

FRONTIERS IN MATERIALS SCIENCE SEMINAR

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1:30PM

Ionic liquids for syntheses of sol-gel and low-dimensional materials

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Ionic systems consisting of salts that are liquidus at ambient temperatures can act as solvents for a broad spectrum of chemical species. These ionic liquids are attracting increased attention worldwide. A very unique intrinsic property of these liquids is that they consist only of ions and that they can be made hydrophobic! The novel dual property of these ionic liquids makes them efficient solvents for both inorganic and organic species. The unique solvation environment of these ionic liquids provides new reaction media for controlling formation of polymeric materials and tailoring morphologies of advanced materials. Challenges and opportunities in this research area will be discussed.

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