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ACS全球科技研讨会：分子科学前沿

CONFIRMED SPEAKERS

Scott Anderson, University of Utah, USA

Jillian Buriak, University of Alberta, Canada

Cynthia J. Burrows, University of Utah, USA

Jinwoo Cheon, Yonsei University, South Korea

Andrew I. Cooper, University of Liverpool, United Kingdom

Kuilong Ding, Shanghai Institute of Organic Chemistry, China

Song Gao, Peking University, China

Buxing Han, Institute of Chemistry, Chinese Academy of Sciences, China

Luhua Lai, Peking University, China

Yongfang Li, Institute of Chemistry, Chinese Academy of Sciences, China

Eiichi Nakamura, University of Tokyo, Japan

Vincent Rotello, University of Massachusetts Amherst, USA

Peter J. Stang, University of Utah, USA

Weihong Tan, Hunan University, China and University of Florida, USA

He Tian, East China University of Science and Technology, China

Li-Jun Wan, University of Science and Technology of China/ICCAS, China

Helma Wennemers, ETH Zürich, Switzerland

Vivian Yam, University of Hong Kong, China

Peidong Yang, University of California, Berkeley, USA

Xueming Yang, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China

Jihong Yu, Jilin University, China

Xi Zhang, Tsinghua University, China

Yuliang Zhao, National Center for Nanoscience and Technology, China

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FUNCTIONAL MOLECULAR MATERIALS

Vivian Yam, University of Hong Kong, China
From Discrete Metal Complexes and Coordination Motifs to Supramolecular Assembly, Nanostructures and Functions

Song Gao, Peking University, China
Ferroelectric Molecular Magnets and Single-Ion Magnets

He Tian, East China University of Science and Technology, China
Stimuli-Responsive Functional Supramolecular Systems

Jihong Yu, Jilin University, China
Designed Construction of Zeolitic Nanoporous Materials

MOLECULAR CATALYSIS AND SELECTIVE SYNTHESIS

Eiichi Nakamura, University of Tokyo, Japan
Iron Catalysis for Organic Synthesis

Kuiling Ding, Shanghai Institute of Organic Chemistry, China
Cooperative Catalysis in Asymmetric Synthesis and CO₂ Transformation

Xueming Yang, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
Photocatalytic Water Dissociation on Oxide Surfaces

Qi-Lin Zhou, Nankai University, China
Privileged Chiral Spiro Catalysts

Helma Wennemers, ETH Zürich, Switzerland
Asymmetric Catalysis with Peptides and Other Bioinspired Catalysts

THE CHEMISTRY-BIOLOGY INTERFACE

Luhua Lai, Peking University, China
Diverse Ways to Control Biological Networks

Weihong Tan, Hunan University, China and University of Florida, USA
DNA Nanostructures and Networks for Molecular Medicine

Cynthia J. Burrows, University of Utah, USA
Interrogating DNA Structure and Folding Dynamics with a Protein Nanopore

Yuliang Zhao, National Center for Nanoscience and Technology, China
Molecular Mechanism Analyses of Toxicities of Nanomaterial & Nanomedicine: Nano-Bio Interface Interactions

Vincent Rotello, University of Massachusetts Amherst, USA
Interfacing Nanomaterials with Biology: Applications in Therapeutics and Diagnostics

SUPRAMOLECULAR SELF-ASSEMBLY

Andrew I. Cooper, University of Liverpool, United Kingdom
Designing Function in Porous Molecular Solids

Jillian Buriak, University of Alberta, Canada
Nanopatterning of Semiconductor Surfaces with Self-Assembling Block Copolymers: Polymers and Plasmonics

Peter J. Stang, University of Utah, USA
Abiological Self-Assembly: Predesigned Metallacycles and Metallacages via Coordination

Li-Jun Wan, University of Science and Technology of China/ICCAS, China
Surface Molecular-Assembly Engineering: Method and STM imaging

Xi Zhang, Tsinghua University, China
Supramolecular Free Radicals

SUSTAINABLE CHEMISTRY AND ENERGY

Peidong Yang, University of California, Berkeley, USA
CO₂ + H₂O + Sunlight --> Chemical Fuels + O₂

Scott Anderson, University of Utah, USA
Chemistry of and Catalysis by Nanoparticles

Jinwoo Cheon, Yonsei University, South Korea
Magnetic nanoparticles: a precision tool for cell imaging and activations

Yongfang Li, Institute of Chemistry, Chinese Academy of Sciences, China
Two-Dimension-Conjugated Polymer Donor Materials for Polymer Solar Cells

Buxing Han, Institute of Chemistry, Chinese Academy of Sciences, China
Conversion of CO₂ and Biomass into Chemicals and Energy Materials