



北京理工大学

Beijing Institute of Technology

# “21世纪学科前沿”系列学术报告

## Stimuli-responsive materials from polymerized ionic liquids

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时间: 6月27日(星期二)下午15:30

地点: 良乡生态楼8层明理厅



### 报告简介:

Imidazolium-based ionic liquid surfactant monomers (surfmers) are stimuli-responsive to select anions and solvents, and provide basis for many useful polymers that also are stimuli-responsive as well as highly useful dispersion stabilizers. We illustrate the synthesis of various homopolymers, diblock copolymers, triblock copolymers, random copolymers and nanolatexes that exhibit LCST, reversible nanoparticle formation, stimuli-responsive dewetting, osmotic brush stabilization by adsorption from solution, stimuli-responsive destabilization and controlled coatings of submicron graphene platelets, and stimuli-responsive phase transfer. We also illustrate the first example of reversible colloidal crystal crystallization based on enthalpic rather than entropic driven free energy changes in a lyotropic nanogel system.

**欢迎各位老师同学参加!**

主办: 研究生院

承办: 化学与化工学院