

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 Mn₄CaO₅ cluster in oxygen-evolving photosystem II: towards development of novel catalysts

■ Yoshihisa Sakata (Yamaguchi Univ.)

Improvement of the photocatalytic activity of Ga₂O₃ toward the overall splitting of H₂O

■ Osamu Ishitani (Tokyo Institute of Tech.)

Efficient photocatalytic reduction of CO₂ 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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