JGP-Chem International Student Research Workshop

Date : 11/24/2016-11/25/2016
Location : A2-306, Katsura Campus, Kyoto University
Presentation : 20 min (Oral presentation + Discussion)

Program (Day 1, 11/24/2016)

Prg. #	Time	Presenter	Title
	10:00-10:10	Prof. Abe	Opening Remarks -Kyoto University-
	10:10-10:20	Prof. Shao-Horn	Opening Remarks -MIT-
1st Session (Chair: Yu Katayama. Chris Bachman)			
1-01	10:20-10:40	Yu Katayama	*In Situ* Observation of Surface Adsorbed Intermediate during CO_2 Reduction Reaction
1-02	10:40-11:00	Reshma Rao	The Role of Ru-redox in pH-dependent Oxygen Evolution on RuO_2
1-03	11:00-11:20	Yuto Miyahara	Oxygen Electrochemical Properties of Perovskite-Type Oxides in Alkaline Media
Break			
1-04	11:30-11:50	Kelsey Stoerzinger	Molecular Insight into Oxygen Electrocatalysis on Transition Metal Oxides
1-05	11:50-12:10	Hajime Suzuki	Z-scheme Water Splitting Using Tungstic Acid as an Oxygen-evolving Photocatalyst under Visible Light Irradiation
1-06	12:10-12:30	Jonathan Hwang	A $SrTiO_3$-GaAs photocathode for solar water-splitting
Lunch			
Lab Tour	13:30-14:30	Eguchi Lab	Catalysis, Solid oxide fuel cell, Polymer electrolyte fuel cell
		Abe (Ryu) Lab	Photocatalysis, Z-scheme water splitting, Photosynthesis
		Abe (Takeshi) Lab	Electrochemistry, Li-ion battery, Aqueous electrochemistry
		Sakka Lab	Analytical chemistry, Interfacial chemistry
		Kageyama Lab	Solid state chemistry, low temperature synthesis, Complex anion chemistry, High temperature superconductivity
Break			
Lecture (A2-304)	14:45-16:15	Prof. Shao-Horn	Fundamentals for the kinetics of chemical and electrochemical reactions
	16:30-18:00		Physical origin of surface reactivity and binding, and implications in (electro)catalysis

Program (Day 2, 11/25/2016)

Prg. #	Time	Presenter	Title
1st Session (Chair: Kelsey Stoerzinger, Yu Katayama)			
2-01	10:00-10:20	Nir Pour	Vanadium Redox on Carbon Electrodes
2-02	10:20-10:40	Seiji Katakura	Double-layer Capacitance and Interfacial Structure at Ionic Liquid | Electrode Interface Studied by Molecular Dynamics Simulation
2-03	10:40-11:00	Sokseiha Muy	Influence of Lattice Dynamics on Ionic Conductivity of Solid-State Li-Ion Conductors
2-04	11:00-11:20	Tang Ya	The Kissinger Method to Determine Hydride Lability in Oxyhydrides: Energy Barrier for H/D Exchange
2-05	11:20-11:40	John Bachman	Lattice Dynamics and Conductivity in Doped Lithium Phosphate
Lunch			
Lab Tour	13:20-14:30	Eguchi Lab	Catalysis, Solid oxide fuel cell, Polymer electrolyte fuel cell
		Abe (Ryu) Lab	Photocatalysis, Z-scheme water splitting, Photosynthesis
		Abe (Takeshi) Lab	Electrochemistry, Li-ion battery, Aqueous electrochemistry
		Sakka Lab	Analytical chemistry, Interfacial chemistry
		Kageyama Lab	Solid state chemistry, low temperature synthesis, Complex anion chemistry, High temperature superconductivity
Break			
Lecture (A2-304)	14:45-16:15	Prof. Shao-Horn	Examples of electrocatalysis such as hydrogen evolution kinetics and oxygen reduction
	16:30-18:00		Chemical physics of oxides and applications in water splitting and lithium ion storage
	18:00-18:10	Prof. Abe	Closing Remarks
Post-workshop discussion			