

Program

7th International Conference on Green and Sustainable Chemistry 4th JACI/GSC Symposium

Hitotsubashi-HALL (Takehashi, Tokyo)

July 5 (Sun)

Conf. Room 101-103

16:00 Interaction with Students

18:00 Networking & Drinks

July 6 (Mon)

Hitotsubashi Hall

10:00 Opening Remarks

Affiliation : President of JACI

Name : Mr. Takahashi

Special Speech

Affiliation : Chairman of KEIDANREN (Federation of Economic Organization)

Name : Mr. Sakakibara

Plenary Lecture-1

Toward "Positive" Green Sustainable Chemistry

Affiliation : 1:The Univ. of Tokyo/

Name : 1:Makoto Misono/

Invited Lecture-1

Affiliation : The University of Tokyo

Name : Prof. K. Hashimoto

13:10 Plenary Lecture-2

Affiliation : SusChem/Cefic

Name : Dr. G. Klotz

Plenary Lecture-3

Affiliation : ACS GCI

Name : Dr. D. Constable

Invited Lecture-2

Affiliation : BASF

Name : Dr. Carsten Sieden

Invited Lecture-3

Affiliation : The Dow Chemical Company

Name : Dr. Yao Weiguang

Invited Lecture-4

Sustainable Chemical and Materials Technologies in the KAITEKI Company

Affiliation : 1:Mitsubishi Chemical Holdings Corporation/

Name : 1:Glenn H. Fredrickson/

Invited Lecture-5

Integration and Valorisation of Multi-Step Chemical Catalytic and Biocatalytic Approaches for the Manufacture of Chemicals, Pharmaceuticals and Food Ingredients.

Affiliation : 1:Monash University/

Name : 1:Milton Hearn/

17:30 Panel Discussion

Toward New Developments in GSC

Affiliation : Kyoto University

Moderator Prof. Mae

July 7 (Tue)

Hitotsubashi Hall

9:15	Keynote-1	Green Polymers from Photo-responsive Dynamic Polymers to Lignin Based Polymers Affiliation : 1:School of Chemistry, Monash University/ Name : 1:Kei Saito/
	Keynote-2	High performance materials from polysaccharide ester derivatives Affiliation : 1:The University of Tokyo/2:CREST/3:RIKEN/SPring-8/ Name : 1:Tadahisa Iwata/
	Keynote-3	Properties of green solvents and their application in green chemistry Affiliation : 1:Institute of Chemistry, Chinese Academy of Sciences/ Name : 1:Buxing Han/
	Keynote-4	Graphene: A self-assembly of very likeable nanomaterial in the 21st century for catalytic applications Affiliation : 1:National Tsing Hua Univ./ Name : 1:Yong-Chien Ling/1:Bhaskar Garg/
	Keynote-5	Ionic liquid-based organic-inorganic composite materials as efficient green homogeneous/heterogeneous catalysts for conversion of biomass Affiliation : 1:Inst. of Atomic & Molecular Sciences, Academia Sinica, Taiwan/2:Zhejiang Gongshang Univ., China/3:Chinese Petroleum Corp. (CPC), Taiwan/ Name : 1:Shang-Bin Liu/2:Xiaoxiang Han/3:Ming-Yu Huang/1:Chin-Te Hung/3:Jung-Chung Wu/
13:00	Keynote-6	Electrohydrogenation of toluene by a SPE electrolyzer in organic hydride energy carrier systems Affiliation : 1:Yokohama National Univ./ Name : 1:Shigenori Mitsushima/1:Yasutomo Takakuwa/1:Yuki Sawaguchi/1:Yuji Kohno/1:Koichi Matsuzawa/
	Keynote-7	Solvate ionic liquids for advanced lithium batteries Affiliation : 1:Yokohama National University/ Name : 1:Masayoshi Watanabe/
	Keynote-8	Building a Greener and More Sustainable Chemical Industry in Affiliation : 1:Institute of Chemical and Engineering Sciences/ Name : 1:Keith Carpenter/
	Keynote-9	Suitable or Green or Sustainable Chemistry? Affiliation : 1:City University of Hong Kong/ Name : 1:Istvan T. Horvath/
	Keynote-10	Development of New Catalytic Reactions toward Utilization of Renewable Resources Affiliation : 1:The Univ. of Tokyo/ Name : 1:Shuhei Kusumoto/1:Kyoko Nozaki/

