

Are Ionic Liquids Chemically Stable?

Chemical Reviews

117, 7113-7131

DOI: [10.1021/acs.chemrev.6b00594](https://doi.org/10.1021/acs.chemrev.6b00594)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Introduction: Ionic Liquids. <i>Chemical Reviews</i> , 2017, 117, 6633-6635.	23.0	855
2	Developments in the Reactivity of 2-Methylimidazolium Salts. <i>Journal of Organic Chemistry</i> , 2017, 82, 6232-6241.	1.7	6
3	Dissolution behaviour and activation of selenium in phosphonium based ionic liquids. <i>Chemical Communications</i> , 2017, 53, 7588-7591.	2.2	20
4	Evidence for the spontaneous formation of N-heterocyclic carbenes in imidazolium based ionic liquids. <i>Chemical Communications</i> , 2017, 53, 11154-11156.	2.2	29
5	Swelling Poly (Ionic Liquid)s: Heterogeneous Catalysts That are Superior than Homogeneous Catalyst for Ethylene Carbonate Transformation. <i>ChemistrySelect</i> , 2017, 2, 9443-9449.	0.7	17
6	Mechanistic exploration of the copper (Cu) phosphide synthesis in phosphonium-based and phosphorus-free ionic liquids. <i>Dalton Transactions</i> , 2017, 46, 15004-15011.	1.6	13
7	Dimethyldioxirane (DMDO) as a valuable oxidant for the synthesis of polyfunctional aromatic imidazolium monomers bearing epoxides. <i>Green Chemistry</i> , 2017, 19, 5054-5059.	4.6	31
8	Cholesterol-Appended Benzimidazolium Salts: Synthesis, Aggregation, Sensing, Dye Adsorption, and Semiconducting Properties. <i>Langmuir</i> , 2017, 33, 8277-8288.	1.6	31
9	Transport properties and ionicity of phosphonium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23015-23023.	1.3	30
10	N-Heterocyclic Carbene Boranes are Hydrogen Donors in Masamune's Bergman Reactions of Benzo[3,4]cyclodec-3-ene-1,5-diyne. <i>Journal of Organic Chemistry</i> , 2017, 82, 13034-13042.	1.7	16
11	Interphase engineering of reactive metal surfaces using ionic liquids and deep eutectic solvents from corrosion control to next-generation batteries. <i>Npj Materials Degradation</i> , 2017, 1, .	2.6	16
12	Understanding the solvation behavior of tetramethylguanidinium based ionic liquids in dilute aqueous solutions through apparent molar properties. <i>Journal of Molecular Liquids</i> , 2017, 242, 129-136.	2.3	4
13	Ionic Liquids as Micellar Agents in Perrhenate-catalysed Olefin Epoxidation. <i>ChemistrySelect</i> , 2017, 2, 11891-11898.	0.7	16
14	Porous Liquid: A Stable ZIF-8 Colloid in Ionic Liquid with Permanent Porosity. <i>Langmuir</i> , 2018, 34, 3654-3660.	1.6	108
15	Advances in catalytic transformations of carbohydrates and lignin in ionic liquids and mechanistic studies. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e284.	1.9	9
16	Cation Conformational Changes of 1-Butyl-3-methylimidazolium Halides at High Pressures. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9320-9331.	1.5	2
17	Accurate prediction of the structure and vibrational spectra of ionic liquid clusters with the generalized energy-based fragmentation approach: critical role of ion-pair-based fragmentation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13547-13557.	1.3	18
18	Reversible Silver Electrodeposition from Boron Cluster Ionic Liquid (BCIL) Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6825-6830.	4.0	23

