



International Symposium of Young Scholars on Carbon Resources Conversion (YSCRC-2021)

October 14th-16th, 2021



Date	Time	Code	Program	Presenter
14 October 2021	13.00-13.05		Welcome address YSCRC2021	Prof. Siritwan Seubnukarn, Vice Rector, Thammasat University
	13.05-13.10		Opening remarks	Prof. Guangwen Xu President of Shenyang University of Chemical Technology and Editor in Chief of Carbon Resources Conversion (CRC)
	13.10-13.15		Introduction VDO of Thammasat University	
	13.15-13.45	PL1	Waste-derived fuel co-firing with coal — practical issues and solutions	Prof. Dingrong Bai Shenyang University of Chemical Technology,
Session 1			Associate Professor Suwadee Kaongparkul, Thammasat University (Chairman) Dr. Thi Tuong Vi Tran, Nguyen Tat Thanh University (Co-Chairman)	
	13.45-14.05	IN1	Valorization of Biomass-Derived Oxygenates via C-C Bond Cleavage Using Cerium Oxide-Supported Metal Catalysts	Prof. Tommo Mizugaki Osaka University
	14.10-14.20	O02	In-situ Catalytic Upgrading of Bio-oil Derived from Pyrolysis of Biomass over Hollow H-ZSM-5 Zeolites	Nichaboon Chaihad Hirosaki University



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14.20-14.30	O05	Selective Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid using Bimetallic Co/Cu Catalyst	Tan Khanh Trinh Le Thammasat University
14.30-14.40	O06	Preparation series of Ni ₂ P@N-doping activated carbon catalyst: Effect of N-doping for hydrodeoxygenation of palm kernel shell	Le Kim Hoang Pham Thammasat University
14.40-14.50	O08	Effect Of Ytterbium Addition on the Catalytic Performance of Ni/Al ₂ O ₃ Catalyst Prepared by Solution Combustion for Methanation of Carbon dioxide	Luqman Abdullahi Sani Shenyang University of Chemical Technology
14.50-15.00	O09	Effect of Combustion Temperature Point in the Solution Combustion Synthesis of Ni/Al ₂ O ₃ Catalyst for CO ₂ Methanation	Luqman Abdullahi Sani Shenyang University of Chemical Technology
15.00-15.30		Refreshment	
Session 2		Associate Professor Chanatip Samart, Thammasat University (Chairman) Dr. Suchada Sirisomboonchai, Nagoya University (Co-Chairman)	
15.30-15.50	IN2	Development of small-scale biomass gasification systems	Prof. Guoqing Guan Hirosaki University



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15.55-16.15	IN3	Natural rubber as a renewable carbon source for functional mesoporous silica nanocomposites	Prof. Chawalit Ngamcharassrivichai Chulalongkorn University
16.20-16.30	O01	Co-gasification of Japanese Cedarwood and its Commercial Biochar for Hydrogen-rich Gas Production via Steam Gasification Process	Aisikaer Anniwaer Hirosaki University
16.30-16.40	O03	Hybrid Coal Production from Low-Rank Coal and Mahogany Sawdust using Semi-Double Chamber Reactor	Aghietyas Choirun Az Zahra Hirosaki University
16.40-16.50	O04	Design simulation and energy optimization of coal-based polygeneration carbon cycle system	HOU Qiwang Taiyuan University of Technology
16.50-17.00	O13	Study on Sintering Characteristics of Microcrystalline Magnesite Particles in Fluidized Beds	Liangliang Fu Shenyang University of Chemical Technology
17.00-17.10	O15	Low-tar Gasification of Biomass using Oxygen-steam in a Two-stage Fluidized Gasifier	Chao Wang Shenyang University of Chemical Technology