Conf. Room 101-102

Organic Synthesis Session

9:15	General Presentations-1	Integrated flow platforms for dynamic control and discovery of nanomaterials and self-optimization of organic reactions Affiliation : 1:University of Nottingham/2:University of Glasgow/ Name : 1:Victor Sans/2:Lee Cronin/
	General Presentations-2	Precise synthesis of fine polyolefins by introduction of reactive functionalities in ethylene copolymerization SI-1 Affiliation : 1:Tokyo Metropolitan Univ/ Name : 1:Wannida Apisuk/1:Kotohiro Nomura/
	General Presentations-3	Development of Efficient Ni(II) Catalyst Systems for Olefin Hydrosilylation Reaction SI-2 Affiliation : 1:National Institute of Advanced Industrial Science and Technology (AIST)-Tsukuba/

	Name : 1:Venu Srinivas/1:Yumiko Nakajima/1:Kazuhiko Sato/1:Wataru Ando/1:Shigeru Shimada/
Keynote-11	Efficient Ligand Platforms for Asymmetric Catalysis Affiliation : 1:Institute of Chemical Research of Catalonia (ICIQ)/2:Catalan Institution for Research and Advanced Studies (ICREA)/ Name : 1:Anton Vidal-Ferran/1:Hector Fernandez-Perez/1:Monica Vaquero/1:Joan Lao/1:Balakrishna Bugga/
General Presentations-4	Efficient Chiral Amplification System for Asymmetric Catalysis Based on Majority-Rule-Type Helical Poly(quinoxaline-2,3-diyl)s SI-3 Affiliation : 1:Grad. Sch. of Eng., Kyoto. Univ./2:JST-CREST/ Name : 1:Yuan-Zhen Ke/1:Yuuya Nagata/1:Michinori Suginome/
General Presentations-5	Nickel(0)-Catalyzed Highly Enantio- and Diastereo-selective Synthesis of Benzoxasiloles via Intramolecular Aryl Migration SI-4 Affiliation : 1:Osaka University, Suita, Osaka 565-0871, Japan/ Name : 1:Ravindra Kumar/1:Yoichi Hoshimoto/1:Hayato Yabuki/1:Masato Ohashi/1:Sensuke Ogoshi/
General Presentations-6	Glycerol as solvent in phenol oxidation with hydrogen peroxide. Reaction mechanism Affiliation : 1:Polish Academy of Sciences/2:Jagiellonian Univ./3:AGH Univ. of Science and Technology/ Name : 1:Katarzyna Pamin/1:Jan Poltowicz/2:Sylwia Basag/3:Wladyslaw Kubiak/1:Renata Tokarz-Sobieraj/
11:55	

