

Environmental fate and toxicity of ionic liquids: A review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ionic liquids: Applications and future trends in bioreactor technology. <i>Bioresource Technology</i> , 2010, 101, 8923-8930.	4.8	181
2	Efficient Route to Hydroxymethylfurans from Sugars via Transfer Hydrogenation. <i>ChemSusChem</i> , 2010, 3, 1139-1141.	3.6	78
3	Copper-catalyzed one-pot synthesis of propargylamines via C-H activation in PEG. <i>Applied Organometallic Chemistry</i> , 2010, 24, 809-812.	1.7	40
4	1-Butyl-3-methylimidazolium tetrafluoroborate removal by electrolysis treatment. , 2010, , .		0
6	Temperature-Dependent Solvatochromic Probe Behavior within Ionic Liquids and (Ionic Liquid +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 50	1.2	66
7	Novel Pyridinium Dyes That Enable Investigations of Peptoids at the Single-Molecule Level. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13473-13480.	1.2	19
8	Optofluidic compound microlenses made by emulsion techniques. <i>Optics Express</i> , 2010, 18, 18703.	1.7	2
9	Introduction of oxygenated side chain into imidazolium ionic liquids: Evaluation of the effects at different biological organization levels. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1456-1464.	2.9	113
10	A rational design of phosphonium salt type ionic liquids for ionic liquid coated-lipase catalyzed reaction. <i>Green Chemistry</i> , 2010, 12, 1976.	4.6	67
11	Further studies on the biodegradation of ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1783.	4.6	61
12	Synthesis, toxicity, biodegradability and physicochemical properties of 4-benzyl-4-methylmorpholinium-based ionic liquids. <i>Green Chemistry</i> , 2011, 13, 2901.	4.6	94
13	Arylspiroboronate esters: from lithium batteries to wood preservatives to catalysis. <i>Chemical Society Reviews</i> , 2011, 40, 1446-1458.	18.7	43
14	Efficient biodegradation of common ionic liquids by <i>Sphingomonas paucimobilis</i> bacterium. <i>Green Chemistry</i> , 2011, 13, 709.	4.6	66
15	Predicting Hormetic Effects of Ionic Liquid Mixtures on Luciferase Activity Using the Concentration Addition Model. <i>Environmental Science & Technology</i> , 2011, 45, 1623-1629.	4.6	77
16	Toxic Effects of Imidazolium Ionic Liquids on the Green Seaweed <i>Ulva lactuca</i> : Oxidative Stress and DNA Damage. <i>Chemical Research in Toxicology</i> , 2011, 24, 1882-1890.	1.7	93
17	Sorption to Dissolved Humic Acid and Its Impacts on the Toxicity of Imidazolium Based Ionic Liquids. <i>Environmental Science & Technology</i> , 2011, 45, 1688-1694.	4.6	39
18	Chameleonic Behavior of Ionic Liquids and Its Impact on the Estimation of Solubility Parameters. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12879-12888.	1.2	38
19	Influence of an Oxygen Functionalization on the Physicochemical Properties of Ionic Liquids: Density, Viscosity, and Carbon Dioxide Solubility as a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4194-4202.	1.0	53

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20	Facile N-alkylation of acridine esters with 1,3-propane sultone in ionic liquids. <i>Green Chemistry</i> , 2011, 13, 913.	4.6	22
21	Design of ionic liquids: an ecotoxicity (<i>Vibrio fischeri</i>) discrimination approach. <i>Green Chemistry</i> , 2011, 13, 1507.	4.6	130
22	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. <i>Green Chemistry</i> , 2011, 13, 1527.	4.6	73
23	Effects of Imidazolium Ionic Liquids on Growth, Photosynthetic Efficiency, and Cellular Components of the Diatoms <i>Skeletonema marinoi</i> and <i>Phaeodactylum tricornutum</i> . <i>Chemical Research in Toxicology</i> , 2011, 24, 392-401.	1.7	40
24	Acute toxicity and biodegradability of N-alkyl-N-methylmorpholinium and N-alkyl-DABCO based ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 748-753.	2.9	71
25	Azole-Based Energetic Salts. <i>Chemical Reviews</i> , 2011, 111, 7377-7436.	23.0	1,023
26	The Use of Cholinesterases in Ecotoxicology. <i>Reviews of Environmental Contamination and Toxicology</i> , 2011, 212, 29-59.	0.7	66
27	Glycerol and derived solvents: new sustainable reaction media for organic synthesis. <i>Chemical Communications</i> , 2011, 47, 6208.	2.2	227
28	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2011, 83, 4614-4648.	3.2	804
29	Ionic liquids for extraction of metals and metal containing compounds from communal and industrial waste water. <i>Water Research</i> , 2011, 45, 4601-4614.	5.3	142
30	Understanding chemical reaction mechanisms in ionic liquids: successes and challenges. <i>Chemical Society Reviews</i> , 2011, 40, 272-290.	18.7	145
31	Comparative cradle-to-gate life cycle assessments of cellulose dissolution with 1-butyl-3-methylimidazolium chloride and N-methyl-morpholine-N-oxide. <i>Green Chemistry</i> , 2011, 13, 367-375.	4.6	76
32	Corrosion properties of ammonium based ionic liquids evaluated by SEM-EDX, XPS and ICP-OES. <i>Green Chemistry</i> , 2011, 13, 2869.	4.6	66
33	Ionic Liquids: Methods of Degradation and Recovery. , 0, , .		23
34	Selective Breakdown of (Ligno)cellulose in Ionic Liquids. , 0, , .		3
35	Quaternary Ammonium and Phosphonium Ionic Liquids in Chemical and Environmental Engineering. , 0, , .		22
36	Sample Treatments Based on Ionic Liquids. , 2011, , .		0
37	Chapter 13 Membrane-Based Separation Process for Juice Processing. , 2011, , 231-248.		3