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19	Thermal, electrochemical and radiolytic stabilities of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8382-8402.	1.3	248
20	Ultraslow Phase Transitions in an Anion- ⁺ Anion Hydrogen-Bonded Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1972-1980.	1.2	13
21	Synthesis, Cytotoxicity Evaluation in Human Cell Lines and in Vitro DNA Interaction of a Hetero- ⁺ Arylidene- ⁺ (10 <i>H</i>)-Anthrone. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 545-549.	1.2	6
22	Metal-free synthesis of imidazole by BF ₃ ·Et ₂ O promoted denitrogenative transannulation of <i>N</i> -sulfonyl-1,2,3-triazole. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1461-1464.	1.5	32
23	Synthesis and Properties of Triaminocyclopropenium Cation Based Ionic Liquids as Hypergolic Fluids. <i>Chemistry - A European Journal</i> , 2018, 24, 4620-4627.	1.7	20
24	An Aluminum- ⁺ Sulfur Battery with a Fast Kinetic Response. <i>Angewandte Chemie</i> , 2018, 130, 1916-1920.	1.6	43
25	An Aluminum- ⁺ Sulfur Battery with a Fast Kinetic Response. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1898-1902.	7.2	154
26	Phosphonium-Based Ionic Liquid: A New Phosphorus Source toward Microwave-Driven Synthesis of Nickel Phosphide for Efficient Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1468-1477.	3.2	50
27	Ionic liquids: a brief history. <i>Biophysical Reviews</i> , 2018, 10, 691-706.	1.5	658
28	Stability of the zwitterionic liquid butyl-methyl-imidazol-2-ylidene borane. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11437-11443.	1.3	10
29	Influence of additives on thermoresponsive polymers in aqueous media: a case study of poly(<i>N</i> -isopropylacrylamide). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9717-9744.	1.3	44
30	Innovative aspects of protein stability in ionic liquid mixtures. <i>Biophysical Reviews</i> , 2018, 10, 841-846.	1.5	35
31	Thermodynamic properties of selenoether-functionalized ionic liquids and their use for the synthesis of zinc selenide nanoparticles. <i>Dalton Transactions</i> , 2018, 47, 5083-5097.	1.6	14
32	Recent Advances in Pd-Catalyzed Cross-Coupling Reaction in Ionic Liquids. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1284-1306.	1.2	94
33	Deep eutectic solvents for the production and application of new materials. <i>Applied Materials Today</i> , 2018, 10, 30-50.	2.3	442
34	Solvent Bar Micro-Extraction of Heavy Metals from Natural Water Samples Using 3-Hydroxy-2-Naphthoate-Based Ionic Liquids. <i>Molecules</i> , 2018, 23, 3011.	1.7	15
35	The peculiar effect of water on ionic liquids and deep eutectic solvents. <i>Chemical Society Reviews</i> , 2018, 47, 8685-8720.	18.7	346
36	Iodocuprate-containing ionic liquids as promoters for green propulsion. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22819-22829.	5.2	44