Catalysts Session I

13:00	General Presentations-7	Full-spectrum-visible-light Heterogeneous Organophotocatalysis Enhanced by p-n-Semiconductor Biphasing and Multilayerization Affiliation : 1:Tokyo Institute of Technology/2:Hirosaki University/ Name : 1:Keiji Nagai/1:Moht Fairus Bin Ahmad/1:Chiharu Shinozaki/1:Tomokazu Iyoda/2:Toshiyuki Abe/
	General Presentations-8	Visible Light Driven Transformation of Aliphatic Alcohols to Corresponding Esters in O ₂ under Mild Conditions Affiliation : 1:Queensland University of Technology/ Name : 1:Huiyong Zhu/
	General Presentations-9	Integrated process simulation with self-consistent catalytic effectiveness factor for optimizing process for chemical production Affiliation : 1:Schneider Electric/ Name : 1:Seiya Hirohama/1:Marina Velazquez/1:Cal Depew/
	General Presentations-10	Sustainable Templates for Mesoporous Zeolite Synthesis. Affiliation : 1:Univ. Freiburg, Institut fuer Anorganische und Analytische Chemie/2:FMF - Freiburger Materialforschungszentrum/3:TU Berlin, Fakultaeet II, Institut fuer Chemie/ Name : 1:Robin J. White/1:Anna Fischer/2:Robin J. White/2:Anna Fischer/3:Caren Goebel/
	Keynote-12	In situ TEM observation on the catalytic performances of supported silver and alkali carbonate for PM combustion Affiliation : 1:Inst. Industrial Science, The Univ. of Tokyo/2:ESICB, Kyoto Univ./3:Ecotopia Science Inst., Nagoya Univ./ Name : 1:Masaru Ogura/1:Kohei Kamatani/3:Kimitaka Higuchi/3:Yuta Yamamoto/3:Shigeo Arai/
	General Presentations-11	Fischer-Tropsch catalysis - improving the catalyst for sustainable chemical processing Affiliation : 1:Chemistry Department and Centre for Sustainable Chemical Processes, Univ. Durham, UK/ Name : 1:Simon K. Beaumont/
	General Presentations-12	Characterisation of solid-state ion exchanged Cu-SSZ-13 applied for the reduction of environmentally harmful NO _x emissions Affiliation : 1:Chalmers University of Technology/

15:10 Name : 1:Anna Clemens/1:Alexander Shishkin/1:Per-Anders
Carlsson/1:Magnus Skoglundh/1:Hanna Haerelind/

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Energy & Recouces Session

- 9:15 General Presentations-13 Study of Reliability Degradation Indicators for Ethylene-Vinyl Acetate (EVA) Based PV Modules
Affiliation : 1:Underwriters Laboratories Taiwan Co. Ltd./2:Institute of Statistical Science, Academia Sinica/3:Department of Mathematics, Tamkang University/4:Hulk Energy Technology Co., Ltd./5:/
Name : 1:Ethan Wang/2:Chieng-Yu Peng/3:Chih-Chun Tsai/4:Ivan Chou/1:Carl Wang/
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- General Presentations-14 2-D MoSe₂ sheets/PEDOT:PSS composite film as the counter electrode for Pt-free dye-sensitized solar cells
Affiliation : 1:Nation Taiwan University/2:Nation Taiwan University/3:Nation Taiwan University/4:Nation Taiwan University/5:Nation Taiwan
Name : 1:Yi-June Huang/2:Miao-Syuan Fan/3:Chun-Ting Li/4:Chuan-Pei Lee/5:Kuo-Chuan Ho/
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- General Presentations-15 Towards high capacity electrochemical energy storage: stability of the Li-salt glyme complex in the Li-O₂ battery
SI-5 Affiliation : 1:Yokohama National University/2:Yamaguchi University/
Name : 1:Morgan L. Thomas/1:Hoi-Min Kwon/1:Ryoichi Tatara/2:Kazuhide Ueno/1:Kaoru Dokko/
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- General Presentations-16 Electrochemical Applications of Conductive Diamond Electrodes and the Tailored Design for Their Applications
SI-6 Affiliation : 1:Keio Univ./2:JST-ACCEL/
Name : 1:Takeshi Watanabe/1:Yasuaki Einaga/
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- General Presentations-17 Preparation of standalone photocatalyst plates for overall water
Affiliation : 1:Univ. Tokyo/2:ARPCHEM/
Name : 1:Takashi Hisatomi/1:Qian Wang/1:Anke Xiong/1:Jun Kubota/1:Domen Kazunari/
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Biomass Session

