The 4th Materials Chemistry Frontiers International Symposium

Hardin Hall, Rebecca Crown Center, Northwestern University—Evanston
05 December 2019

Time	Event	Session Chair
8:55	**Opening remarks** Jiaxing Huang, *Northwestern University*	
9:00	**Integrated Electromagnetic Wave Spectroscopy Techniques: A Powerful Tool for Optoelectronic and Biochemical Materials** Shu Seki, *Kyoto University*	**Jiaxing Huang** *Northwestern University*
9:30	**Magnesium for Nanoplasmonics** Emilie Ringe, *University of Cambridge*	
10:00	**Chemistry for the Second Quantum Revolution** Danna Freedman, *Northwestern University*	
10:30	**AM Break**	
11:00	**Spherical Nucleic Acids with Cationic Backbone Modifications** Katherine Bujold, *Northwestern University*	**Shu Seki** *Kyoto University*
11:30	**Design for Stimuli-Responsive Luminescent Chromic Materials Based on Flexible Boron "Element-Blocks"** Kazuo Tanaka, *Kyoto University*	
12:00	**Reactivity-property Relationships in Photocontrolled Polymer Networks** Julia Kalow, *Northwestern University*	
12:30	**Lunch**	
13:30	**Crosslinked Organosilica BTBT Derivatives for Robust Transistors** Guillaume Wantz, *University of Bordeaux*	**Emilie Ringe** *University of Cambridge*
14:00	**Molecular Nanocarbons: Self-Assembly, Metal Binding, and Multi-Electron Charging** Marina A. Petrukhina, *University at Albany at New York*	
14:30	**Molecular Engineering of Two-Dimensional Organic-Inorganic Hybrid Perovskites** Letian Dou, *Purdue University*	
15:00	**PM Break**	
15:30	**Creating High-Performance ElectroCatalysts through Surface Engineering** Yu Huang, *UCLA*	**Jiaxing Huang** *Northwestern University*
16:00	**Dynamics of Surface Structures in Heterogeneous Catalysis and Electrocatalysis** Hong Yang, *University of Illinois at Urbana-Champaign*	
16:30	**Chemical and Structural Manipulation of Graphene and other 2D Nanomaterials for Electronics and Optoelectronics** Vikas Berry, *University of Illinois at Chicago*	
17:00	**Closing remarks** Jiaxing Huang, *Northwestern University*	