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37	Synthesis and Properties of Magnetic Aryl-Imidazolium Ionic Liquids with Dual Brønsted/Lewis Acidity. <i>Materials</i> , 2018, 11, 2539.	1.3	13
38	Binary Alkoxide Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13676-13680.	3.2	19
39	Lewis Acidity and Basicity of Mixed Chlorometallate Ionic Liquids: Investigations from Surface Analysis and Fukui Function. <i>Molecules</i> , 2018, 23, 2516.	1.7	9
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42	Triphenyl(3-sulfopropyl)phosphonium trinitromethanide as a novel nanosized molten salt: Catalytic activity at the preparation of dihydropyrano[2,3-c]pyrazoles. <i>Journal of Molecular Liquids</i> , 2018, 271, 872-884.	2.3	18
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45	Prediction of ¹ H NMR chemical shifts for ionic liquids: strategy and application of a relative reference standard. <i>RSC Advances</i> , 2018, 8, 28604-28612.	1.7	12
46	Understanding the Chemical Reactivity of Phosphonium-Based Ionic Liquids with Tellurium. <i>Chemistry - A European Journal</i> , 2018, 24, 9325-9332.	1.7	16
47	Acetate- and lactate-based ionic liquids: Synthesis, characterisation and electrochemical properties. <i>Journal of Molecular Liquids</i> , 2018, 264, 233-241.	2.3	36
48	Use of ionic liquids to minimize sodium induced internal diesel injector deposits (IDIDs). <i>Molecular Systems Design and Engineering</i> , 2018, 3, 397-407.	1.7	7
49	Effects of 1-butyl-3-methylimidazolium chloride on the photosynthetic system and metabolism of maize (<i>Zea mays</i> L.) seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 648-654.	2.9	9
50	Reaction-Based Detection of Chemical Warfare Agent Mimics with Affinity Ionic Liquids. <i>Analytical Chemistry</i> , 2018, 90, 8320-8325.	3.2	16
51	Cage-like cross-linked membranes with excellent ionic liquid retention and elevated proton conductivity for HT-PEMFCs. <i>Electrochimica Acta</i> , 2018, 283, 691-698.	2.6	36
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55	Ionic Liquid and Sulfuric Acid-Based Pretreatment of Bamboo: Biomass Delignification and Enzymatic Hydrolysis for the Production of Reducing Sugars. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10105-10117.	1.8	45
56	Effects of soil components and solution inorganic cations on interactions of imidazolium-based ionic liquid with soils. <i>Journal of Environmental Management</i> , 2018, 223, 975-983.	3.8	8
57	Host-guest complexation of ionic liquid with β - and γ -cyclodextrins: a comparative study by $^1\text{H-NMR}$, $^{13}\text{C-NMR}$ and COSY. <i>New Journal of Chemistry</i> , 2018, 42, 14542-14550.	1.4	11
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59	Preparation and characterization of chitosan membranes. <i>RSC Advances</i> , 2018, 8, 28433-28439.	1.7	62
60	Solubility-switchable Ionic Liquids: A Control of Hydrophilicity and Hydrophobicity Using a Protective Group. <i>Chemistry Letters</i> , 2018, 47, 1079-1081.	0.7	11
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73	Insights on [BMIM][BF ₄] and [BMIM][PF ₆] ionic liquids and their binary mixtures with acetone and acetonitrile. <i>Journal of Molecular Liquids</i> , 2019, 294, 111632.	2.3	13
74	Ion speciation: a key for the understanding of the solution properties of ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21626-21632.	1.3	11
75	Ionic liquid groups modified 3D porous cellulose microspheres for selective adsorption of AO7 dye. <i>Journal of Cleaner Production</i> , 2019, 240, 118201.	4.6	41
76	Pickering emulsion droplets hosting ionic liquid catalysts for continuous-flow cyanosilylation reaction. <i>Green Chemistry</i> , 2019, 21, 627-633.	4.6	34
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83	The Rechargeable Aluminum Battery: Opportunities and Challenges. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11978-11996.	7.2	276
84	Efficient iodine capture by biocompatible PEG-based deep eutectic solvents: Kinetics and dynamic mechanism. <i>Journal of Molecular Liquids</i> , 2019, 289, 111166.	2.3	25
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93	Swelling Poly(ionic liquid) Supported by Three-Dimensional Wire Mesh for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14347-14353.	4.0	30
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103	Synergistic Dual Role of [hmim]Br-ArSO ₂ Cl in Cascade Sulfenylation-Halogenation of Indole: Mechanistic Insight into Regioselective S and S/X (X = Cl and Br) Bond Formation in One Pot. <i>Journal of Organic Chemistry</i> , 2019, 84, 2660-2675.	1.7	34
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105	The conversion of α -pinene to β -pinane using a nickel catalyst supported on a discarded fluid catalytic cracking catalyst with an ionic liquid layer. <i>RSC Advances</i> , 2019, 9, 5978-5986.	1.7	11
106	Binary mixtures of ionic liquids-DMSO as solvents for the dissolution and derivatization of cellulose: Effects of alkyl and alkoxy side chains. <i>Carbohydrate Polymers</i> , 2019, 212, 206-214.	5.1	26
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115	Synthesis of novel functional ionic liquids and their application in biomass. <i>RSC Advances</i> , 2019, 9, 29652-29658.	1.7	10
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