Synthesis and Properties of Chiral Ammonium-Based Io

Chemistry - A European Journal
11, 4441-4449
DOI: 10.1002/chem.200500026

Citation Report

#	Article	IF	Citations
1	Influence of chloride, water, and organic solvents on the physical properties of ionic liquids. Pure and Applied Chemistry, 2000, 72, 2275-2287.	0.9	2,126
2	Chiral ionic liquids, a renewal for the chemistry of chiral solvents? Design, synthesis and applications for chiral recognition and asymmetric synthesis. Tetrahedron: Asymmetry, 2005, 16, 3921-3945.	1.8	280
3	Design and Synthesis of C-2 Substituted Chiral Imidazolium Ionic Liquids from Amino Acid Derivatives. Journal of Organic Chemistry, 2005, 70, 10600-10602.	1.7	36
4	Simple transformation of crystalline chiral natural anions to liquid medium and their use to induce chirality. Chemical Communications, 2006, , 2371-2372.	2.2	78
5	INNOVATIVE APPLICATIONS OF IONIC LIQUIDS AS â€œGREENâ€•ENGINEERING LIQUIDS. Chemical Engineering Communications, 2006, 193, 1660-1677.	1.5	318
6	An efficient and practical synthesis of chiral imidazolium ionic liquids and their application in an enantioselective Michael reaction. Green Chemistry, 2006, 8, 731.	4.6	33
7	Review of ionic liquids with fluorine-containing anions. Journal of Fluorine Chemistry, 2006, 127, 159-176.	0.9	203
8	Chiral pyridinium-based ionic liquids containing the (1R,2S,5R)-(â˜)-menthyl group. Tetrahedron: Asymmetry, 2006, 17, 1728-1737.	1.8	35
9	Synthesis and properties of novel chiral-amine-functionalized ionic liquids. Tetrahedron: Asymmetry, 2006, 17, 2028-2033.	1.8	52
10	Novel imidazolium chiral ionic liquids that contain a urea functionality. Tetrahedron Letters, 2006, 47, 7331-7334.	0.7	17
11	Design and Synthesis of Novel Chiral Spiro Ionic Liquids. Organic Letters, 2006, 8, 227-230.	2.4	55
13	Ionic Liquids Then and Now: From Solvents to Materials to Active Pharmaceutical Ingredients. Bulletin of the Chemical Society of Japan, 2007, 80, 2262-2269.	2.0	315
15	Choline Saccharinate and Choline Acesulfamate:Â Ionic Liquids with Low Toxicities. Journal of Physical Chemistry B, 2007, 111, 5254-5263.	1.2	224
16	Thermodynamic Phase Behavior of Ionic Liquids. Journal of Chemical & Engineering Data, 2007, 52, 1872-1880.	1.0	56
17	Efficient catalyst reuse by simple dissolution in non-conventional media. Chemical Communications, 2007, , 2669-2679.	2.2	46
18	Synthesis and properties of chiral imidazolium ionic liquids with a (1R,2S,5R)-(â˜)-menthoxymethyl substituent. New Journal of Chemistry, 2007, 31, 879-892.	1.4	78
19	Ionic Green Solvents from Renewable Resources. European Journal of Organic Chemistry, 2007, 2007, 1049-1058.	1.2	130
20	Synthesis of novel spiro imidazolium salts as chiral ionic liquids. Tetrahedron, 2007, 63, 12702-12711.	1.0	14

#	Article	IF	Citations
21	Design and synthesis of fused-ring chiral ionic liquids from amino acid derivatives. Tetrahedron Letters, 2007, 48, 1999-2002.	0.7	26
22	Phase equilibria of didecyldimethylammonium nitrate ionic liquid with water and organic solvents. Journal of Chemical Thermodynamics, 2007, 39, 729-736.	1.0	28
23	Catalytic cycloisomerisation of 1,6-dienes in ionic liquids. Tetrahedron, 2008, 64, 3687-3690.	1.0	11
24	Novel carbohydrate-based chiral ammonium ionic liquids derived from isomannide. Tetrahedron: Asymmetry, 2008, 19, 664-671.	1.8	58