- 11:00 Keynote-13 Waste Cooking Oil Methyl Ester Production in a Hydrodynamic Cavitation Reactor
Affiliation : 1:Universiti Teknologi PETRONAS/
Name : 1:Lai Fatt Chuah/1:Suzana Yusup/1:Awais Bokhari/
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- Keynote-14 Development of Solid Heterogeneous Catalysts for Green Biofuels
Affiliation : 1:Catalysis Science and Technology Research Centre, Universiti Putra Malaysia/
Name : 1:Yun Hin Taufiq-Yap/
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- 13:00 General Presentations-18 Potential waste paper biorefineries-valorization of various paper and pulp industry-related wastes using microwave-assisted technologies
Affiliation : 1:Green Chemistry Centre of Excellence, The Univ. of York,UK/
Name : 1:Zhanrong Zhang/1:Avtar Matharu/
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- General Presentations-19 Palladium catalyzed, hydrogen free lignin depolymerization.
Affiliation : 1:Uppsala Univ./
Name : 1:V. Maxim Galkin/1:S. M. Joseph Samec/
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- General Presentations-20 Conversion of glycerol to acrolein and acrylic acid over isomorphously substituted Fe-MFI
Affiliation : 1:Univerty of Poitiers/
Name : 1:Modibo MOUNGUENGUI Diallo/1:Sebastien Laforge/1:Jerome Mijoin/1:Yannick Pouilloux/
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- General Presentations-21 Effect of Phosphotungstic Acid Loading on Its Structure and Activity in Glycerol Dehydration to Acrolein for Mesoporous Silica Supported Phosphotungstic Acid Catalyst
Affiliation : 1:Institute of Chemical Engineering Sciences, A*STAR, Singapore/
Name : 1:LICHENG LIU/1:BO WANG/:Armando Borgna/

General Presentations-22	Ag-Cu/MxOy catalysts for selective glycerol hydrogenolysis: role of the catalyst composition and reaction conditions Affiliation : 1:JPolish Academy of Sciences/2:Jagiellonian Univ./ Name : 1:Agata Zelazny/1:Katarzyna Samson/1:Ryszard Grabowski/1:Michal Sliwa/1:Malgorzata Ruggiero/
General Presentations-23	Solvent free synthesis of gamma-valerolactone by homogeneous hydrogenation of biomass-derived levulinic acid Affiliation : 1:Budapest University of Technology and Economics/ Name : 1:Laszlo T. Mika/1:Jozsef M. Tukacs/1:Balint Fridrich/
General Presentations-24	Degradation of Cellulose in its Homogeneous Aqueous Solution Affiliation : 1:Dept. Chem. Phys., Univ. Sci. Technol. China/ Name : 1:Lifeng Yan/1:Xiaoya Qi/1:Guanhua Hou/
General Presentations-25	Enzymatic saccharification of acid/alkali pretreated mill-run sugarcane bagasse Affiliation : 1:Durban Univ. of Technology/2:Univ. of Delhi/3:Sugar Milling Research Inst. NPC co/ Name : 1:Thandeka Mkhize/1:Lethiwe Mthembu/1:Nirmala Deenadayalu/2:Ramesh Kuhad/2:Amandeep Kaur/
General Presentations-26	Enzymatic Saccharification of Acid Alkali Pre-treated Depithed Sugarcane Bagasse Affiliation : 1:Durban Univ. of Technology, /2:The Univ. of Delhi, India/3:Sugar Milling Research Inst. NPC, c/o Univ. of Kwazulu- Natal, / Name : 1:Lethiwe Lethiwe/

