Electrochemistry of Metal Clusters and Nanoparticles

Chaired by: Flavio Maran

09:30 to 10:10 Keynote

Shaowei Chen (*Department of Chemistry and Biochemistry, University of California, Santa Cruz, USA*)

Electron-Transfer Chemistry of Functional Nanoparticles: An Interfacial Perspective

10:10 to 10:30 Invited

Tatsuya Tsukuda (*Department of Chemistry, The University of Tokyo, Tokyo, Japan*)

Gold Superatoms and Superatomic Molecules Protected by Ligands

10:30 to 10:45 Coffee Break

Chaired by: Dongil Lee and Gangli Wang

14:00 to 14:20

Flavio Maran (*Chemistry, University of Padova, Padova, Italy*), Sabrina Antonello, Tiziano Dainese

Electron Transfer Properties of Au25(*SR*)18 in Film and Solution

14:20 to 14:40

Dongil Lee (*Department of Chemistry, Yonsei University, Seoul, Korea*), Yongjin Lee, Ho Eun Seong, Sang Hyeok Im

Electrocatalytic Reduction of Carbon Dioxide on Metal Nanoclusters

14:40 to 15:00

Douglas Kauffman (*Research and Innovation Center, National Energy Technology Laboratory, Pittsburgh, USA*), Dominic Alfonso, De Nyago Tafen

Ligand-Protected, Au/Cu Nanoparticles for the Electrochemical CO_2 Reduction Reaction

15:00 to 15:20

Wei Chen (*State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, CAS, Changchun, China*),

Xiaohui Gao, Yizhong Lu, Minmin Liu, Jian Ju, Lei Li, Xiaokun Li

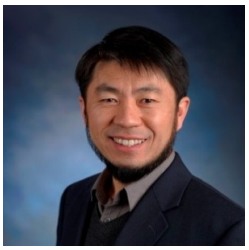
Metal Nanoclusters: Synthesis, Structures and Applications in Electroanalysis and Electrocatalysis

15:20 to 15:40

Jie He (*Department of Chemistry, University of Connecticut, Storrs, USA*)
Ultrasmall Au Nanocatalysts Supported on Nitrided Carbon Supports for CO_2 Electrochemical Reduction

15:40 to 16:20 Keynote

Gangli Wang (*Chemistry, Georgia State University, Atlanta, USA*), Tanyu Wang, Jonathan Padelford, Hedi Ma
Electro- Chemi- Luminescence of Au NanoClusters: EDTA Enhancement, Metal Ions Modulation and Mechanistic Improvements



16:20 to 16:40 Coffee Break

16:40 to 17:00 Invited

Yuichi Negishi (*Department of Applied Chemistry, Tokyo University of Science, Tokyo, Japan*)
Ligand Exchange Reactions in Thiolate-Protected Au25 Nanoclusters with Selenolates or Tellurolates:
Preferential Exchange Sites and Effects on Electronic Structure

17:00 to 17:20 Invited

David Cliffel (*Chemistry, Vanderbilt University, Nashville, USA*), David Crisostomo
Monolayer Protected Nanoparticles as SECM Mediators

17:20 to 17:40

Woojun Choi (*Department of Chemistry, Yonsei University, Seoul, Korea*), Kyuju Kwak, Minseok Kim, Yongjin Lee
Electrocatalytic Hydrogen Production Using Molecular-like Metal Nanoclusters

17:40 to 18:00

Nevena Ostojic (*Chemistry, University of Texas at Austin, Austin, USA*), Morgan Anderson, Richard Crooks E
lectrocatalytic Reduction of Oxygen on Metal Nanoparticles in the Presence and Absence of Interactions with

18:00 to 18:20

T. Jane Stockmann (*ITODYS, Université Paris Diderot, Paris, France*), Léo Angelé, Vitor Brasiliense, Catherine Combellas, Frédéric Kanou
Investigation of nanoparticle impacts at liquidlliquid, soft interfaces using ferrocene-assisted oxygen reduction reaction