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	17.10-17.20	O16	Fluidized Bed Calcination of Limestone and its Chemical and Morphological Changes	Bowei YAN Shenyang University of Chemical Technology
	17.30-18.30	CO1	Committee meeting and CRC editorial board meeting	Prof. Guangwen Xu and Assoc. Prof. Chantip Samart
15 October 2021	13.00-13.30	PL2	Benign by design strategies for a more sustainable future: the valorisation concept	Prof. Rafael Luque Universidad de Cordoba and Editor in Chief of Molecular Catalysis
Session 3		Associate Professor Prasert Reubroycharoen, Chulalongkorn University (Chairman) Associate Professor Suwadee Kongparakul, Rangsit University (Co-Chairman)		
	13.35-13.45	O07	Electrochemical Water Electrolysis using Mxene-Cu ₂ O/Sulfonated polyether ether ketone as the Hybrid Composite Proton Exchange Membrane for H ₂ Gas production	Preeti Waribam Thammasat University
	13.45-13.55	O27	High Performance Flexible Electrochromic Devices Based on Metal doped Tungsten oxides	Wenli Li IPE,CAS
	13.55-14.05	O31	A novel photo-assisted electrochemically switched ion exchange technology for selective recovery of bromide ions	Jie Wang Taiyuan University of Technology



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14.05-14.15	O37	A novel NiFe-LDH/rGO electrically switched ion exchange film selective separation and recovery of phosphorus	Jiangwei Zhu Taiyuan University of Technology
14.15-14.25	O38	An electrochemically induced dual-site adsorption composite film of Ni-MOF derivative/NiCo LDH for selective bromide-ion extraction	Mengfang Jiang Taiyuan University of Technology
14.25-14.35	O39	A conductive chlorine ion-imprinted polymer threaded in metal-organic frameworks for electrochemically selective separation of chloride ions	Wenbiao Ma Taiyuan University of Technology
14.35-14.45	O11	Development of cation exchange membrane based on sulfonated nanocrystalline cellulose and SPEEK	Kanticha Jaiyen Thammasat University
14.45-15.15		Refreshment	
Session 4 Associate Professor Chaiyan Chaiya, Rajamagala University of Technology Thanyaburi (Chairman) Associate Professor Chanatip Samart, Thammasat University (Co-chairman)			
15.15-15.35	IN4	Switching the selectivity of CO₂ hydrogenation over supported Rh catalysts	Prof. Tetsuya Shishido Tokyo Metropolitan University



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15.40-15.50	O12	Framework-structured Phosphates with d-Metals As Catalysts for the Ethanol Conversion	Diana Osaulenko Friendship University of Russia
15.50-16.00	O14	Catalyst Ni-Mo/Al ₂ O ₃ Calcined with Infrared Heating for Hydrodesulfurization of Shale Oil	Mengjuan Zhang Shenyang University of Chemical Technology
16.00-16.10	O43	Catalytic oxidative dehydrogenation of oleic acid to long-chain bio-olefins over Vanadium-Magnesium Oxides/KIT-6 Catalysts	Duy Le Chulalongkorn University
16.10-16.20	O24	Effect Of Ytterbium Addition on the Catalytic Performance of Ni/Al ₂ O ₃ Catalyst Prepared by Solution Combustion for Methanation of Carbon dioxide	Luqman Abdullahi Sani Shenyang University of Chemical Technology
16.20-16.30	O25	Development of Ni based catalyst for oligomerization for ethylene to jet fuel	Pattreeya Panpian Thammasat University
16.30-16.40	O26	Highly Selective Hydrogenation of Furfural to Furfuryl alcohol Calcium-Modified Cu /SiO ₂ Catalysts	Debao Li Shenyang University of Chemical Technology
16.40-17.00		Refreshment	



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**Session 5 Assistant Professor Surachai Kanjanakom, Rangsit University (Chairman)
Associate Professor Chanatip Samart, Thammasat University (Co-chairman)**