25	Synthesis of new chiral ionic liquids based on (â˜)-menthol and (â˜)-borneol. Tetrahedron Letters, 2008, 49, 1652-1655.	0.7	19
26	Phase Equilibria and Modeling of Ammonium Ionic Liquid, C₂NTf₂, Solutions. Journal of Physical Chemistry B, 2008, 112, 1218-1225.	1.2	49
27	Combinatorial synthesis of functionalized chiral and doubly chiral ionic liquids and their applications as asymmetric covalent/non-covalent bifunctional organocatalysts. Organic and Biomolecular Chemistry, 2008, 6, 567-576.	1.5	56
28	Synthesis and Characterization of the First Pyrrolidineâ€Based Chiral Ionic Liquids. Synthetic Communications, 2008, 38, 1439-1447.	1.1	1
29	Ionic Liquids and Relative Process Design. Structure and Bonding, 2008, , 143.	1.0	0
30	Preparation and characterization of new low melting ammonium-based ionic liquids with ether functionality. Journal of Molecular Structure, 2009, 922, 64-76.	1.8	34
31	New chiral ionic liquids based on imidazolinium salts. Tetrahedron: Asymmetry, 2009, 20, 2344-2350.	1.8	30
32	Furan containing ammonium salts from furfural: synthesis and properties evaluation. New Journal of Chemistry, 2009, 33, 1859.	1.4	11
33	Antibiofilm activities of 1-alkyl-3-methylimidazolium chloride ionic liquids. Green Chemistry, 2009, 11, 492.	4.6	249
34	Novel chiral ammonium ionic liquids as efficient organocatalysts for asymmetric Michael addition of aldehydes to nitroolefins. Tetrahedron, 2010, 66, 4970-4976.	1.0	42
35	Crystalline vs. Ionic Liquid Salt Forms of Active Pharmaceutical Ingredients: A Position Paper. Pharmaceutical Research, 2010, 27, 521-526.	1.7	307
36	Structureâ€“activity relationship of cyclodextrin/biocidal double-tailed ammonium surfactant hostâ€“guest complexes: Towards a delivery molecular mechanism?. European Journal of Pharmaceutical Sciences, 2010, 41, 265-275.	1.9	25
37	3-Alkoxymethyl-1-(1R,2S,5R)-(â˜)-menthoxymethylimidazolium salts-based chiral ionic liquids. Tetrahedron: Asymmetry, 2010, 21, 2709-2718.	1.8	48
38	Synthesis and Applications of Ionic Liquids Derived from Natural Sugars. Topics in Current Chemistry, 2010, 295, 177-195.	4.0	51

#	Article	IF	Citations
39	Antimicrobial and antibiofilm activities of 1-alkylquinolinium bromide ionic liquids. Green Chemistry, 2010, 12, 420.	4.6	154
40	Highly recyclable, imidazolium derived ionic liquids of low antimicrobial and antifungal toxicity: A new strategy for acid catalysis. Green Chemistry, 2010, 12, 1157.	4.6	63
41	Synthesis, Characterization and Thermal Properties of a Novel Chiral Ionic Liquid with Chiral Center in Anion. Advanced Materials Research, 2011, 233-235, 184-187.	0.3	0
43	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. Green Chemistry, 2011, 13, 1527.	4.6	73
44	Ionic liquids: a pathway to environmental acceptability. Chemical Society Reviews, 2011, 40, 1383-1403.	18.7	1,063
45	Antimicrobial Ionic Liquids. , 2011, , .		5
46	Ionic Liquids: Future Solvents and Reagents for Pharmaceuticals. Journal of Chemical Engineering of Japan, 2011, 44, 370-381.	0.3	103
47	Effect of chiral ionic liquids on palladium-catalyzed Heck arylation of 2,3-dihydrofuran. Applied Catalysis A: General, 2011, 409-410, 148-155.	2.2	17
48	Data and QSPR study for viscosity of imidazolium-based ionic liquids. Fluid Phase Equilibria, 2011, 300, 95-104.	1.4	67
49	Ionic Liquids as Active Pharmaceutical Ingredients. ChemMedChem, 2011, 6, 975-985.	1.6	294