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Green Session

9:15 General Presentations-27	Design of green and sustainable chemicals and Ecomaterials, using agriresidues as raw materials Affiliation : 1:CTB, UPM(Spain)/2:ICP, CSIC(Spain)/3:ICMM, CSIC (Spain),/4:Mahou San Miguel (Spain)/5:/ Name : 1:M. Ramos Gomez/2:M Yates/3:M. A. Martin-Luengo/4:J. L. Tartera/2:F Plou/
General Presentations-28	Catalytic depolymerization of humins: A step towards valorization Affiliation : 1:University of Groningen/ Name : 1:Shilpa Agarwal/1:Erik Heeres/
General Presentations-29	Green synthesis of valuable chemicals from woody biomass Affiliation : 1:National Institute of Advanced Industrial Science and Technology (AIST)/2:JST-PRESTO/3:Iwate University/ Name : 1:Aritomo Yamaguchi/1:Osamu Sato/1:Naoki Mimura/3:Masayuki
General Presentations-30	SI Thermal property of silk fibroin: relationship between glass transition temperatures and water molecules Affiliation : 1:Enzyme Research Team, Biomass Engineering Program Cooperation Division, RIKEN/ Name : 1:Kenjiro Yazawa/1:Keiji Numata/
General Presentations-3	Investigation of polyhydroxyalkanoates (PHAs) production in photosynthetic purple bacteria SI-7 Affiliation : 1:RIKEN CSRS Enzyme Research Team/ Name : 1:Mieko Higuchi-Takeuchi/1:Keiji Numata/
General Presentations-32	Fujifilm`s approach to water problems Affiliation : 1:FUJIFILM Corporation/ Name : 1:YASUFUMI NAKAI/
General Presentations-33	Unprecedented Alkali Metal Amide Catalyzed Formal Csp3 H Bond Activation Affiliation : 1:The Univ. of Edinburgh/ Name : 1:Wei Bao/1:Hanno Kossen/1:Uwe Schneider/
General Presentations-34	Green Chemistry Lab Education via Designing Micro scale Affiliation : 1:Faculty of Science, Aswan Univ./2:Faculty of Science, Jazan Name : 1:Fayez M. Eissa/2:Zaraag Al-Fifi/
General Presentations-35	Green Chemistry Education through Environmentally benign

	Affiliation : 1:Tohoku University/ Name : 1:Kazuko Ogino/
13:00	General Presentations-36 Extractive of Value-Added Components from Sugar Cane Bagasse Affiliation : 1:Durban University of Technology/ Name : 1:Nirmala Deenadayalu/
	General Presentations-37 Recycled AI Agro-waste for the Extraction of Carcinogenic Chloroethenes Affiliation : 1:Univ. of Malaya/ Name : 1:Geetha Selvaraju/1:Nor Kartini Abu Bakar/
	General Presentations-38 Study on the flocculation mechanism of the lysine-treated pectins by analysis of their structure Affiliation : 1:Tokyo Univ. of Marine Science and Technology/ Name : 1:Shunsuke Sato/1:Makiko Enoki/
	General Presentations-39 Fabrication of 3D Micro-Structured Materials by Biotemplating Affiliation : 1:JST-ERATO Iyoda Project, Tokyo Inst. of Tech./ Name : 1:Kaori Kamata/1:Zhenzi Piao/1:Toshihiro Yamada/1:Tomokazu
	General Presentations-40 Magnetic Iron Oxide Nanofibers with Hierarchical Structure for Water Treatment Affiliation : 1: Jiangnan University/2:Fudan University, Shanghai Name : 1:Qiang Gao/1:Chunxia Gao/1:Xinyue Wang/1:Ningjun Tong/1:Mingqiao Ge/
	General Presentations-41 Acid/Base Sensitive, Conformationally Switchable Fluorescent Oligophenol Foldamers as Sensors for Patterned Recognition of Amines/Ammonia Affiliation : 1:Key Laboratory of Eco-textile, Ministry of Education, Jiangnan Univ./2:Inst. of Bioengineering and Nanotechnology/ Name : 1:Chang Sun/1:Changhai Xu/1:Zhiyong Huang/2:Huaqiang Zeng/
	General Presentations-42 Photo-responsive self-assemblies based on thymine incorporated bolaamphiphiles Affiliation : 1:Monash University/ Name : 1:Ahmed Al-Shereiqi/
	General Presentations-43 Environmentally benign Pickering emulsion polymerized magnetic composite particles and their magneto-response Affiliation : 1:Inha Univ./ Name : 1:Hyoung Jin Choi/1:Seung Hyuk Kwon/
	General Presentations-44 Development of new type bioflocculant using sea algae and plants from the viewpoint of commercial applications Affiliation : 1:Tokyo Univ. of Marine Science and Technology/2:Graduate School of Agricultural and Life Sciences, The Univ. of Tokyo/ Name : 1:Makiko Enoki/1:Shunsuke Sato/2:Mai Takase/
	General Presentations-45 Application of Nature Pressure Osmotic Energy with Pressure Retarded Osmosis (PRO) System as Renewable Energy to alternate Non-Renewable Energy Affiliation : 1:Univesity of Indonesia/ Name : 1:Adi Nurcahyo Nurcahyo/2:Magfira Fauzia/

