

TOCAT7 Pre-symposium in Shiretoko, program

May 29

- 16:30-17:30 Registration
- 17:30-18:30 PL Prof. Tao Zhang (DICP, China)
One-Pot Catalytic Conversion of Cellulose to Ethylene Glycol: From Discovery to Potential Commercialization
- 18:30-19:00 Break
- 19:00-20:30 Welcome reception

May 30

- 9:10-9:20 Opening remark
- 9:20-10:10 IL1 Prof. Jorge N. Beltramini (Univ. of Queensland, Australia)
Mechanocatalytic Depolymerization of Lignocellulosic Biomass for Fuels and Chemicals Conversion
- 10:10-10:30 Break
- 10:30-11:10 IL2 Dr. Po-Wen (Cedric) Chung (UC Berkeley, USA)
Understanding the Adsorption and Depolymerization of Biomass-Derived Polysaccharides on Porous Carbon Materials
- 11:10-11:50 IL3 Dr. Paresh L. Dhepe (National Chemical Lab., India)
Brønsted acidic ionic liquids for the conversion of hemicelluloses and lignin
- 12:00-13:00 Lunch
- 13:00-13:30 Poster parade
- 13:30-14:30 Poster session
- 14:30-14:50 Break
- 14:50-15:10 OL1 Mr. Nobuhiro Ishito (Hokkaido Univ., Japan)
Immobilization of metal complexes on organic ligands in periodic mesoporous organosilicas
- 15:10-15:50 IL4 Prof. Kevin C.-W. Wu (National Taiwan Univ., Taiwan)
Functionalized Mesoporous Silica-Based Nanocatalysts for Production of Biofuel from Cellulosic Biomass
- 15:50-16:10 Break
- 16:10-16:50 IL5 Prof. Ning Yan (National Univ. of Singapore, Singapore)
Waste Biomass to Chemicals via Green Catalysis
- 16:50-17:30 IL6 Prof. Keiichi Tomishige (Tohoku Univ., Japan)
Conversion of CO₂ and alcohols/amines to carbonates, carbamates, and ureas catalyzed by CeO₂
- 17:30-19:00 Break
- 19:00-20:30 Banquet

May 31

- 8:30-9:00 Panel discussion (Atsushi Fukuoka & Hirokazu Kobayashi)
Recent Progress in Biomass Conversion by Heterogeneous Catalysis
- 9:00-9:10 Closing remark
- 10:00-18:00 Scientific excursion (optional with additional fee)
- 18:00-20:00 Review meeting (only for local organizing committee members)

Poster program

- P01** **H. Shitara, K. Terai, Y. Nakasaka, T. Tago, T. Masuda**
Selective synthesis of allyl compound from glycerol over iron-oxide based catalyst
- P02** **H. Kaiki, K. Techikawara, H. Kobayashi, A. Fukuoka**
Preparation of highly active carbon catalyst for cellulose hydrolysis
- P03** **K. Techikawara, H. Kaiki, H. Kobayashi, K. Hara, A. Fukuoka**
Hydrolysis of biomass by carbon catalyst
- P04** **M. Yabushita, H. Kobayashi, J. Hasegawa, K. Hara, A. Fukuoka**
Adsorption of cellulosic molecules onto carbons with positive entropy change
- P05** **A. Shrotri, H. Kobayashi, A. Tanksale, A. Fukuoka, J. Beltramini**
Transfer hydrogenation of cellulose oligomers to sugar alcohols in a fixed bed reactor
- P06** **H. Yokoyama, M. Yabushita, H. Kobayashi, S. Ito, K. Hara, A. Fukuoka**
Dehydration of sorbitol to 1,4-sorbitan controlled by selective adsorption on sulfated zirconia catalyst
- P07** **X. Chen, N. Yang**
Direct Conversion of Chitin into N-Containing Furan Derivative
- P08** **T. Yokoya, M.-C. Chao, C. Jiang, K. Hara, A. Fukuoka**
Low Temperature Oxidation of Ethylene over Platinum Nanoparticles Supported on Mesoporous Silica
- P09** **X. Qian, T. Kamegawa, K. Mori, H. Li, H. Yamashita**
Mesoporous Calcium Phosphate Modified TiO₂/SBA-15 toward Enhanced Adsorption-photocatalysis Performances
- P10** **P. Liu, X. Qian, D. Zhang, H. Li, K. Mori, H. Yamashita**
Cu/ZIF-8 Core-shell Nanowires for Hydrogen Production by Catalytic Hydrolysis of Ammonia Borane
- P11** **G. Watanabe, T. Taniguchi, Y. Nakasaka, T. Tago, T. Masuda**
Selective formation of β,β -dimethylnaphthalene by methylation of 2-methylnaphthalene over zeolite catalysts
- P12** **K. Hara, S. Jagtap, Y. Kaji, A. Fukuoka**
Densely Packed Monolayer of Metal Complexes on Gold Surface: Application in Selective Catalysis