



東北大学

Chemistry Symposium on 25 Anniversary of Dalian University of Technology and Tohoku University
6th Dalian University of Technology–Tohoku University Joint Symposium on Chemistry

Date: May 23rd, 2022, from 13:30 (JST) 12:30 (CST), on line

Conference address: Zoom conference number: 878 9803 3806 Password: 085061

Program

Chair: **Prof. Masahiko Yamaguchi** (DUT)

13:30–13:40 (JST) Opening remarks

Professor Yi Liu (DUT)

Professor Masahiro Terada (TU)

Chair: **Prof. Yoshinao Nakagawa** (TU)

13:40–14:10

Prof. Jianzhang Zhao (DUT)

Energy Transfer and Intersystem Crossing in Transition Metal Complexes Showing Strong Visible Light Absorption and Long-Lived Triplet State

14:10–14:40

Prof. Kazuo Takimiya (TU, Grad. Sch. Science)

Synthesis of Molecular Semiconductor Crystals: Towards Rational Design of Crystal Structures for Efficient Carrier Transport

14:40–14:50 Break

Chair: **Prof. Tiexin Zhang** (DUT)

14:50–15:00

Keita Nakane (TU, Grad. Sch. Life Science, Supervisor: Prof. Minoru Ishikawa)

Development of Proximity Labeling via Histidine Oxidation by Singlet Oxygen

15:00–15:10

Hongyu Guo (DUT, Supervisor: Prof. Ming Bao)

Palladium-Catalyzed Reductive Dimerization of Terminal Alkynes

15:10–15:20

Naoto Hasegawa (TU, IMRAM, Supervisor: Prof. Hiroshi Kumigashira)

Electronic Structure of Ti₂O₃ Thin Films Investigated by Synchrotron Radiation Spectroscopy

Chair: **Prof. Shinji Kajimoto** (TU)

15:20–15:30

Yuxuan Zhang (DUT, Supervisor: Prof. Kun Shao)

Noninvasively Sono-Immunotherapy with Methyl ester Chlorin-E6-CA -MPLA Nanoliposomes against Primary Breast Cancer and Metastasis

15:30–15:40

Koki Kannari (TU, Grad. Sch. Science, Supervisor: Prof. Shen Ye)

In-situ Surface-Enhanced Raman Scattering (SERS) Observation of Reaction Products on the Cathode Surface of Li-O₂ Battery

15:40–15:50

Lin Ni (DUT, Supervisor: Prof. Chang Yu)

Design and Optimization of Carbon-Based Emulsifiers for Pickering Interfacial Catalysis

15:50–16:00 Break

Chair: **Prof. Jianzhang Zhao** (DUT)

16:00–16:20

Prof. Guanghui Zhang (DUT)

Structural Evolution of Metal Oxide and Carbide Catalysts during CO₂ Hydrogenation

16:20–16:40

Prof. Yoshinao Nakagawa (TU, Grad. Sch. Technology)

Hydrodeoxygenation of Biomass-derived Compounds to Fuels and Useful Chemicals

Chair: **Kazuo Takimiya** (TU)

16:40–17:00

Prof. Tiexin Zhang (DUT)

Confined Electron Transfer within MOFs for Synergy of Photocatalysis and Transition-Metal Catalysis

17:00-17:20

Prof. Shinji Kajimoto (TU, Grad. Sch. Pharm. Sciences)

Label-free Visualization of Intracellular Temperature by Raman Imaging of Water in a Cell

17:20 Closing remarks

Prof. Ming Bao (DUT)

Prof. Yujiro Hayashi (TU)

Organizing committee

Masahiko Yamaguchi

Masahiro Terada

Ming Bao

Yujiro Hayashi

Sheng Zhang

Shigenobu Umemiya