrogenation on Pd-based Catalysts for Sustainable Water Treatment	Mr. Janek Betting	
09.55-10.10	CC-O-09	Reversible Cu^{+}/Cu–H active sites in $CuMgAlO_x$ catalysts derived from layered double hydroxides as active sites for selective hydrogenation of fatty acid methyl esters	Assoc.Prof.Dr. Kittisak Choojun	
10.10-10.25	CC-O-10	Hydrogenation Of Glucose to Sorbitol Using Nickel Boride on Zeolite Support Catalysts	Mr. Moh Nadhif Mauluddin	
10.25-14.20	**Coffee Break**			
14.20-14.40	CC-I-03	Multifunctional semiconductor Janus micro- and nanoparticles with enhanced photocatalytic efficiency for green hydrogen production and depollution	Professor Dr. Alexander Kuhn	**Oral 3** **Chairman :** Professor Dr. Makoto Ogawa **Co-Chair :** Professor Dr. María Pilar Ruiz Ramiro
14.40-15.00	CC-I-04	Asymmetric Synthesis of Chiral Compounds from CO_2 at Chiral Encoded Metal Surfaces	Assoc. Prof. Dr. Chularat Wattanakit	
15.00-15.15	CC-O-12	A synthesis of biomass-modified titanium dioxide for enhanced CO_2 photoreduction	Mr. Apinon Piboonsathaporn	

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15.15-15.30	CC-O-13	Lead-Free Perovskite Photocatalysts and Photoelectrocatalysts Discovered via Mechanochemical and Machine-Learning-Assisted Design	Dr. Adisak Thanetchaiyakup	
15.30-15.45	CC-O-14	Enhanced CO_2 Conversion to C_{5+} hydrocarbons Over Metal Oxides Derived from Layered Double Hydroxides	Ms. Narasiri Maineawklang	

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Presentation Code	**Topic**	**Presenter**
CC-P-03	Praseodymium (Pr) single atom modified graphitic carbon nitride (g-C_3N_4) photocatalyst: optimizing charge separation for efficient CO_2 reduction and organic pollutant degradation	Ms. Nisita Samart
CC-P-04	Enhanced visible-light photocatalytic performance of K-modified g-C_3N_4 for solar-driven RhB degradation and CO_2 reduction	Mr. Phuminan Chaloemsawatwong
CC-P-05	Atomically dispersed Cu on g-C_3N_4 nanosheets via metal vapor exfoliation for CO_2 photoreduction under simulated solar light	Dr. Tammanoon Chankhanittha
CC-P-06	Enhanced Methanol Oxidation Performance of Pt Catalysts Supported on Polyaniline-Modified Graphene Oxide for Direct Methanol Fuel Cells	Ms. Satita Sudrungruang
CC-P-07	Bimetallic Electrocatalysts for the Electrochemical Oxidation of 5-Hydroxymethylfurfural (HMF) to 2,5-Furandicarboxylic Acid (FDCA)	Ms. Kamolpun Wantasunthorn
CC-P-08	Metal-organic framework-based photocatalysts for oxidative desulfurization in model fuel	Ms. Pitchapha Semangoen
CC-P-09	Tunable C_4–C_6 hydrocarbon formation via acetylene–ethylene cross-metathesis over mesoporous WO_3/MCM-41 catalyst	Mr. Kong Wongduang

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CC-P-10	Cross Coupling Reactions with Pd@UiO-66-SO_3H Metal Organic Framework: A Combined Experimental and Theoretical Study	Ms. Phakthira Suwadit
CC-P-11	Sustainable Non-Oxidative Dehydrogenation of Bioethanol to Acetaldehyde over Silanol-Rich Cu-MOR Nanocatalysts	Ms. Chomphunuch Wansa
CC-P-12	Density Functional Theory Study of CO Adsorption on Pt and High-Entropy Alloy Catalysts during Carbon Monoxide Oxidation	Ms. Wannisa Chomwilai
CC-P-13	Aza-BODIPY–Modified Carbon Supports for Electrodeposited Pt Catalysts in Alcohol Oxidation	Ms. Natnicha Ingongngam
CC-P-14	Chemical Modification of CNTs Enables High-Performance noble metal Electrocatalysts for Alcohol Oxidation	Ms. Siripon Wattanasing
CC-P-15	Pt/Polypyrrole-Modified Carbon Electrocatalysts for Efficient Alcohol Oxidation in Direct Alcohol Fuel Cells	Ms. Parisa Klanarong
CC-P-16	Preparation of Ru@NiFe-Layered Double Hydroxide for Efficient Hydrogen Evolution Reaction	Ms. Phakchira Nakhun
CC-P-17	Hydrodefluorination of Aryl Fluorides Using Bimetallic PdPt Nanoparticles Supported on Lanthanum Oxyfluorosilicate	Ms. Sutthita Baipokthong
CC-P-18	Synthesis of cyclic carbonates from carbon dioxide using reusable aluminum(sulfonato salen) as catalyst	Mr. Manussapon Chitmanus
CC-P-19	Carbon Quantum Dot-Modified Ni-Based Dual-Functional Catalysts for Integrated CO_2 Capture and Hydrogenation to Methane	Ms. Pim-on Bantaotuk
CC-P-20	Enhanced Electrocatalytic Glycerol Oxidation on Graphene-Modified Ni/Cu Electrodes	Ms. Natthaya Nahlong
CC-P-21	Role of carbon quantum dots in boosting CO_2-to-CH_4 hydrogenation performance of Ni–Silica-spherical catalysts	Ms. Yanisa Sumranjit
CC-P-22	Promotional Effect of Zirconium Doping in CeO_2 Shell of $LaNiO_3$–Based Core–Shell Perovskite Catalyst for Dry Reforming of Mathane	Ms. Nattanit Atthpradit

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CC-P-23	Degradation of Methylene Blue with Cu(II)-Quinoline Complex Immobilized on Silica Support as a Photo-Fenton-like Catalyst	Assoc.Prof.Dr. Ratanon Chotima
CC-P-24	Theoretical investigation on the role of external oxygen facilitating oxidative dehydrogenation of hydrogen sulfide on Fe-based oxide catalysts	Dr. Tinnakorn Saelee
CC-P-25	Interfacial Redox Coupling in Ag/CeO_2 Nanocubes for Efficient Aqueous Oxidation of 5-HMF to FDCA	Ms. Ladda Muangsri
CC-P-26	TEA-Assisted CO_2 Capture and Photocatalytic Methanol Synthesis Using Cu/ZnO–CeO_2 Hexagonal Nanoplates	Assoc.Prof.Dr. karaked Tedsree
CC-P-27	Photodegradation of methylene blue using SnS_2/MCM-41 and SnS_2/MCM-48 compared to TiO_2-P25	Ms. Saruta Mueangkhun
CC-P-28	Structure-Activity Relationship of Ammonia Activated Nickel Catalyst Supported in SiO_2-CaO from Sludge Waste for Dry Reforming of Methane	Mr. Hti Moo