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38	Ionic liquids as a tool for determination of metals and organic compounds in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1598-1619.	5.8	63
39	Study on the interaction between an ionic liquid and L-tryptophan by fluorescence spectroscopic technique. <i>Microchemical Journal</i> , 2011, 99, 439-442.	2.3	12
40	Preparation and characterization of immobilized [A336][MTBA] in PVA- α -alginate gel beads as novel solid-phase extractants for an efficient recovery of Hg (II) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2011, 196, 201-209.	6.5	45
41	Influence of oxygen functionalities on the environmental impact of imidazolium based ionic liquids. <i>Journal of Hazardous Materials</i> , 2011, 198, 165-174.	6.5	66
42	Surface tension, interfacial tension and contact angles of ionic liquids. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 310-316.	3.4	72
43	Toxicity and biodegradability of ionic liquids: New perspectives towards whole-cell biotechnological applications. <i>Chemical Engineering Journal</i> , 2011, 174, 27-32.	6.6	86
44	Evaluation on the toxicity of ionic liquid mixture with antagonism and synergism to <i>Vibrio qinghaiensis</i> sp.-Q67. <i>Chemosphere</i> , 2011, 82, 1024-1029.	4.2	63
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47	Cytotoxicity estimation of ionic liquids based on their effective structural features. <i>Chemosphere</i> , 2011, 84, 553-563.	4.2	118
48	Ionic liquid-based microwave-assisted extraction of essential oil and biphenyl cyclooctene lignans from <i>Schisandra chinensis</i> Baill fruits. <i>Journal of Chromatography A</i> , 2011, 1218, 8573-8580.	1.8	136
49	Room-Temperature Ionic Liquids: Solvents for Synthesis and Catalysis. 2. <i>Chemical Reviews</i> , 2011, 111, 3508-3576.	23.0	4,688
50	CO ₂ chemistry: task-specific ionic liquids for CO ₂ capture/activation and subsequent conversion. <i>RSC Advances</i> , 2011, 1, 545.	1.7	335
51	Synthesis and anti-microbial activity of hydroxylammonium ionic liquids. <i>Chemosphere</i> , 2011, 84, 101-104.	4.2	49
52	Influence of Imidazolium Ionic Liquids on Dehydrogenase Activity of Activated Sludge Microorganisms. <i>Water, Air, and Soil Pollution</i> , 2011, 221, 327-335.	1.1	24
53	Development a robust ionic liquid-based dispersive liquid-liquid microextraction against high concentration of salt combined with flame atomic absorption spectrometry using microsample introduction system for preconcentration and determination of cobalt in water and saline samples. <i>Mikrochimica Acta</i> . 2011. 172. 75-82.	2.5	50
54	In silico cytotoxicity estimation of ionic liquids based on their two- and three-dimensional structural descriptors. <i>Monatshefte für Chemie</i> , 2011, 142, 1111-1119.	0.9	6
55	Ionic liquids with herbicidal anions. <i>Tetrahedron</i> , 2011, 67, 4838-4844.	1.0	153

