

2011 KAIST-Kyoto University Chemistry Symposium

February 16-18, 2011

Graduate School of Science
Seminar House
Kyoto University
Kyoto, Japan

Schedule

Wednesday, Feb. 16

Registration & Welcome Party

Thursday, Feb. 17

- 9:20-9:30 **Opening Remarks**
 Prof. Kazuyoshi Yoshimura (Kyoto Univ.)
- 9:30-10:10 **Prof. SangYoul Kim** (KAIST)
 Dual-patterned Structure by Self-assembly and Breath Figure of Photopolymerizable Molecules Containing Diacetylene Group
- 10:10-10:50 **Prof. Yoshiyasu Matsumoto** (Kyoto Univ.)
 Vibrational dynamics of adsorbates studied with time-resolved nonlinear spectroscopy
- 10:50-11:30 **Prof. Bongsoo Kim** (KAIST)
 Innovative Single-Crystalline Metal and Metal Compound Nanowires
- 11:30-12:50 **Lunch**
- 12:50-16:00 **Oral Introduction of Posters**
- P-1 **George Hasegawa** (Kyoto Univ.)
 Macroporous Carbon Monoliths with High Surface Area for Electric Double-Layer Capacitor
 - P-2 **Young Min Kim** (KAIST)
 Tracking Protein Helix Motion using Pump-Probe Wide-Angle X-ray Scattering
 - P-3 **Daniel M. Packwood** (Kyoto Univ.)
 Non-Gaussian Frequency Modulation of an Oscillator
 - P-4 **Ji young Park** (KAIST)
 Compound methods for molecules containing heavy elements
 - P-5 **Sunhwa Song** (Kyoto Univ.)
 Direct asymmetric benzoyloxylation of aldehydes catalyzed by 2-tritylpyrrolidine
 - P-6 **Young Hwan Min** (KAIST)
 WO₃ Tip Catalyzed Adsorption of Thiol Molecules on Ge(100) Surface
 - P-7 **Kohei Kusada** (Kyoto Univ.)
 Hydrogen-Storage Properties of Solid-Solution Alloy of Immiscible Neighboring Elements with Pd
 - P-8 **Seung A Woo** (KAIST)
 High Resolution Bilayer Resists Using Blends of Photoresists and Silicon-Containing Materials

- P-9 **Kayo Suda** (Kyoto Univ.)
 Study on Relationship between Fluctuation and Proton Transfer
 Reaction in Room Temperature Ionic Liquids
- P-10 **Jong Wook Hong** (KAIST)
 One-Pot Synthesis and Electrocatalytic Activity of Octapodal Au-Pd
 Nanoparticles
- P-11 **Arend G. Dijkstra** (Kyoto Univ.)
 Excitation dynamics in a quantum mechanical bath: anisotropy decay in
 DNA
- P-12 **Shin Wook Kang** (KAIST)
 One-pot synthesis of dendritic Pd-Au/C electrocatalysts with enhanced
 activity and durability toward ethanol oxidation
- P-13 **Taichi Inagaki** (Kyoto Univ.)
 Free energy profile for the hydrogen transfer reaction of ubiquinol complex in
 ethanol
- P-14 **Seokpil Sa** (KAIST)
 Controlling Branch Distribution by Steric Tuning of Ni α -Diimine
 Complexes Based on Phenanthrenequinone
- P-15 **Yoshiyuki Ohtsubo** (Kyoto Univ.)
 Spin polarization of semiconductor surface state localized in subsurface
 layers
- P-16 **Hyun Kyung Shin** (KAIST)
 Molecular dynamics study of Brownian motion
- P-17 **Tsuguyoshi Toyooka** (Kyoto Univ.)
 Crowding effect on the reaction dynamics of blue light sensor protein;
 TePixD
- P-18 **Jinhee Lee** (KAIST)
 Development of New Triarylamine-Based Alternating Copolymers for
 Polymer Solar Cells
- P-19 **Koji Osawa** (Kyoto Univ.)
 Spectroscopic study on intramolecular charge transfer reaction of
 p-Nitroaniline in liquid-to-supercritical water
- P-20 **Seonki Hong** (KAIST)
 A Surface-Immobilized, Organic-Inorganic Hybrid Matrix for Laser
 Desorption Ionization – Time of Flight Mass Spectrometry
- P-21 **Daisuke Sasaki** (Kyoto Univ.)
 Crystallographic study of heterodimeric prenyltransferase
- P-22 **Yongbeom Seo** (KAIST)
 Assessment of External Acid Sites on MFI Zeolites with different
 thickness
- P-23 **Takayuki Tanaka** (Kyoto Univ.)
meso-meso, β - β , β - β Triply-Linked Porphyrin-Hexaphyrin Hybrids