Hitotsubashi Hall

Invited Lecture & Banquet

	Invited Lecture-6 Fuel Cell Vehicle Development and Initial Market Creation Affiliation : 1:Toyota Motor Corporation/ Name : 1:Taiyo Kawai/
	Invited Lecture-7 Affiliation : 1:VEORIA Name :
17:10	Commendation ceremony for GSC Award Affiliation : Name :
17:45	Banquet Josui kaikan@starHall

July 8 (Wed)

Hitotsubashi Hall

9:15 Invited Lecture-8

Affiliation : RWTH Aachen University
Name : Prof. Walter Leitne

Invited Lecture-9

Affiliation : The University of Tokyo
Name : Prof. S. Kobayashi

Special Session

10:50 GSC Award Presentations-1 METI Prize

Affiliation :
Name :

GSC Award Presentations-2 MEXT Prize

Affiliation :
Name :

GSC Award Presentations-3 MOE Prize

Affiliation :
Name :

12:50 Keynote-15

Sustainable Carbon Chemistry

Affiliation : 1:JAPAN PETROCHEMICAL INDUSTRY ASSOCIATION/
Name : 1:Atsushi Iwai/

General Presentations-46 Visualization of Plastic Waste Flow in Japan

Affiliation : 1:Plastic Waste Management Institute/
Name : 1:Hisao Ida/1:Osamu Sakaguchi/1:Akihiro Izumi/1:Takushi Kamiya/

General Presentations-47

Affiliation :
Name :

General Presentations-48 Toughening PLA and PLA/Thermoplastic Starch Films based on Isotropically Small Crystallites initiated by Biaxial-stretching

Affiliation : 1:Chulalongkorn University/2:National Science and Technology Development Agency, Ministry of Science and Technology, Thailand/3:Toyota Technological Institute/
Name : 1:Suwabun Chirachanchai/1:Piyawanee Jariyasakoolroj/2:Wanee Chinsirikul/3:Kohji Tashiro/

General Presentations-49 Development of high capacity magnetic tape as low power consumption storage media

Affiliation : 1:FUJIFILM Corporation/
Name : 1:Hitoshi Noguchi/1:Osamu Shimizu/

Keynote-16

CO₂-Switchable Surfaces

Affiliation : 1:Dept. of Chemistry, Queen's Univ., Canada/2:Dept. of Chemical Engineering, Queen's Univ., Canada/

14:45

Name : 1:Philip Jessop/2:Michael Cunningham/

Conf. Room 101-102

Catalysts Session II

10:50 General Presentations-50 Catalytic affinities of magnetic nano-Fe₃O₄-adorned calix[n]arene derivatives in water

Affiliation : 1:Giresun University/
Name : 1:Serkan Sayin/

General Presentations-51 Green Synthesis of N-Mannich Bases of 3, 4 Dihydropyrimidin-2(1H)-ones by Using Fe₃O₄@SiO₂@Et-PhSO₃H as Recyclable and Magnetically Separable Catalyst