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58	Biodegradability of Ionic Liquids – Test Procedures and Structural Design. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 1454-1467.	0.4	11
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61	Mandelate and prolinatate ionic liquids: synthesis, characterization, catalytic and biological activity. <i>Tetrahedron Letters</i> , 2011, 52, 1325-1328.	0.7	58
62	The Biodegradation of Ionic Liquids - the View from a Chemical Structure Perspective. <i>Current Organic Chemistry</i> , 2011, 15, 1946-1973.	0.9	110
63	Toxicity of Ionic Liquids Towards Mammalian Cell Lines. <i>Current Organic Chemistry</i> , 2011, 15, 1905-1917.	0.9	30
64	Ionic Liquids and their Biological Effects Towards Microorganisms. <i>Current Organic Chemistry</i> , 2011, 15, 1888-1904.	0.9	32
65	Effects of 1-butyl-3-methylimidazolium chloride ionic liquid on the growth of rice seedlings. , 2011, , .		0
66	Global transcriptome response to ionic liquid by a tropical rain forest soil bacterium, <i>Enterobacter lignolyticus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2173-82.	3.3	85
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75	Some Aspects of Ionic Liquids as Diverse and Versatile Sustainable Solvents. <i>Journal of Solution Chemistry</i> , 2012, 41, 1673-1695.	0.6	14
76	Removal of charged micropollutants from water by ion-exchange polymers – Effects of competing electrolytes. <i>Water Research</i> , 2012, 46, 5009-5018.	5.3	63

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77	Apoptosis caused by imidazolium-based ionic liquids in PC12 cells. <i>Ecotoxicology and Environmental Safety</i> , 2012, 83, 102-107.	2.9	58
78	Solubility of ionic liquids in water and octan-1-ol and octan-1-ol/water, or 2-phenylethanol/water partition coefficients. <i>Journal of Chemical Thermodynamics</i> , 2012, 55, 225-233.	1.0	25
79	Development of classification and regression models for <i>Vibrio fischeri</i> toxicity of ionic liquids: green solvents for the future. <i>Toxicology Research</i> , 2012, 1, 186.	0.9	47
80	Extraction of ionic liquids from aqueous solutions by humic acid: an environmentally benign, inexpensive and simple procedure. <i>Chemical Communications</i> , 2012, 48, 392-394.	2.2	9
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83	Effective resolution of 1-phenyl ethanol by <i>Candida antarctica</i> lipase B catalysed acylation with vinyl acetate in protic ionic liquids (PILs). <i>Green Chemistry</i> , 2012, 14, 1584.	4.6	43
84	A novel electrochemical biosensing platform based on poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) composites. <i>Synthetic Metals</i> , 2012, 162, 1308-1314.	2.1	27
85	An in-situ extraction-preconcentration method using ionic liquid-based surfactants for the determination of organic contaminants contained in marine sediments. <i>Talanta</i> , 2012, 99, 972-983.	2.9	57
86	Base-free conjugate addition of aliphatic nitro compounds to enones in <i>BmimNTf2</i> : a recyclable synthesis of β -nitro ketones. <i>Tetrahedron</i> , 2012, 68, 5852-5856.	1.0	7
87	Biodegradability of fluoroorganic and cyano-based ionic liquid anions under aerobic and anaerobic conditions. <i>Green Chemistry</i> , 2012, 14, 410-418.	4.6	39
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97	Toxic cytological alteration and mitochondrial dysfunction in PC12 cells induced by 1-octyl-3-methylimidazolium chloride. <i>Toxicology in Vitro</i> , 2012, 26, 1087-1092.	1.1	43
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121	Adsorption of ionic liquids onto activated carbons: Effect of pH and temperature. Microporous and Mesoporous Materials, 2012, 158, 55-63.	2.2	51
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133	Phase equilibria study of (ionic liquid + water) binary mixtures. Fluid Phase Equilibria, 2013, 354, 66-74.	1.4	36

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135	Phytotoxicity and oxidative stress effect of 1-octyl-3-methylimidazolium chloride ionic liquid on rice seedlings. <i>Environmental Pollution</i> , 2013, 181, 242-249.	3.7	84
137	Pretreatment and Fractionation of Wheat Straw Using Various Ionic Liquids. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7874-7882.	2.4	85
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151	Dispersive liquid-liquid microextraction for chemical speciation and determination of ultra-trace concentrations of metal ions. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 44, 12-24.	5.8	90
152	Elicitation of the most important structural properties of ionic liquids affecting ecotoxicity in limnic green algae; a QSAR approach. <i>Ecotoxicology and Environmental Safety</i> , 2013, 87, 42-48.	2.9	28

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154	Ionic liquids and deep eutectic solvents for biodiesel synthesis: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 3-12.	1.6	242
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