CRC International Symposium on Green & Sustainable Catalysis : from Theoretical and Fundamental Aspects to Catalyst Design

January 26-27, 2012

Catalysis Research Center, Hokkaido University, Japan

- Zhi-Pan Liu (Fudan Univ., China)
  Solid-liquid interface catalysis: particle size, shape and activity from first principles
- Leone Spiccia (Monash Univ., Australia)
  Nanoparticulate manganese oxides as water oxidation catalysts
- Takeo Yamaguchi (Tokyo Institute of Tech.)
  Systematic material development for PEMFCs catalysts, membranes and membrane electrode assemblies
- Henrik Grönbeck (Chalmers Univ. of Tech., Sweden)
  The active phase of palladium during methane oxidation: a combined DFT and surface x-ray diffraction study
- Yutaka Tai (AIST)
  Fabrication of effective Pt/FeOx interface leading to CO oxidation below room temperature

Registration Fee: Free

- Susumu Saito (Nagoya Univ.)
  Toward the construction of an interface between homogeneous and heterogeneous Catalysis
- Masatoshi Osawa (CRC, Hokkaido Univ.)
  Electrocatalytic oxidation of methanol, formaldehyde, and formic acid on Pt: a combined electrochemical and surface-enhanced infrared absorption (SEIRA) study
- Takashi Kamachi (Kyusyu Univ.)
  Combined theoretical and experimental approach to understand the reactivity of oxygen-dosed Pd nanoparticle catalyst for green organic syntheses in water
- Nobuo Kamiya (Osaka City Univ.)
  Structure and function of Mn_4CaO_5 cluster in oxygen-evolving photosystem II: towards development of novel catalysts
- Yoshihisa Sakata (Yamaguchi Univ.)
  Improvement of the the photocatalytic activity of Ga_2O_3 toward the overall splitting of H_2O
- Osamu Ishitani (Tokyo Institute of Tech.)
  Efficient photocatalytic reduction of CO_2 using metal complexes and their hybrids with light harvesting systems
- Ken-ichi Tanaka (Saitama Institute of Tech.)
  How does the surface become active as catalyst - From a viewpoint of materials and chemical reactions -

Organizing Committee: Dr. Kenichi Shimizu (Chair), Dr. Ryu Abe (Co-chair)
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