Catalytic Chemistry for Carbon Neutrality Sep. 10th, 2023 Room D

Chaired by Keiichi Tomishige (Tohoku Univ.)

Sep. 10th (Sun.)

10:00 – 10:15 Chaired by Mizuho Yabushita (Tohoku University)

10D1 • Yoshinao Nakagawa (Tohoku University, Japan)

"Regioselective C-O hydrogenolysis of biomass-derived polyols"

10:15 – 10:30 Chaired by Mizuho Yabushita (Tohoku University)

10D2 • Chao Gai, Zhengang Liu (Chinese Academy of Science / Tohoku University, China)

"Steering biomass waste to value-added biofuels under facile condition by hydrochar-based nanocatalysts"

10:30 – 11:00 Chaired by Mizuho Yabushita (Tohoku University)

10D3 ONoritatsu Tsubaki (University of Toyama, Japan)

"New Synthesis Reactions by Tailor-Made Catalysts in CO/CO2 Hydrogenation"

11:00 – 11:30 Chaired by Mizuho Yabushita (Tohoku University)

10D4 • Yasushi Sekine (Waseda University, Japan)

"Surface protonics promotes low temperature catalysis"

11:30 – 12:00 Chaired by Mizuho Yabushita (Tohoku University)

10D5 OHiroshi Kondoh (Keio University, Japan)

"Catalytically Active Surfaces Observed by In Situ Surface Spectroscopy"

12:00 – 12:30 Chaired by Yoshinao Nakagawa (Tohoku University)

10D6 OKevin C.-W. Wu

(National Taiwan University / National Health Research Institutes, Taiwan)

"Nanoporous Metal-Organic Frameworks (MOFs) Catalysts for Biomass and Plastics Conversion"

14:15 – 14:30 Chaired by Yoshinao Nakagawa (Tohoku University)

10D7 OMizuho Yabushita (Tohoku University, Japan)

"CeO2-Catalyzed Transformation of Amine Carbamates into Value-Added

Chemicals"

14:30 – 14:45 Chaired by Yoshinao Nakagawa (Tohoku University)

10D8 OZiwei Song, Lijuan Liu, Xu Zhu (Yanshan University / Tohoku University, China)

"Selective Conversion of Cellulose over Na-ZSM-5: Effect of Basic Sites"

14:45 – 15:15 Chaired by Yoshinao Nakagawa (Tohoku University)

10D9 OMasazumi Tamura (Osaka Metropolitan University, Japan)

"Development of Ru-based catalysts for hydrogenolysis of plastic wastes to valuable chemicals"

15:15 – 15:45 Chaired by Yoshinao Nakagawa (Tohoku University)

10D10 • Yutaka Amao (Osaka Metropolitan University, Japan)

"Visible-light driven biodegradable polymer precursor synthesis from gaseous CO₂ using photo/biocatalytic system"

15:45 – 16:15 Chaired by Masazumi Tamura (Osaka Metropolitan University)

10D11 OAkira Nakayama (The University of Tokyo, Japan)

"Microscopic Understanding of Interface at Liquid/Solid-Oxide and Molecular Adsorption on the Surface by Neural Network Potentials"

16:15 – 16:45 Chaired by Masazumi Tamura (Osaka Metropolitan University)

"Catalytic Hydrogenation of Carboxylic Acids Using Tailored Molecular Catalysts"