

10th Jilin-Korea-Waseda Alliance Annual Symposium

Date: September 10, Friday, 2021

Program

► Session1. (Chair. Prof. Han Young Woo)

- 10:20 - 10:30 Opening Address - Prof. Dong Hoon Choi (Director, RINS, Korea University)
- 10:30 - 11:00 Prof. Kenichi Oyaizu (Waseda University)
 "Organic Electroactive Nanomaterials for Efficient Energy Conversion and Storage"
- 11:00 - 11:30 Prof. Long Chen (Jilin University)
 "2D Conjugated Polymers"
- 11:30 - 12:00 Prof. Hyo Jae Yoon (Korea University)
 "Can Alkanes Do More than We Expect in Energy Science?"
- 12:00 – 13:30 Lunch

► Session2. (Chair. Prof. Kenichi Oyaizu)

- 13:30 - 13:40 Crosslinkable conjugated donor and acceptor polymers for improving the stability
 of all-polymer solar cells
 Na Yeon Kwon, Dong Hoon Choi (Korea University)
- 13:40 - 13:50 Design of Metal-Free Carbonized Polymer Dots: A New Class of Room Temperature
 Phosphorescent Materials
 Songyuan Tao, Bai Yang (Jilin University)
- 13:50 - 14:00 Synthesis of microporous titanosiloxane materials using cage siloxane as building
 blocks
 Takuya Hikino, Hiroaki Wada, Kazuyuki Kuroda, Atsushi Shimojima (Waseda)

University)

- 14:00 - 14:10 Suppressing the over-oxidation of RuO₂ nanocatalyst *via* Pt doping for efficient and stable electrochemical water oxidation
Songa Choi, Kwangyeol Lee (Korea University)
- 14:10 - 14:20 θ -Solvent-Mediated Double-Shell Polyethylene Glycol Brushes on Nanoparticles for Improved Stealth Properties and Delivery Efficiency
Yao Xue, Kun Liu (Jilin University)
- 14:20 - 14:30 Hydroxy-Bearing Poly(phenylene sulfide): A Colorless and Transparent Polymer with Unprecedented Ultrahigh Refractive Index
Seigo Watanabe and Kenichi Oyaizu (Waseda University)
- 14:30 - 14:40 Molecular Design Strategy of Narrowband Emitters and Study of Azaacene-based Narrowband Green-Emitting Fluorophores for Pure-Color Organic Light-Emitting Diodes
Jung Min Ha, Sungnam Park, and Han Young Woo (Korea University)
- 14:40 - 14:50 Reversible Luminescent "Off-On" Regulation Constructed by Tunable Photodimerization via Crystal-to-Cocrystal Transformation
Yufei Wang, Shimei Jiang (Jilin University)
- 14:50 - 15:00 Polymer bearing nitrogen heterocycles for hydrogen carrier
Yusuke Kaiwa (Waseda University)

15:00 – 15:30 Coffee Break

► **Session3. (Chair. Prof. Shimei Jiang)**

- 15:30 - 16:00 Prof. Kyoungsuk Jin (Korea University)
"A Study of electrochemical olefin epoxidation"
- 16:00 - 16:30 Prof. Atsushi Shimojima (Waseda University)
"Design of Self-healing Siloxane-based Nanomaterials"

16:30 - 17:00 Prof. Xiaokong Liu (Jilin University)

"Hydrogen-Bonded Supramolecular Plastics and Elastomers with Superhigh Strength and Ultrahigh Toughness"

17:00 Closing