- P-24 **Suk-Jun Youn** (KAIST)
Recognition of Lipopeptide Patterns by Toll-like Receptor 2-Toll-like Receptor 6 Heterodimer
- P-25 **Kazuhiro Nawa** (Kyoto Univ.)
Crystal growth and magnetic properties of the one-dimensional alternating chain compound $\text{Pb}_2\text{V}_3\text{O}_9$
- P-26 **So-Yeon Kim** (KAIST)
Probing of Excited State with High Resolution Photoelectron Imaging
- P-27 **Ken-ichi Inoue** (Kyoto Univ.)
Application of Sum Frequency Generation Vibrational Spectroscopy with Heterodyne Detection to Ultrafast Dynamics of CO on Pt(111)
- P-28 **Si-in Kim** (KAIST)
Epitaxially-Driven Stereoaligned Growth of FeSi Nanowires from Oriented FeSi Seed Structures
- P-29 **Tomoko Mashimo** (Kyoto Univ.)
Folding Pathways of Human Telomeric G-quadruplex Structures
- P-30 **Hyoban Lee** (KAIST)
The one-step approach for preparing the bent gold nanowire as single crystalline form
- P-31 **Tatsuya Matsunaga** (Kyoto Univ.)
 ^2H MAS NMR study of metal-insulator transition in a conductive organic complex $(\text{EDO-TTF})_2\text{PF}_6$
- P-32 **Jae Young Kim** (KAIST)
Platinum-Centered Yolk-Shell Nanostructure Formation by Sacrificial Nickel Spacers
- P-33 **Atsushi Tanizawa** (Kyoto Univ.)
NMR studies in *A*-site-ordered perovskites $\text{ACu}_3\text{V}_4\text{O}_{11}$
- P-34 **Byung-Kwon Kim** (KAIST)
Palladium Nanoparticle Formation on Bare Indium Tin Oxide Electrode by Cyclic Voltammetry and Their Catalytic Properties for Formic Acid Oxidation
- P-35 **Atsunori Sakurai** (Kyoto Univ.)
Does \hbar play a role in multidimensional spectroscopy? Reduced hierarchy equations of motion approach to molecular vibrations
- P-36 **Jieon Lee** (KAIST)
A New Platform for Endonuclease Activity Assay Based on Graphene Oxide
- P-37 **Keigo Sasaki** (Kyoto Univ.)
Iron-Catalyzed Pinacol Coupling of Aryl Ketones with a Phenyltitanium Reagent

16:00-18:00 **Poster Session**

18:00-20:00 **Banquet & Poster Awarding**

Friday, Feb. 18

- 9:30-10:10 **Prof. Sang Woo Han** (KAIST)
Bimetallic Nanocrystals with Well-Defined Morphologies toward
Fuel Cell Applications
- 10:10-10:40 **Prof. Hideki Yorimitsu** (Kyoto Univ.)
Unsaturated Alcohols as Surrogates of Organometallic Reagents in
Palladium-Catalyzed C-C Bond Formation
- 10:40-11:10 **Prof. Shinichiro Hatta** (Kyoto Univ.)
Rashba Effect on metal-adsorbed semiconductor surfaces
- 11:10-11:40 **Prof. Koji Ando** (Kyoto Univ.)
Quantum Transfers in Chemistry: Theoretical and Computational Studies
- 11:40-13:00 **Lunch**
- 13:00-17:00 **Laboratory Tour & Research Discussion**

Closing Session