

## Aggregation Behavior and Application of Surface Active Ionic Liquid



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**Melcher Hall - Room 180 (Business School)**

### LECTURE ABSTRACT

Ionic liquids (ILs) with long alkyl chains are regarded as surface active ionic liquids (SAILs), which combine the excellent physicochemical properties of ILs and surfactants. Based on the designability of SAILs, a variety of hierarchically complex architectures with controllable functions can be constructed by regulating noncovalent interactions between molecules. It will be expected to achieve the potential application of SAILs in ion-conduction and the preparation of nanomaterials.

### SPEAKER BIOSKETCH

Dr. Liqiang Zheng is a full professor in the School of Chemistry and Chemical Engineering at Shandong University, deputy director of the Key Laboratory of Colloid and Interface Chemistry in the Ministry of Education. Prof. Liqiang Zheng graduated from the Department of Chemistry, Shandong University with a bachelor's degree in 1985 and a master's degree in 1988. In 1993, he received the doctor of science degree from Lanzhou Institute of Chemical Physics. Then, he taught in the Department of Chemistry, Shandong University. During April 1996 and April 1999, he postdoctoral studied at the Tsukuba Institute of Industrial Technology Research in Japan. Prof. Liqiang Zheng is mainly engaged in the aggregation behavior of SAILs and their applications in ion-conduction, preparation of nanomaterials and so on. He has published articles in many of the field's most prestigious journals, including *Angew. Chem. Int. Ed.*, *J. Mater. Chem. A*, *ACS Appl. Mater. Inter.*, *Chem. Commun.*, *Chem. Eur. J.* and *Langmuir*. At present, Prof. Liqiang Zheng has been invited as a reviewer by more than 10 famous international academic journals such as *Langmuir* and *J. Phys. Chem. B&C*.

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