50	Mandelate and prolinate ionic liquids: synthesis, characterization, catalytic and biological activity. Tetrahedron Letters, 2011, 52, 1325-1328.	0.7	58
51	Synthesis and Antiproliferative Activity of Ammonium and Imidazolium Ionic Liquids against T98G Brain Cancer Cells. Molecules, 2012, 17, 13727-13739.	1.7	51
52	Synthesis of Novel Chiral Ionic Liquids Based on (â˜)-Menthyl Isonicotinate. Synthetic Communications, 2012, 42, 2555-2563.	1.1	8
53	Predictive Quantitative Structureâ€“Property Relationship Model for the Estimation of Ionic Liquid Viscosity. Industrial & Engineering Chemistry Research, 2012, 51, 2470-2477.	1.8	53
54	Protic pharmaceuticalionic liquids and solids: Aspects of protonics. Faraday Discussions, 2012, 154, 335-352.	1.6	129
55	An accurate model for the prediction of the glass transition temperature of ammonium based ionic liquids: A QSPR approach. Fluid Phase Equilibria, 2012, 324, 50-63.	1.4	25
56	Aqueous mixtures of di-n-decyldimethylammonium chloride/polyoxyethylene alkyl ether: Dramatic influence of tail/tail and head/head interactions on co-micellization and biocidal activity. Journal of Colloid and Interface Science, 2012, 374, 176-186.	5.0	25
57	Supramolecular effects on the antifungal activity of cyclodextrin/di-n-decyldimethylammonium chloride mixtures. European Journal of Pharmaceutical Sciences, 2012, 46, 336-345.	1.9	24

#	Article	IF	Citations
58	Chiral ionic liquids: A compendium of syntheses and applications (2005â€“2012). Chirality, 2012, 24, 17-53.	1.3	119
59	Novel N-methylimidazolium chiral ionic liquids with esterfunction functionality in cation. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 144-149.	0.4	0
60	A new generation of aprotic yet BrÃ¸nsted acidic imidazolium salts: effect of ester/amide groups in the C-2, C-4 and C-5 on antimicrobial toxicity and biodegradation. Green Chemistry, 2013, 15, 2747.	4.6	49
61	Palladium-catalyzed asymmetric Heck arylation of 2,3-dihydrofuran â€“ effect of prolinate salts. Dalton Transactions, 2013, 42, 1215-1222.	1.6	20
62	Enhanced antimicrobial activities of 1-alkyl-3-methyl imidazolium ionic liquids based on silver or copper containing anions. New Journal of Chemistry, 2013, 37, 873.	1.4	45
63	Imidazolium chiral ionic liquid derived carbene-catalyzed conjugate umpolung for synthesis of Î³-butyrolactones. RSC Advances, 2013, 3, 3996.	1.7	13
64	The effect of the cationic structures of chiral ionic liquids onÂtheirÂantimicrobial activities. Tetrahedron, 2013, 69, 4190-4198.	1.0	50
65	Physical Properties of Chiral Ionic Liquids Based on (â€“)-Menthol. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 515-520.	0.8	6
66	Effect of the Structures of Ionic Liquids on Their Physical Chemical Properties. Structure and Bonding, 2014, , 141-174.	1.0	9
68	Comparison of Phytotoxicity of Selected Phosphonium Ionic Liquid. Ecological Chemistry and Engineering S, 2014, 21, 281-295.	0.3	16
69	Quaternary ammonium derivatives of natural terpenoids. Synthesis and properties. Russian Chemical Bulletin, 2014, 63, 1884-1900.	0.4	19
70	Preparation and applications of surface-confined ionic-liquid stationary phases for liquid chromatography. TrAC - Trends in Analytical Chemistry, 2014, 53, 60-72.	5.8	99
72	Effect of the Temperature and Coordination Atom on the Physicochemical Properties of Chelate-Based Ionic Liquids and Their Binary Mixtures with Water. Journal of Chemical & Engineering Data, 2014, 59, 3960-3968.	1.0	14
