

THE PARTNERSHIP FOR INTERNATIONAL RESEARCH AND EDUCATION

ELECTRON CHEMISTRY AND CATALYSIS AT INTERFACES

PIRE-ECCI项目是美国国家自然科学基金委、中国国家自然科学基金委和科技部联合资助的为期五年的科研项目，旨在将前沿科学研究和研究生教育结合起来，在促进学术交流的同时为中美学生提供国际间跨学科的交流合作机会和历练。本次会议将在中国著名的旅游城市---杭州举办，并邀请了诸多国际专家学者参与本次会议。会议日程安排如下：

June 27 (Friday):

Chair: Dongyuan Zhao	8:50-9:00	Dongyuan Zhao Susannah Scott	Opening remarks
	9:00-9:20	Xiaogang Peng (Zhejiang Univ.)	Surface Controlled Excited States in Semiconductor Nanocrystals
	9:20-9:40	Susannah Scott (UCSB)	Kinetic Control of Autocatalytic Gold Nanoparticle Formation
	9:40-10:00	Nanfeng Zheng (Xiamen Univ.)	Surface and Interface Chemistry of Metal Nanomaterials
	10:00-10:20	Peter Ford (UCSB)	Nanoparticle strategies for photo chemical drug delivery
	10:20-10:40	Xiao-Chun Zhou (SINANO)	Nanometer Reaction Localization Uncovers Diverse Reactivity Patterns Within a Single Metal Nanocatalyst
10:40-11:00	coffee break	10:40-11:00	coffee break
Chair: Susannah Scott	11:00-11:20	Anhui Lu (Dalian Inst. of Technology)	Porous carbon sheets for energy storage
	11:20-11:40	Matthias Scheffler (UCSB)	Big Data of Materials Science from First Principles -- Critical Next Steps
	11:40-12:00	Dongyuan Zhao (Fudan Univ.)	Ordered Mesoporous Materials with Functional Core-Shell Structures
	12:00-12:20	Liwei Chen (SINANO)	Charge transfer kinetics in Lithium-Sulfur batteries
12:20-14:00		Lunch	

June 28 (Saturday)

Chair: Xueming Yang	8:50-9:10	Xueming Yang (Dalian Inst. Chem. Phys)	Elementary Processes of Methanol and Water Photocatalysis on TiO ₂ (110)
	9:10-9:30	Daniel Little (UCSB)	Electron Transfer using Triarylimidazole and Phenanthroimidazole Mediators
	9:30-9:50	Jie Fan (Zhejiang Univ.)	A New Photo-Cyanation Strategy -Derived Cyanide-Patterned Pt/Carbon Electrocatalyst
	9:50-10:10	Michael Gordon (UCSB)	Microplasma spray deposition of nanostructured materials for catalytic, magnetic, and photonic applications
	10:10-10:30	Jin-Ping Zhang (SINANO)	3D TEM-Tomography of Porous Materials

ChairChair: Xiaogang Peng	14:00-14:20	Galen Stucky (UCSB)	Synthetic design and applications of macro/mesoporous nitrides and carbides
	14:20-14:40	Qiang Fu (Dalian Inst. Chem. Phys.)	On the interface confinement effect in oxide-on-metal inverse catalysts
	14:40-15:00	Max Tirtowidjojo (Dow)	Adsorbate based Kinetic Modeling of Ethylene Oxide Production
	15:00-15:20	Chengchu Zeng (Beijing University of Technology)	Electrochemical synthesis of heterocycles mediated by iodine anion
	15:20-15:40	Wei Chen (SINANO)	Functional and Smart Nanocomposites
	15:40-16:00	Coffee break	
Chair: Galen Stucky	16:00-16:20	Xuhui Sun (Soochow Univ.)	Hematite nanostructures for high efficient solar water splitting
	16:20-16:40	Trevor Hayton (UCSB)	New Opportunities in Uranyl Oxo Functionalization
	16:40-17:00	Feng Wang (Dalian Inst. Chem. Phys.)	Organic Synthesis over Nanostructured Ceria Catalysts
	17:00-17:20	Ying Wan (Shanghai Normal Univ.)	Efficient Heterogeneous Palladium and Gold Catalysts with Enhanced Activity and Selectivity in Water-mediated Rections
	17:20-17:40	Xin-Heng Li (SINANO)	Manipulating nanorod tips for co-catalysts selective deposition and enhanced charge separation
	17:40-18:00	Jianwei Fan (Tongji Univ.)	Functionalized Ordered Mesoporous Silica-Pol vinylidene Fluoride (OMS-PVDF) Membranes via Non-solvent Induced Phase Separation for Effective and Recyclable Removal of Water Contaminants

10:30-10:50		Coffee break	
Chair: Peter Ford	10:50-11:10	Hongjun Fan (Dalian Inst. Chem. Phys)	Photo-dissociation of water and methanol on TiO ₂ (110) surface
	11:10-11:30	Yaofeng Chen (Shanghai Institute of Organic Chemistry)	Scandium Terminal Imido Complexes: Synthesis, Structure and Reactivity
	11:30-11:50	Yong Wang (Zhejiang Univ.)	Design of Sustainable Carbon Nano Materials based on Biomass
	11:50-12:30	Futures of PIRE projects and collaborations in research and education 1. Susannah Scott and Dongyuan Zhao: Outline of the CNSF-supported PIRE II 2. Thoughts & suggestions from US & Chinese principle investigators (to be announced or free discussions)	

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- University of California
- Fudan University
- Zhejiang University
- Dalian Institute of Chemical Physics
- Suzhou Institute of Nano-tech and Nano-bionics (SINANO)
- Dow Chemicals

Conference Chair: Dongyuan Zhao
Co-chair: Jie Fan
Organized by Fudan University and Zhejiang University

Location: Jiao8-515
会议地点：浙大玉泉校区教八-515