Affiliation : 1:G.S. Science, Arts and Commerce College, Khamgaon/
Name : 1:Deepak Nagrik/

	General Presentations-52	Nano-size perovskite catalyst synthesised by reactive grinding for diesel soot oxidation Affiliation : 1:Indian Institute of Technology (BHU)/ Name : 1:RAM PRASAD/1:Anupama Mishra/
	General Presentations-53	Development of a low cost 'green' technology for degradation of dyes and disinfection of materials using iron Affiliation : 1:National Agriculture and Food Research Organization/ Name : 1:Claudio Kendi Morikawa/
12:50	General Presentations-54	New Aquivion/silica nanocomposite for catalytic glycerol etherification with n-butanol Affiliation : 1:Eco-Efficient Products and Processes Lab. (E2P2L), UMI 3464 CNRS/Solvay/2:Shanghai Key Lab. for Molecular Catalysis and Innovative Materials and Lab. of Advanced Materials, Fudan Univ./ Name : 1:Wenhao Fang/2:Sheng Wang/1:Armin Liebens/1:Floryan De Campo/2:Wei Shen/
	General Presentations-55	An Efficient Production of Benzene from Benzoic Acid in Subcritical Water Using a Copper (I) Oxide Catalyst Affiliation : 1:National Institute of Advanced Industrial Science and Technology/ Name : 1:Qingxin Zheng/1:Masato Morimoto/1:Toshimasa Takaohashi/
	General Presentations-56	Bio-inspired (Fe,Ni)S nano-catalysts for CO ₂ conversion Affiliation : 1:Utrecht University, Department of Earth Sciences/2:University College London, Name : 1:NELSON DZADE/2:ALBERTO ROLDAN/2:NORA DE LEEUW/
	General Presentations-57	Solid acid catalysts in synthesis of levulinic acid from furfuryl alcohol Affiliation : 1:University of Basque Country (UPV/EHU)/ Name : 1:Ilian Guzman Velez/1:Maria Belen Guemez Bilbao/1:Jose Cambra Ibanez/1:Jesus Requies/1:Pedro Luis Arias Ergueta/
	General Presentations-58	Preparation,properties,and application of mesoporous sulfated zirconia nanoparticles Affiliation : 1:Shanghai Jiao Tong University/2:Shanghai University/ Name : 1:Gong-YI Guo/2:Yu-Li Chen/
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Polymer Session

10:50	Keynote-17	Toughening PLA and PLA/Thermoplastic Starch Films based on Isotropically Small Crystallites initiated by Biaxial-stretching Affiliation : 1:Chulalongkorn UniversityThailand/2:National Metal and Materials Technology Center, National Science and Technology Development Agency Thailand/3:Toyota Technological Institute/ Name : 1:Suwabun Chirachanchai/1:Piyawanee Jariyasakoolroj/2:Wanee Chinsirikul/3:Kohji Tashiro/
	General Presentations-59	Application of Biopolymers in Membranes for Air Dehumidification. Affiliation : 1:Chemical Engineering Department, Tokyo Institute of Technology,/2:Division of Environmental Engineering Science, Gunma University/ Name : 1:Alina Kudasheva/1:Yuichiro Hirota/2:Yutaka Kawahara/1:Akira Ito/
	General Presentations-60	Flexible OLEDs Fabricated by full Roll to Roll Process Affiliation : 1:CEREBAs (Chemical materials Evaluation and REsearch BAse)/ Name : 1:Takashi Minakata/1:Mitsuru Tanamura/1:Yasuhiro Mitamura/1:Akira Sugimoto/1:Yukito Yada/
12:50	Keynote-18	Biosynthesis, biorecovery and application of polyhydroxyalkanoates produced from oil palm products Affiliation : 1:Univ. Sains Malaysia/ Name : 1:Kumar Sudesh/
	General Presentations-61	Transition-Metal-Free Controlled Polymerization of 2-fluoroaryl-5-trimethylsilylthiophenes Affiliation : 1:JST-ERATO and Tokyo Institute of Technology/ Name : 1:Takanobu Sanji/1:Junko Kakinuma/1:Tomokazu Iyoda/