73	Excess Enthalpies of Mixing, Effect of Temperature and Composition on the Density, and Viscosity and Thermodynamic Properties of Binary Systems of {Ammonium-Based Ionic Liquid + Alkanediol}. Journal of Physical Chemistry B, 2014, 118, 12692-12705.	1.2	31
74	Toxicity of ionic liquids toward microorganisms interesting to the food industry. RSC Advances, 2014, 4, 37157-37163.	1.7	64
75	Hydrogen-bond-rich ionic liquids as effective organocatalysts for Dielsâ€“Alder reactions. Green Chemistry, 2014, 16, 3508-3514.	4.6	60
76	Hydrophobic 3-alkyl-1-methylimidazolium saccharinates as extractants for l-lactic acid recovery. Separation and Purification Technology, 2014, 125, 239-246.	3.9	53
77	Thermodynamics and activity coefficients at infinite dilution for organic solutes, water and diols in the ionic liquid choline bis(trifluoromethylsulfonyl)imide. Journal of Chemical Thermodynamics, 2014, 77, 63-70.	1.0	74

#	Article	IF	Citations
78	New Eco-Friendly 1-Alkyl-3-(4-phenoxybutyl) Imidazolium-Based Ionic Liquids Derivatives: A Green Ultrasound-Assisted Synthesis, Characterization, Antibacterial Activity and POM Analyses. Molecules, 2014, 19, 11741-11759.	1.7	28
79	Dynamic Covalent Chemistry of Nucleophilic Substitution Component Exchange of Quaternary Ammonium Salts. Chemistry - an Asian Journal, 2015, 10, 2484-2496.	1.7	25
80	[TBA][Gly] ionic liquid promoted multi-component synthesis of 3-substituted indoles and indolyl-4H-chromenes. Tetrahedron Letters, 2015, 56, 1790-1793.	0.7	48
81	The phytotoxicity of ionic liquids from natural pool of (â^')-menthol with tetrafluoroborate anion. Environmental Science and Pollution Research, 2015, 22, 11740-11754.	2.7	25
82	The antimicrobial potential of ionic liquids: A source of chemical diversity for infection and biofilm control. International Journal of Antimicrobial Agents, 2015, 46, 131-139.	1.1	152
83	Application of ionic liquids in synthesis of polymeric binders for coatings. Progress in Organic Coatings, 2015, 89, 297-313.	1.9	16
84	Symmetrical Imidazolium Chloride Based on (â^')-Menthol: Synthesis, Characterization, and Theoretical Model of the Reaction. Journal of Organic Chemistry, 2015, 80, 237-246.	1.7	9
85	Herbicidal ionic liquids derived from renewable sources. RSC Advances, 2016, 6, 52781-52789.	1.7	38
86	Parameterization and optimization of the menthol force field for molecular dynamics simulations. Journal of Molecular Modeling, 2016, 22, 234.	0.8	7
87	Separation of 2-phenylethanol (PEA) from water using ionic liquids. Fluid Phase Equilibria, 2016, 423, 109-119.	1.4	16
88	Interactions of polyvinylpyrrolidone with imidazolium based ionic liquids: Spectroscopic and Density Functional Theory studies. Journal of Molecular Liquids, 2016, 213, 13-16.	2.3	17
89	Molecular interactions between ammonium-based ionic liquids and molecular solvents: current progress and challenges. Physical Chemistry Chemical Physics, 2016, 18, 8278-8326.	1.3	40
90	Synthesis of inexpensive chiral half-sandwich nickel N-heterocyclic carbene complexes: X-ray diffraction study of the D-menthyl-functionalized complex [Ni(iPr 2 Ph-NHC-CH 2 OMent)ClCp]. Journal of Organometallic Chemistry, 2016, 808, 57-62.	0.8	13
91	Toxicity of Ionic Liquids. , 2016, , 403-421.		10
