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In further studies, and in an effort to overcome drawbacks associated with the hygroscopic nature of the previously employed ILs [2010JCC(12)137], the Friedländer synthesis of quinoline derivatives type 3/4 was achieved in 85%–98% yield (13 examples), with 1–8 h reaction times, mediated by a task-specific ionic liquid (TSIL) a water tolerant-acidic SO<sub>3</sub>H-functionalized IL as catalyst, in water as solvent, Scheme 2. Additionally, the TSIL catalyst could be recycled for five times

...

*Ionic liquid-mediated synthesis and functionalization of ...*

New ionic liquid-mediated molecularly imprinted polymers (ILMIPs) for phthalate esters were developed in this study by the situ thermal polymerization method using methacrylic acid as a functional mo...

*Synthesis and Evaluation of Ionic Liquid-Mediated ...*

A procedure for the synthesis of multifunctional europium(III)-doped gadolinium(III) fluoride (Eu:GdF<sub>3</sub>) nanoparticles (?85 nm) with quasispherical shape by precipitation at 120 °C from diethylene glycol solutions containing lanthanide chlorides and an ionic liquid (1-Butyl,

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2-methylimidazolium tetrafluoroborate) as fluoride source has been developed.

## *Ionic Liquid Mediated Synthesis and Surface Modification ...*

A procedure for the synthesis of multifunctional europium(III)-doped gadolinium(III) fluoride (Eu:GdF<sub>3</sub>) nanoparticles (~85 nm) with quasispherical shape by precipitation at 120 °C from diethylene glycol solutions containing lanthanide chlorides and an ionic liquid (1-Butyl, 2-methylimidazolium tetrafluoroborate) as fluoride source has been developed.

## *Ionic Liquid Mediated Synthesis and Surface Modification ...*

Poly(ethylene glycol)-block-polystyrene (PEG-b-PS) was synthesized by the atom transfer radical polymerization of styrene using PEG-Br as the macroinitiator in an ionic liquid, 1-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF<sub>6</sub>]). CuBr and 2,2'-bipyridyl were used as the catalyst and ligand, respectively. The structure, composition, and molecular weight of the PEG-b-PS copolymer ...

## *Ionic liquid-mediated synthesis and self-assembly of poly ...*

Imidazole-functionalized ionic liquids were prepared for the synthesis of 4,4'-MDI, and their thermal performances were evaluated by TGA. We found that in comparison with other imidazole-functionalized ionic liquids, 1-ethoxycarbonylmethyl-3-methylimidazolium tetrafluoroborate ([EAmim]BF<sub>4</sub>) exhibited preferable thermal activity for the decomposition of 4,4'-methylenediphenyl dimethylcarbamate (4,4'-MDC).

## *Ionic liquid-mediated solvothermal synthesis of 4,4 ...*

A simple, highly efficient and environmentally friendly method for the synthesis 3-substituted pyrazoles by one pot

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condensation reaction of substituted cinnamaldehydes and tosylhydrazine in ionic liquid, 1-Butyl-3-methylimidazolium tetrafluoroborate. This method was developed by screening of different imidazolium-based ionic liquids.

## *Ionic Liquid Mediated Rapid Synthesis of 3-Substituted ...*

Abstract Promoted catalytic reaction between methanol and CO<sub>2</sub> for dimethyl carbonate (DMC) synthesis is conducted over K<sub>2</sub>CO<sub>3</sub>/CH<sub>3</sub>I catalyst in the presence of ionic liquid under microwave irradiation. The effect of ionic liquids incorporated with microwave irradiation on the yield of DMC is investigated.

## *Ionic liquid mediated CO<sub>2</sub> activation for DMC synthesis ...*

Ionic liquid is defined as a salt with melting point below the boiling point of water. Ionic liquids are known by several different names like neoteric solvents, designer solvents, ionic fluids, and molten salts. Most of the ionic liquids are composed of organic cation and inorganic anions.

## *Ionic Liquids: Synthesis and Applications in Catalysis*

of ionic liquids can be envisioned by simple combination of different cations and anions. The estimated number of single ILs is 18 which further increases if we include binary and ternary ionic liquids. Because of their tailor-made nature the ionic liquids find applications as storage media for toxic gases, catalysts/solvents in organic syntheses, performance

## *Review Article Ionic Liquids: Synthesis and Applications ...*

The system relies on an ionic liquid electrolyte to lower the energy of the (CO<sub>2</sub>) – intermediate, most likely by complexation, and thereby lower the initial reduction barrier. The silver cathode...

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*Ionic Liquid–Mediated Selective Conversion of CO<sub>2</sub> to CO at*

...

Protic ionic liquids are formed via a proton transfer from an acid to a base. In contrast to other ionic liquids, which generally are formed through a sequence of synthesis steps, protic ionic liquids can be created more easily by simply mixing the acid and base.

*Ionic liquid - Wikipedia*

Synthesis and Evaluation of Ionic Liquid–Mediated Molecularly Imprinted Polymer for Highly Selective Recognition of Dibutyl Phthalate from Liquor Samples  
XIAOMING ZHANG School of the Environment and Safety Engineering, Jiangsu University, Zhenjiang 212013, People's Republic of China  
WENMING YANG

*Synthesis and Evaluation of Ionic Liquid–Mediated ...*

This review provides an introduction to ionic liquids and aims specifically to describe diverse, recent applications of ILs in three main areas of organic synthesis: single-step chemical reactions in ILs, multistep reactions involving IL-phase synthesis, and multistep reactions in which ILs were used as reaction media for organic syntheses.

*Ionic Liquids for Green Organic Synthesis | Bentham Science*

Abstract Piperidine- and imidazole-based dicationic ionic liquids have been developed for the synthesis of zeolite Beta. Hierarchical Beta has a larger surface area and pore volume than conventional Beta. Beta derived from a dicationic ionic liquid exhibited remarkably higher catalytic activity than the conventional Beta.

*Synthesis of Dicationic Ionic Liquids and their ...*

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## *CONVENTIONAL ORGANIC SOLVENTS AND IONIC LIQUID MEDIATED ...*

The ionic liquid acts as a templating agent for particle growth. The CeO<sub>2</sub>-TiO<sub>2</sub> and TiO<sub>2</sub> photocatalysts were also synthesized without any ionic liquid for comparison. Calcination was conducted on...

## *CeO<sub>2</sub>-TiO<sub>2</sub> Photocatalyst: Ionic Liquid-Mediated Synthesis ...*

Many of the reported chiral ionic liquids have been used as chiral agents for asymmetric organic synthesis, e.g., aldol reaction, Baylis-Hillman reaction, and Michael addition [2-8]. This review provides an overview of the asymmetric Michael addition mediated by chiral ionic liquids.

## *Asymmetric Michael Addition Mediated by Chiral Ionic Liquids*

Ionic Liquid Mediated Synthesis And Self Assembly Of Poly of ionic liquids can be envisioned by simple combination of different cations and anions. The estimated number of single ILs is 18 which further increases if we include binary and ternary ionic liquids. Because of their tailor-made

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