

Arsalan Mirjafari

List of Publications by Year in descending order

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52
papers

960
citations

471061

17
h-index

476904

29
g-index

54
all docs

54
docs citations

54
times ranked

1276
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of water on CO ₂ capture by amino acid ionic liquids. <i>Environmental Chemistry Letters</i> , 2014, 12, 201-208.	8.3	81
2	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. <i>Green Chemistry</i> , 2011, 13, 1527.	4.6	73
3	Ionic liquids and poly(ionic liquid)s for 3D printing – A focused mini-review. <i>European Polymer Journal</i> , 2018, 108, 390-398.	2.6	73
4	Ionic liquid syntheses via click chemistry: expeditious routes toward versatile functional materials. <i>Chemical Communications</i> , 2018, 54, 2944-2961.	2.2	52
5	Microwave-Promoted Alkynylation-Cyclization of 2-Aminoaryl Ketones: A Green Strategy for the Synthesis of 2,4-Disubstituted Quinolines. <i>Synlett</i> , 2010, 2010, 3104-3112.	1.0	43
6	Building a bridge between aprotic and protic ionic liquids. <i>RSC Advances</i> , 2013, 3, 337-340.	1.7	38
7	Autocatalytic Synthesis of Bifluoride Ionic Liquids by SuFEx Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16005-16009.	7.2	38
8	Multi-wall carbon nanotubes supported molybdenum hexacarbonyl: An efficient and highly reusable catalyst for epoxidation of alkenes with tert-butyl hydroperoxide. <i>Journal of Molecular Catalysis A</i> , 2010, 329, 44-49.	4.8	36
9	Synthesis of New Lipid-Inspired Ionic Liquids by Thiol-Ene Chemistry: Profound Solvent Effect on Reaction Pathway. <i>Chemistry - A European Journal</i> , 2014, 20, 7576-7580.	1.7	33
10	Solid state photochemistry of 1,4-dihydropyridines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3423-3425.	1.0	30
11	Thermophysical Properties of Imidazolium-Based Lipidic Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1516-1522.	1.0	30
12	Bifunctional hydrophobic ionic liquids: facile synthesis by thiol-ene click chemistry. <i>Green Chemistry</i> , 2016, 18, 2443-2452.	4.6	30
13	Pt(II)-Decorated Covalent Organic Framework for Photocatalytic Difluoroalkylation and Oxidative Cyclization Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6349-6358.	4.0	27
14	Efficient one-pot synthesis of 2,3-dihydroquinazolin-4(1H)-ones from aromatic aldehydes and their one-pot oxidation to quinazolin-4(3H)-ones catalyzed by Bi(NO ₃) ₃ ·5H ₂ O: Investigating the role of the catalyst. <i>Comptes Rendus Chimie</i> , 2011, 14, 944-952.	0.2	26
15	Synthesis and thermophysical properties of ionic liquids: cyclopropyl moieties versus olefins as Tm-reducing elements in lipid-inspired ionic liquids. <i>Tetrahedron Letters</i> , 2013, 54, 12-14.	0.7	22
16	Functionalized ionic liquids with highly polar polyhydroxylated appendages and their rapid synthesis via thiol-ene click chemistry. <i>Tetrahedron Letters</i> , 2011, 52, 5173-5175.	0.7	21
17	The Effect of the Sulfur Position on the Melting Points of Lipidic 1-Methyl-3-Thiaalkylimidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10232-10239.	1.2	21
18	Microwave-promoted, one-pot conversion of alkoxymethylated protected alcohols into their corresponding nitriles, bromides, and iodides using [bmim][InCl ₄] as a green catalyst. <i>Tetrahedron Letters</i> , 2010, 51, 3274-3276.	0.7	17

