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In further studies, and in an effort to
overcome drawbacks associated with the
hygroscopic nature of the previously

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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 SO₃H-functionalized IL as catalyst, in water as solvent, Scheme 2. Additionally, the

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TSIL catalyst could be recycled for five times

...

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New ionic liquid mediated molecularly imprinted polymers (ILMIPs) for phthalate esters were developed in this study by the

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situ thermal polymerization method using methacrylic acid as a functional mo...

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A procedure for the synthesis of
multifunctional europium(III)-doped
gadolinium(III) fluoride (Eu:GdF₃)

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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.

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Ionic Liquid Mediated Synthesis and Surface
Modification ...

A procedure for the synthesis of
multifunctional europium(III)-doped
gadolinium(III) fluoride (Eu:GdF₃)
nanoparticles (85 nm) with quasispherical
shape by precipitation at 120 ° C from
diethylene glycol solutions containing

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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

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(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][PF₆]). CuBr and 2,2'-bipyridyl were used as the catalyst and ligand, respectively. The structure, composition, and molecular weight of the

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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

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comparison with other imidazole-
functionalized ionic liquids, 1-ethoxycarbon
ylmethyl-3-methylimidazolium
tetrafluoroborate ([EAmim]BF₄) exhibited
preferable thermal activity for the
decomposition of 4,4'-methylenediphenyl
dimethylcarbamate (4,4'-MDC).

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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 condensation reaction of substituted cinnamaldehydes and tosylhydrazine in ionic liquid, 1-Butyl-3-methylimidazolium

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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 CO₂ for dimethyl

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carbonate (DMC) synthesis is conducted over K_2CO_3/CH_3I 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_2 activation for

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DMC synthesis ...
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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.

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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-

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made nature the ionic liquids and
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

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electrolyte to lower the energy of the (CO₂)
– intermediate, most likely by
complexation, and thereby lower the initial
reduction barrier. The silver cathode...

Ionic Liquid – Mediated Selective
Conversion of CO₂ to CO at ...

Protic ionic liquids are formed via a proton

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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

Page 25/35

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Synthesis and Evaluation of Ionic
Liquid – Mediated Molecularly Imprinted
Polymer for Highly Selective Recognition of
Dibutyl Phthalate from Liquor Samples
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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-

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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

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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.

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2.4 Ionic liquid mediated organic synthesis

14 2.4.1 The role of medicinal chemistry in
Alzheimer ' s disease 16 2.5 Alzheimer ' s

disease 17 2.5.1 Fact and figures 17 2.5.2

Clinical symptoms of Alzheimer ' s disease

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17 2.5.3 Pathology of Alzheimer 's disease
17 2.5.3.1 Amyloid hypothesis 18 2.5.3.2
Tau hypothesis 19

CONVENTIONAL ORGANIC
SOLVENTS AND IONIC LIQUID
MEDIATED ...

The ionic liquid acts as a templating agent

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for particle growth. The CeO₂-TiO₂ and TiO₂ photocatalysts were also synthesized without any ionic liquid for comparison. Calcination was conducted on...

CeO₂-TiO₂ Photocatalyst: Ionic Liquid-Mediated Synthesis ...

Many of the reported chiral ionic liquids

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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.

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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

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