92	Palladium complexes with chiral imidazole ligands as potential catalysts for asymmetric CC coupling reactions. Inorganica Chimica Acta, 2017, 455, 595-599.	1.2	13
93	Anti-bacterial, catalytic and docking behaviours of novel di/trimeric imidazolium salts. Journal of Molecular Liquids, 2017, 233, 452-464.	2.3	14
94	Antifungal activity of ionic liquids based on (â^')-menthol: a mechanism study. Microbiological Research, 2017, 197, 56-64.	2.5	61
95	Physical-chemical properties of chiral ionic liquids derived from the phenylethylamine enantiomers. Journal of Molecular Liquids, 2017, 236, 435-444.	2.3	12

#	Article	IF	Citations
96	Renewable sources from plants as the starting material for designing new terpene chiral ionic liquids used for the chromatographic separation of acidic enantiomers. RSC Advances, 2017, 7, 32344-32356.	1.7	27
97	Synthesis of zinc oxide nanocomposites using poly (ionic liquids) based on quaternary ammonium acrylamidomethyl propane sulfonate for water treatment. Journal of Molecular Liquids, 2017, 236, 38-47.	2.3	29
98	Cholesteric gratings induced by electric field in mixtures of liquid crystal and novel chiral ionic liquid. Liquid Crystals, 2017, 44, 911-923.	0.9	9
99	Synthesis and spectroscopic properties of symmetrical ionic liquids based on (â^')-menthol. Journal of Molecular Liquids, 2017, 226, 63-70.	2.3	5
100	Chiral pyrrolidinium salts derived from menthol as precursor â€“ synthesis and properties. Polish Journal of Chemical Technology, 2017, 19, 92-98.	0.3	3
101	Evaluation and correlation of separation heptane/ethanol with ionic liquids. Ternary liquid-liquid phase equilibrium data. Journal of Molecular Liquids, 2018, 255, 504-512.	2.3	9
102	Separation of binary mixtures based on limiting activity coefficients data using specific ammonium-based ionic liquid and modelling of thermodynamic functions. Fluid Phase Equilibria, 2018, 460, 155-161.	1.4	2
103	Ionic liquids as bioactive chemical tools for use in agriculture and the preservation of agricultural products. Green Chemistry, 2018, 20, 4764-4789.	4.6	68
104	Toward Designing â€œSweetâ€•Ionic Liquids Containing a Natural Terpene Moiety as Effective Wood Preservatives. ACS Sustainable Chemistry and Engineering, 2019, 7, 15628-15639.	3.2	19
105	Synthesis, Properties, and Antimicrobial Activity of 1-Alkyl-4-hydroxy-1-methylpiperidinium Ionic Liquids with Mandelate Anion. ACS Sustainable Chemistry and Engineering, 2019, 7, 15053-15063.	3.2	21
106	Viscosity of Typical Room-Temperature Ionic Liquids: A Critical Review. Journal of Physical and Chemical Reference Data, 2019, 48, .	1.9	46
107	Antibacterial activities of N-alkyl imidazolium-based poly(ionic liquid) nanoparticles. Polymer Chemistry, 2019, 10, 209-218.	1.9	59
108	Biochemical Responses of Wheat Seedlings on the Introduction of Selected Chiral Ionic Liquids to the Soils. Journal of Agricultural and Food Chemistry, 2019, 67, 3086-3095.	2.4	16
109	Anilinium Salts in Polymer Networks for Materials with Mechanical Stability and Mild Thermally Induced Dynamic Properties. ACS Macro Letters, 2019, 8, 95-100.	2.3	51
110	Predictive methods and semi-classical Equations of State for pure ionic liquids: A review. Journal of Chemical Thermodynamics, 2019, 130, 47-94.	1.0	34
111	Multifunctional hydrogel based on ionic liquid with antibacterial performance. Journal of Molecular Liquids, 2020, 299, 112185.	2.3	36
