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Ionic Liquids: Synthesis and Applications in Catalysis
Ionic Liquid Mediated Ugi/SN2 Cyclization: Synthesis of 1,2,3-Triazole Containing Novel 2,5-Diketopiperazines † M. V. Basavanag Unnamatla 1,2,* , Marco A. García-Eleno 1,2 and Erick

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Ionic Liquid Mediated Synthesis of

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ionic liquid formed is basic (); however, the molar excess of $AlCl_3$ leads to the formation of an acidic ionic liquid (). When both $[emim]Cl$ and $AlCl_3$ are present in equimolar quantities, it results in the formation of neutral ionic

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liquids. Apart from AlCl_3 , other Lewis acids used are AlEtCl_2 [], BCl_3 [], CuCl [], and InCl_3 [] to mention a few.

Ionic Liquid Mediated Ugi/SN2 Cyclization: Synthesis of 1 ...
A task-specific ionic liquid,

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[bmim]OH, has been introduced as a catalyst and as a reaction medium in Michael addition. Very interestingly, although the addition to α, β -unsaturated ketones proceeds in the usual way, giving the monoaddition products, this ionic liquid always drives the

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reaction of open-chain 1,3-dicarbonyl compounds with α,β -unsaturated esters and nitriles toward bis ...

Ionic liquids for nano- and microstructures preparation ...
Two topics using ILs for

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enzymatic reactions have been reviewed from the standpoint of biocatalyst mediating organic synthesis; the first is "Biocatalysis in Ionic Liquids" which includes various types of biocatalytic reactions in ILs (section 2): (1) recent examples of lipase-

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mediated reactions using ILs as
reaction media for biodiesel oil
production and for sugar ester
production, (2 ...

Ionic Liquids as Tool to Improve
Enzymatic Organic Synthesis.

@article{osti_1265467, title =

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{Ionic liquid-mediated synthesis of meso-scale porous lanthanum-transition-metal perovskites with high CO oxidation performance},
author = {Lu, Hanfeng and Zhang, Pengfei and Qiao, Zhen-An and Zhang, Jinshui and Zhu, Huiyuan and Chen, Jihua and Chen, Yinfei

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and Dai, Sheng}, abstractNote =
{ Lanthanum-transition-metal
perovskites with robust meso-
scale porous ...

Review Article Ionic Liquids:
Synthesis and Applications ...
A hybrid nanocomposite of

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magnetic nanoparticles (Fe_3O_4) and poly(2-hydroxyethyl methacrylate)-block-poly(methyl methacrylate) (PHEMA-b-PMMA) was synthesized successfully by the atom transfer radical polymerization (ATRP) in an ionic liquid (IL),

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1-butyl-3-methylimidazolium hexafluorophosphate ([Bmim]PF₆). Fe₃O₄ nanoparticles were first surface-modified with the initiator, 2-bromoisobutyryl ...

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Synthesis of 3-Substituted ...

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

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ionic liquid exhibited remarkably higher catalytic activity than the conventional Beta.

Ionic liquid-mediated synthesis and functionalization of ...

Poly(ethylene glycol)-block-polystyrene (PEG-b-PS) was

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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

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catalyst and ligand, respectively.
The structure, composition, and
molecular weight of the PEG-b-PS
copolymer ...

Ionic Liquid – Mediated Selective
Conversion of CO₂ to CO at ...
Thus, combining the advantages of

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ionic liquids and ray-mediated methods resulted in the development of new ionic liquid-assisted synthesis routes. One of the recently proposed approaches of semiconductor particles preparation is based on the adsorption of semiconductor

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precursor molecules at the surface
of micelles built of ionic liquid
molecules playing a role of a soft
template for growing ...

Ionic Liquid Mediated Synthesis
And

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Ionic Liquid Mediated In Situ
Synthesis of Ru Nanoparticles for
CO₂ Hydrogenation Reaction.

Catalysis Letters 2017, 147 (4) ,
1051-1060. DOI:

10.1007/s10562-017-1995-7.

Honglan Li, Guixia Liu, Jinxian
Wang, Xiangting Dong, Wensheng

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Synthesis and Evaluation of Ionic
Liquid – Mediated ...

Ionic liquid mediated synthesis,
reactions, and insecticidal activity
of 1-[(1H-benzoimidazol-2-yl)ami
no]spiro[azetidine-4,4 -[4

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H]chroman]-2-ones Kanti

SHARMA, Renuka JAIN

Department of Chemistry,

University of Rajasthan, Jaipur,

302 004, India Received:

22.06.2012 • Accepted:

23.01.2013 • Published Online:

17.04.2013 • Printed: 13.05 ...

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Ionic Liquid Mediated Synthesis and Surface Modification ...

In further studies, and in an effort to overcome drawbacks associated with the hygroscopic nature of the previously employed ILs [2010JCC(12)137], the

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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 ...

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Ionic Liquid as Catalyst and Reaction Medium. The Dramatic ...
Ionic Liquid Mediated Rapid Synthesis of 3-Subtituted Pyrazoles Chandrashekhar G Devkate1*, Khandu D Warad2, Mahendra B Bhalerao2, Digambar

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Chemistry, Indraraj Arts,
Commerce and Science College
Sillod, Aurangabad, India

Ionic liquid mediated synthesis,
reactions, and ...

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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-methylimidaz

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olium tetrafluoroborate
([EAmim]BF₄) exhibited
preferable thermal activity for the
decomposition of
4,4'-methylenediphenyl ...

Synthesis of Dicationic Ionic
Liquids and their ...

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Electroreduction of carbon dioxide (CO₂)—a key component of artificial photosynthesis—has largely been stymied by the impractically high overpotentials necessary to drive the process. We report an electrocatalytic system that reduces CO₂ to

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carbon monoxide (CO) at overpotentials below 0.2 volt. The system relies on an ionic liquid electrolyte to lower the energy of the (CO₂ ...

Ionic liquids synthesis and applications: An overview ...

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Ionic liquids have emerged as an environmentally friendly alternative to the volatile organic solvents. Being designer solvents, they can be modulated to suit the reaction conditions, therefore earning the name “ task specific ionic liquids. ” Though primarily

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used as solvents, they are now finding applications in various fields like catalysis, electrochemistry, spectroscopy, and material ...

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

Access PDF Ionic Liquid Mediated Synthesis And Self Assembly Of Poly

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...

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Ionic liquid mediated synthesis of poly(2-hydroxyethyl ...

5.2. Ultrasound-assisted reactions for ionic liquids synthesis. Over the last few decades, the use of ultrasound-assisted methods has gained substantial attention from the chemical and pharma industries

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for the synthesis of catalysts, biofuels production, heterocyclic intermediates, compounds of medicine and many more [, ,].

Ionic liquid-mediated solvothermal synthesis of 4,4 ...
(2009). Ionic Liquid Mediated

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Synthesis of 5-Halouracil
Nucleosides: Key Precursors for
Potential Antiviral Drugs.
Nucleosides, Nucleotides &
Nucleic Acids: Vol. 28 ...

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