	General Presentations-62	Controlling Polymer and Nanoparticle Assembly by Three Independent Interactions Affiliation : 1:Jiangnan University/ Name : 1:Dan Zhang/
14:00	General Presentations-63	A Sustainable Process for Production of Nanostructured Polymer/Inorganic Composite Particles Affiliation : 1:IMRAM, Tohoku University/2:PRESTO, JST/ Name : 1:Hiroshi Yabu/1:Takeshi Higuchi/

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Reaction Medium Session

10:50	Keynote-19	Subcritical and Supercritical Fluid Technology for Extraction of Natural Bioactive compounds and Conversion of Biomass to High Value Products Affiliation : 1:Chulalongkorn University/2:Nagoya University/3:Kumamoto University/ Name : 1:Artiwan Shotipruk/1:Panatpong Boonnoun/2:Motonobu Goto/3:Mitsuru Sasaki/3:Armando Quitain/
	Keynote-20	Hydrothermal and Supercritical CO ₂ Extraction of Phytochemical Compounds from Natural Products Affiliation : 1:Sepuluh Nopember Institute of Technology/ Name : 1:Siti Machmudah/
12:50	General Presentations-64	Hybrid Extraction Process Using Two-Phase Green Solvent of Supercritical Carbon Dioxide and Liquid Water Affiliation : 1:Nagoya University/2:Sepuluh November Institute of Technology/3:SCF Techno-Link/ Name : 1:Motonobu Goto/2:Siti Machmudah/1:Wahyudiono /1:Hideki Kanda/3: Ryuichi Fukuzato/
	General Presentations-65	Efficient-Oxygen Induced Decomposition of Melt-Processable Fluoropolymers in Subcritical and Supercritical Water Affiliation : 1:Kanagawa Univ/2:Asahi Glass Co./ Name : 1:Hiisao Hori/1:Takehiko Sakamoto/1:Kenta Ohmura/1:Haruka Yoshikawa/1:Tomohisa Seita/
	General Presentations-66	Surfactant-Free Supercritical Hydrothermal Synthesis of high-crystalline Pyrochlore-type La ₂ Zr ₂ O ₇ Nanoparticles for Coating process Affiliation : 1:Tohoku Univ./ Name : 1:Daisuke Hojo/1:Hiroaki Ohara/1:Tsutomu Aida/1:Nobuaki Aoki/1:Gimyeong Seong/
	General Presentations-67	Direct alpha arylation of ethers over metal loaded TiO ₂ Affiliation : 1:GRADUATE SCHOOL OF HUMAN AND ENVIRONMENTAL STUDIES, KYOTO UNIVERSITY/ Name : 1:AKANKSHA TYAGI/1:TOMOYA MATSUMOTO/1:HISAO
	General Presentations-68	Conversion of 5-hydroxymethylfurfural to 5-dimethylfuran in supercritical carbon dioxide medium Affiliation : 1:AIST, Tohoku/ Name : 1:MAYA CHATTERJEE/
14:00		

Hitotsubashi Hall

16:00	Invited Lecture-10	Affiliation : Seoul National University Name : Prof. Y. W. Lee
	Invited Lecture-11	Affiliation : Warner Babcock Institute for Green Chemistry, LLC Name : Dr. J.C. Warner
	Plenary Lecture-4	Affiliation : METI Name :

Commendation ceremony for GSC Poster Award

Affiliation :

Name :

16:50 Closing remarks

Affiliation : Vice President of JACI

Name : Mr. Ishizuka
