ミニ国際シンポジウム

電極溶液界面における表面増強赤外分光法の新しい展開

New Challenges of the Surface-enhanced Infrared Spectroscopy (SEIRAS)
at the Electrode / Solution Interface

Date: 14:00~20:00, March 17, 2016
Venue: Meeting Room BC, 4th Floor, SOUSEI Hall
     Hokkaido University, North 21 West 10, Sapporo, Japan
     (北海道大学・創成科学研究棟四階セミナー室 BC)
Contact: ye@cat.hokudai.ac.jp / Tel:011-706-9126
March 17

14:00~14:10 Asakura Kiyotaka (Director, Institute for Catalysis, Hokkaido University)
Opening Remarks

Chair: Ye Shen (Hokkaido University)

14:10~14:30 Cai Wenbin (Fudan University, China)
Boron doped palladium as the efficient catalyst for dehydrogenation of formic acid: what may interfacial infrared spectroscopy tell?

14:30~14:50 Kunimatsu Keiji (Yamanashi University, Japan)
Polarization modulated ATR-FTIR analysis of the hydration/dehydration processes of polymer electrolyte membranes at the gold surface

14:50~15:10 Morita Shigeaki (Osaka Electro-Communication University, Japan)
In Situ ATR-IR Spectroscopic Studies on Hydrated Polymers

15:10~15:30 Wei Zidong (Chongqing University, China), Advancement of Pt-fee catalysts for PEMFCs

15:30~15:50 Motobayashi Kenta (Nagoya Institute of Technology, Japan)
Interfacial Structure of Ionic Liquids near Metal Electrodes Affected by Potential and Additives: What Can Be Learned from SEIRAS?

15:50~16:10 Coffee Break
Chair, Motobayashi Kenta (Nagoya Institute of Technology, Japan)

16:10~16:30
**Jiang Yanxia** (Xiamen University, China)
Tuning Pt-skin to Ni-rich surface of Pt3Ni catalysts supported on porous carbon for enhanced oxygen reduction reaction and formic electrooxidation

16:30~16:50
**Yamanaka Toshiro** (Kyoto University, Japan)
Concentration change of ions in electrolyte in lithium ion batteries studied by in-situ microprobe Raman spectroscopy

16:50~17:10
**Inomata Tomohiko** (Nagoya Institute of Technology, Japan)
Sensing Microorganisms using Artificial Siderophore Complexes-modified Au Substrates

17:10~17:30
**Ye Shen** (Hokkaido University, Japan)
Nonlinear vibrational spectroscopy study on the interface.

17:30~17:50
**Ataka Kenichi** (Freie Universität Berlin, German)
Surface Enhanced Infrared Absorption Spectroscopy for biological studies

17:50
**Osawa Masatoshi** (Hokkaido University, Japan)
Closing Remarks

18:00~20:00
Poster session