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19	12-Tungstophosphoric acid supported on inorganic oxides as heterogeneous and reusable catalysts for the selective preparation of alkoxyethyl ethers and their deprotections under different reaction conditions. <i>Polyhedron</i> , 2008, 27, 2612-2624.	1.0	16
20	H ₃ PW ₁₂ O ₄₀ A selective, environmentally benign, and reusable catalyst for the preparation of methoxymethyl and ethoxymethyl ethers and their deprotections under mild conditions. <i>Canadian Journal of Chemistry</i> , 2008, 86, 831-840.	0.6	16
21	Autocatalytic Synthesis of Bifluoride Ionic Liquids by SuFEx Click Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 16237-16241.	1.6	15
22	Design Principles of Lipid-like Ionic Liquids for Gene Delivery. <i>ACS Applied Bio Materials</i> , 2021, 4, 4737-4743.	2.3	15
23	Microwave-promoted one-pot conversion of alcohols to oximes using 1-methylimidazolium nitrate, [Hmim][NO ₃], as a green promoter and medium. <i>Comptes Rendus Chimie</i> , 2011, 14, 1065-1070.	0.2	14
24	Direct synthesis of 2,4,5-trisubstituted imidazoles from alcohols and α -hydroxyketones by microwave. <i>Environmental Chemistry Letters</i> , 2014, 12, 177-183.	8.3	14
25	Ionic liquids with thioether motifs as synthetic cationic lipids for gene delivery. <i>Chemical Communications</i> , 2017, 53, 8328-8331.	2.2	14
26	Molecular design principles of ionic liquids with a sulfonyl fluoride moiety. <i>New Journal of Chemistry</i> , 2021, 45, 2443-2452.	1.4	13
27	Structure-based tuning of Tm in lipid-like ionic liquids. Insights from Tf ₂ N ⁻ salts of gene transfection agents. <i>Chemical Communications</i> , 2012, 48, 7522.	2.2	12
28	Click chemistry mediated synthesis of bio-inspired phosphonyl-functionalized ionic liquids. <i>Green Chemistry</i> , 2015, 17, 1259-1268.	4.6	12
29	Lipid-Inspired Ionic Liquids Containing Long-Chain Appendages: Novel Class of Biomaterials with Attractive Properties and Applications. <i>ACS Symposium Series</i> , 2012, , 199-216.	0.5	11
30	A simple and rapid route to novel tetra(4-thiaalkyl)ammonium bromides. <i>RSC Advances</i> , 2013, 3, 24612.	1.7	11
31	Thioether-functionalized picolinium ionic liquids: synthesis, physical properties and computational studies. <i>New Journal of Chemistry</i> , 2017, 41, 1625-1630.	1.4	11
32	Biomimetic design of protic lipidic ionic liquids with enhanced fluidity. <i>New Journal of Chemistry</i> , 2016, 40, 7795-7803.	1.4	10
33	Methimazolium-based ionic liquid crystals: Emergence of mesomorphic properties via a sulfur motif. <i>Tetrahedron</i> , 2017, 73, 5456-5460.	1.0	10
34	Study of biocatalytic activity of histidine ammonia lyase in protic ionic liquids. <i>Journal of Molecular Liquids</i> , 2017, 248, 830-832.	2.3	8
35	One-pot synthesis of 2,3-disubstituted-2,3-dihydroquinazolin-4(1 <i>H</i>)-ones using [Hmim][NO ₃]: An eco-friendly protocol. <i>Journal of Heterocyclic Chemistry</i> , 2011, 48, 1419-1427.	1.4	7
36	Phosphorodithioate-functionalized ionic liquids: Synthesis and physicochemical properties characterization. <i>Journal of Molecular Liquids</i> , 2019, 276, 334-337.	2.3	6

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37	[C4mim][InCl ₄]: An efficient catalyst-medium for alkoxymethylation of alcohols and their interconversion to acetates and TMS-ethers. <i>Comptes Rendus Chimie</i> , 2011, 14, 568-579.	0.2	5
38	Degradation of Chitin Utilizing Acid Functionalized Ionic Liquids Technology. <i>ACS Symposium Series</i> , 2012, , 189-198.	0.5	5
39	The Combination of 1-Butyl-3-methylimidazolium Bromide and Trichloro(trifluoromethanesulfonato)titanium(IV) as a New Protocol for the Synthesis of Aryl Nitriles. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2102-2104.	1.0	5
40	Developing Structural First Principles for Alkylated Triphenylphosphonium-Based Ionic Liquids. <i>ACS Omega</i> , 2021, 6, 32285-32296.	1.6	5
41	H ₃ PW ₁₂ O ₄₀ @[bimim][FeCl ₄]: A novel and green catalyst-medium system for microwave-promoted selective interconversion of alkoxymethyl ethers into their corresponding nitriles, bromides and iodides. <i>Comptes Rendus Chimie</i> , 2010, 13, 1468-1473.	0.2	4
42	Heterogeneous microwave-assisted Ullmann type methodology for synthesis of rigid-core ionic liquid crystals. <i>New Journal of Chemistry</i> , 2018, 42, 10421-10431.	1.4	4
43	Studies on solubility and S-alkylation of 2-thiouracil in ionic liquids. <i>Journal of Molecular Liquids</i> , 2018, 265, 463-467.	2.3	4
44	From gene delivery agents to ionic liquids: The impacts of cation structure and anion identity on liquefaction. <i>Journal of Molecular Liquids</i> , 2019, 296, 111758.	2.3	4
45	Crystal structure of a methimazole-based ionic liquid. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o1008-o1009.	0.2	4
46	A co-crystal of 1,10-phenanthroline with boric acid: a novel aza-aromatic complex. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1067-o1068.	0.2	3
47	Synthesis and Properties of Lipid-Inspired Ionic Liquids. , 2016, , 205-223.		3
48	Covalently linked hydrogen bond donors: The other side of molecular frustration in deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2021, 155, 084502.	1.2	3
49	1-Methyl-1 <i>H</i> -imidazol-3-ium methanesulfonate. <i>IUCrData</i> , 2018, 3, .	0.1	3
50	Ionic liquid-induced conversion of methoxymethyl-protected alcohols into nitriles and iodides using [Hmim][NO ₃]. <i>Tetrahedron Letters</i> , 2014, 55, 4424-4426.	0.7	1
51	Deconvolution of conformational equilibria in methimazolium-based ionic liquid ion pair: Infrared spectroscopic and computational study. <i>Journal of Molecular Liquids</i> , 2018, 266, 194-202.	2.3	1
52	Crystal structure of triphenyl(vinyl)phosphonium tetraphenylborate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o1143-o1143.	0.2	0