112	Ionic Liquids with Natural Origin Component: A Path to New Plant Protection Products. ACS Sustainable Chemistry and Engineering, 2020, 8, 842-852.	3.2	31
113	Exploring the Potential of Supported Ionic Liquids as Building Block Systems in Catalysis. ChemistrySelect, 2020, 5, 12057-12086.	0.7	16

#	Article	IF	Citations
114	Recent Progress in Synthesis and Applications of Tunable Materials and Nanomaterials Based on Organic Salts. ChemistrySelect, 2020, 5, 13033-13053.	0.7	8
115	Synthesis, characterization, optical and anti-bacterial properties of benzothiazole Schiff bases and their lanthanide (III) complexes. Journal of Saudi Chemical Society, 2020, 24, 925-933.	2.4	26
116	Ionic Liquids Toxicityâ€"Benefits and Threats. International Journal of Molecular Sciences, 2020, 21, 6267.	1.8	169
117	Terpene-Based Ionic Liquids from Natural Renewable Sources As Selective Agents in Antifungal Therapy. ACS Biomaterials Science and Engineering, 2020, 6, 3832-3842.	2.6	15
118	New alkoxymethyl-functionalized pyridinium-based chiral ionic liquids: synthesis, characterization and properties. Chemical Papers, 2020, 74, 2951-2963.	1.0	14
119	Biodegradable Surface Active D-Glucose Based Quaternary Ammonium Ionic Liquids in the Solventless Synthesis of Chloroprene. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	10
120	Antiadhesive Properties of Imidazolium Ionic Liquids Based on (â^')-Menthol Against Candida spp.. International Journal of Molecular Sciences, 2021, 22, 7543.	1.8	6
121	Synthesis, characterization, antimicrobial activity and computational exploration of ortho toludinium carboxylate ionic liquids. Journal of Molecular Structure, 2021, 1245, 131087.	1.8	23
122	Constructing fused N-heterocycles from unprotected mesoionic N-heterocyclic olefins and organic azides via diazo transfer. Chemical Communications, 2021, 57, 6137-6140.	2.2	13
123	Ionic Liquids and Relative Process Design. Structure and Bonding, 2009, , 143-191.	1.0	8
124	CHAPTER 6. Biocatalysis in Ionic Liquids. RSC Green Chemistry, 2015, , 136-177.	0.0	1
125	Chiral ionic liquids with a (â^')-menthol component as wood preservatives. Holzforschung, 2017, 71, 751-757.	0.9	10
126	Laccase activity and stability in the presence of menthol-based ionic liquids.. Acta Biochimica Polonica, 2013, 60, .	0.3	19
128	Nontoxic Ionic Liquids: Emerging Substitute for Classical Antimicrobial Materials. , 2019, , 1-40.		1
129	The Possibility to Obtain a New Generation of Ionic Liquids Starting From Natural Compounds. , 2008, , 13-35.		2
130	On the Miscibility of Nematic Liquid Crystals with Ionic Liquids and Joint Reaction for High Helical Twisting Power Product(s). Materials, 2022, 15, 157.	1.3	2
131	Recent advances of mesoionic N-heterocyclic olefins. Dalton Transactions, 2022, 51, 9191-9198.	1.6	18
132	Ionic Liquids, Ionic Liquid Nanoparticles, and Nanocomposites: The Future Antibiotics. , 2022, , 401-415.		0

#	Article	IF	Citations
133	Ionic liquids and organic salts with antimicrobial activity as a strategy against resistant microorganisms. Journal of Molecular Liquids, 2022, 368, 120750.	2.3	11
134	Efficient Antibacterial Dimeric Nitro Imidazolium Type of Ionic Liquids from a Simple Synthetic Approach. ACS Omega, 2022, 7, 44458-44469.	1.6	6
136	Nontoxic Ionic Liquids: Emerging Substitute for Classical Antimicrobial Materials. , 2022, , 951-989.		0