17.00-17.10	O18	Evaluation of Metallic Magnesium Production from Low-rank Magnesite	Xiaorui Huang Shenyang University of Chemical Technology
17.10-17.20	O19	Optimization of Energy Efficiency for Flash Calcination of Magnesite in a Transport Bed	Ping An Shenyang University of Chemical Technology
17.20-17.30	O22	Calcination of Small-size Magnesite in a Fixed Bed with Internals for Co-production of High-Activity MgO and High-Concentration CO ₂	Zifu Xu Shenyang University of Chemical Technology
17.30-17.40	O28	Effect of Temperature and Atmosphere on Ash Sintering Characteristics of Furfural Residue with High K and S	Xiaorong Wang China University of Mining and Technology
17.40-17.50	O29	Preparation of silver nanowires decorated recycled cigarette filters-based composites with highly efficient electromagnetic interference shielding	Tran Thi Tuong Vi Nguyen Tat Thanh University
17.50-18.00	O32	A scalable three-dimensional porous λ -MnO ₂ /rGO/Ca-alginate composite	Zheng Zhang



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electroactive film with potential-
responsive ion-pumping effect for
selective recovery of lithium ions

Taiyuan University of Technology

**16 October
2021**

**Session 6 Assistant Professor Surachai Kanjanakom, Rangsit University (Chairman)
Associate Professor Chanatip Samart, Thammasat University (Co-chairman)**

13.00-13.20

IN5

**Efficiently converting syngas to
liquid fuels with reduced CO₂
emission**

Prof. Mingyue Ding

Wuhan University

13.25-13.35

O30

Propylene Epoxidation with H₂ and O₂
over Au/ZrO₂

Yuhua Zheng

IPE, CAS

13.35-13.45

O34

Deoxygenation of palm oil to light
biofuel over calcium-based catalyst
derived from gypsum waste under
atmospheric pressure

Wasipim Chansiriwat

Khon Kaen University

13.45-13.55

O42

Preparation of epoxidized palm oil:
An application as a rubber processing
oil

Thanyarat Pakaew

Thammasat University

13.55-14.05

O20

Facile production of bio-fuel additive
ethyl levulinate from conversion of
furfuryl alcohol promoted by acid
catalyst with oxygen environment

Surachai Karnjanakom

Rangsit University



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14.05-14.15	O10	Modification of the superhydrophobic on the cellulose paper surface for oil/water separation	Preyaphan Kheaw-in Thammasat University
14.15-14.25	O36	Pervaporation removal of pyridine from saline pyridine/water effluent using PEBA-2533 membrane: Experimental and simulation	Qian Xu Taiyuan University of Technology
14.25-14.35	O40	Three-dimensional Zeolitic Imidazolate Framework-8 derived nitrogen-doped carbon for electrochemically selective separation of chloride ions	Jie Qiao Taiyuan University of Technology
14.35-15.05		Refreshment	
Session 7 Associate Professor Prasert Reubroycharoen, Chulalongkorn University(Chairman) Associate Professor Surachai Kanjanakom, Rangsit University (Co-chairman)			
15.05-15.25	IN6	A new concept for the low energy CO ₂ capture with LNG cold	Koyo Norinaga Nagoya University
15.30-15.40	O17	Major Technologies and Their Applications for Oil Shale Retorting in the World	Yulin Yan The University of Science and Technology Liaoning



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15.40-15.50	O21	Characteristics and Kinetics of Thermal Decomposition of Siderite in Micro Fluidized Bed Reaction Analyzer	Hong Zhang Shenyang University of Chemical Technology
15.50-16.00	O23	Comparison of Tar Catalytic Reforming by Ash-less Char and CaO-char in a Micro Fluidized Bed Reaction Analyser	Dandan Hu IPE, CAS
16.00-16.10	O33	Conversion of paper sludge to coal-like via hydrothermal carbonization: Effect of process conditions on physical and chemical properties	Piyanut Phuthongkhao Khon Kaen University
16.10-16.20	O35	Simulation of coal pyrolysis process in riser reactor via structure-based mass transfer model combined with the discrete distributed activation energy model	Pan Xueer Taiyuan University of Technology
16.20-16.30	O41	Conversion of Sewage Sludge from Industrial Wastewater Treatment to Solid Fuel through Hydrothermal Carbonization Process	Siridet Paiboonudomkarn Khon Kaen University
16.45-17.00		Announcement of Best presentation awards, Host of YSCRC 2022 and Closing ceremony	