

Title:

Advanced Functional Materials and Multi-scale Intelligent Computation

Abstract:

Advanced functional materials are vital to modern electronics and energy technology. The relevant studies are always focusing on basic scientific research and industrialization. Computational Materials Science as an emerging discipline is deemed to a greater changer of R&D rules in advanced materials for the future, which will greatly shorten the exploration, development as well as preparation period, and guide the methodology innovation for high performance materials.

Scope and Topics:

This workshop is specified in advanced functional materials and multi-scale intelligent computation fields. We will review the flourishing results in the intelligence computation and information science, and discuss the future direction of Computational Materials Science to promote the application process of advanced materials and multi-scale intelligent computation. Novel and original research contributions, as well as significant work-in-progress work related to advanced functional materials, multi-scale computation, intelligent computation and electronic information materials are encouraged. Papers can be from any of the following areas, but not limited to:

- ✧ Computational Materials and Interfacial Science
- ✧ Organic/inorganic Hybrid Semiconducting Materials
- ✧ Eco- and Renewable Energy Materials
- ✧ Multi-scale Intelligent Computation
- ✧ Intelligent Computation
- ✧ Electronic Information Materials
- ✧ Big Data

Program Committee Chairs:

Jing Li, Rutgers University, USA

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Jing Li is a Distinguished Professor in the Department of Chemistry and Chemical Biology at Rutgers University. She received her Ph.D. degree from Cornell University in January 1990 under the guidance of Professor Roald Hoffmann. After two years of postdoctoral work with Professor Francis J. DiSalvo (Cornell University), she joined the chemistry faculty at Rutgers University in 1991 as Assistant Professor. She was promoted to Associate Professor in 1996, to Full Professor in 1999, and to Distinguished Professor in 2006. Her research primarily focuses on the development of functional materials that are both fundamentally important and potentially useful

for clean and renewable energy applications, including metal-organic frameworks and inorganic-organic hybrid semiconductors. She has published more than 280 research articles, book chapters, and invited reviews. She currently serves as Associate Editor for an ACS journal, *Crystal Growth & Design*. Her recent awards and honors include the first-ever Clean Energy Education and Empowerment (C3E) Award for women (U.S. Department of Energy) in 2012 and a Humboldt Research Award (Alexander von Humboldt Foundation) in the same year. She was elected as a Fellow of the American Association for the Advancement of Science (AAAS) in 2012 and became a Fellow of the Royal Society of Chemistry (RSC) in 2015. She was recognized as a "Highly Cited Researcher" by Thomson Reuters in both 2015 and 2016.

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Prof. Li Manrong, graduated from the Northwest University, Xi'an, China, in 1999 with a B.Sc degree in physical chemistry, received the M.Sc degree in Xiamen University, China, in 2002, and the Ph.D degree in engineering from Shanghai Institute of Ceramics, Chinese Academy of Sciences, in 2005. From August 2005 to August 2008, he was with LG Chem Power Inc., Korea. October 2008 to October 2010, he was with Liverpool University, UK, where he was a Postdoctoral Fellow. December 2010 to May 2016, he was with Rutgers University, USA, first as a Postdoctoral Fellow and then a Research Fellow. At present, he is a "Thousand Talents Plan" Scholar Professor in the School of Chemistry, Sun Yat-sen University.

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