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## Hydrophobic, Highly Conductive Ambient-Temperature Molten Salts

DOI: 10.1021/ic951325x

Inorganic Chemistry, 1996, 35, 1168-1178.

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2364	The Electrical Conductivity of Barium Titanate Single Crystals. <b>1960</b> , 76, 93-98		38
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2033	Thermal stability of low temperature ionic liquids revisited. <b>2004</b> , 412, 47-53	380
2032	Recyclable organotungsten Lewis acid and microwave assisted Diels-Alder reactions in water and in ionic liquids. <b>2004</b> , 60, 11903-11909	40
2031	Multi-colored dye-sensitized solar cells. <b>2004</b> , 164, 67-73	77
2030	High performance dye-sensitized solar cells using ionic liquids as their electrolytes. <b>2004</b> , 164, 87-92	270

2029	A new alkyl-imidazole polymer prepared as an ionic polymer electrolyte by in situ polymerization of dye sensitized solar cells. <b>2004</b> , 164, 81-85	75
2028	Photolytic degradation of chlorinated phenols in room temperature ionic liquids. <b>2004</b> , 165, 229-240	67
2027	Temperature dependence of viscosity for room temperature ionic liquids. <b>2004</b> , 568, 167-181	320
2026	Electrochemical synthesis and in situ spectroelectrochemical characterization of poly(3,4-ethylenedioxythiophene) (PEDOT) in room temperature ionic liquids. <b>2004</b> , 570, 113-122	134
2025	Double potential step chronoamperometry at microdisk electrodes: simulating the case of unequal diffusion coefficients. <b>2004</b> , 571, 211-221	79
2024	Imidazolium salt assisted hydrolysis of 1-chloro-2,2,2-trifluoroethane. <b>2004</b> , 125, 95-97	6
2023	Solidifying liquid electrolytes with fluorine polymer and silica nanoparticles for quasi-solid dye-sensitized solar cells. <b>2004</b> , 125, 1241-1245	99
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2021	Electroacoustics in low-temperature ionic liquids. <b>2004</b> , 275, 317-21	5
2020	Biphasic hydroformylation catalysis in ionic liquid media. <b>2004</b> , 23, 2679-2688	51
2019	Highly ion conductive flexible films composed of network polymers based on polymerizable ionic liquids. <b>2004</b> , 45, 1577-1582	246
2018	Electrochemical synthesis of polypyrrole in ionic liquids. <b>2004</b> , 45, 1447-1453	178
2017	Implementation of ionic liquids as activating media for polycondensation processes. <b>2004</b> , 45, 5031-5045	99
2016	Esterification of aliphatic acids with olefin promoted by Brønsted acidic ionic liquids. <b>2004</b> , 212, 71-75	126
2015	Highly efficient lithium composite anode with hydrophobic molten salt in seawater. <b>2004</b> , 129, 312-318	12
2014	Aluminium corrosion in room temperature molten salt. <b>2004</b> , 132, 206-208	98
2013	The preparation of quaternary ammonium-based ionic liquid containing a cyano group and its properties in a lithium battery electrolyte. <b>2004</b> , 138, 240-244	102
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2011	Counter-electrode function in nanocrystalline photoelectrochemical cell configurations. <b>2004</b> , 248, 1421-1446	389
2010	Chromatographic and spectroscopic methods for the determination of solvent properties of room temperature ionic liquids. <b>2004</b> , 1037, 49-82	557
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2008	Ionic conductivity of polymer gels deriving from alkali metal ionic liquids and negatively charged polyelectrolytes. <b>2004</b> , 49, 1797-1801	60
2007	Temperature-dependence of the low-frequency spectrum of 1-pentyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide studied by optical Kerr effect spectroscopy. <b>2004</b> , 393, 372-377	92
2006	Ionic liquids as solvents for near-infrared emitting lanthanide complexes. <b>2004</b> , 395, 306-310	80
2005	Quasi-solid-state dye sensitized solar cells with 1,3:2,4-di-O-benzylidene-D-sorbitol derivatives as low molecular weight organic gelators. <b>2004</b> , 14, 1905-1909	134
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2003	Comparison of the immobilization of chiral bis(oxazoline)copper complexes onto anionic solids and in ionic liquids. <b>2004</b> , 6, 93-98	49
2002	Syntheses, structures and properties of 1-ethyl-3-methylimidazolium salts of fluorocomplex anions. <b>2004</b> , 144-9	102
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2000	Manufacture of Dye Sensitized Solar Cell Using Titania Sol Prepared at Room Temperature by the Sol-Gel Method. <b>2004</b> , 43, 1231-1235	13
1999	Effect of Organic Cosolvents on the Solubility of Ionic Liquids in Supercritical CO <sub>2</sub> . <b>2004</b> , 49, 1597-1601	73
1998	Thermal Properties and Ionic Conductivity of Side Chain Polymers Having Imidazolium Salt. <b>2004</b> , 419, 87-95	1
1997	Amphiphilic Ruthenium Sensitizer with 4,4'-Diphosphonic Acid-2,2'-bipyridine as Anchoring Ligand for Nanocrystalline Dye Sensitized Solar Cells. <b>2004</b> , 108, 17553-17559	100
1996	Continuous Microflow Synthesis of Butyl Cinnamate by a Mizoroki-Heck Reaction Using a Low-Viscosity Ionic Liquid as the Recycling Reaction Medium. <b>2004</b> , 8, 477-481	104
1995	SELF-ASSEMBLY OF AN IONIC LIQUID AND A HYDROXYL-TERMINATED LIQUID CRYSTAL: ANISOTROPIC ION CONDUCTION IN LAYERED NANOSTRUCTURES. <b>2004</b> , 413, 99-108	46
1994	Use of room temperature ionic liquids in gas sensor design. <b>2004</b> , 76, 4583-8	341

1993	Dynamic Solvation in Room-Temperature Ionic Liquids□ <b>2004</b> , 108, 10245-10255		196
1992	Electroreduction of Oxygen in a Series of Room Temperature Ionic Liquids Composed of Group 15-Centered Cations and Anions. <b>2004</b> , 108, 7878-7886		207
1991	1-Alkyl-3-methylimidazolium Bis(perfluoroalkylsulfonyl)imide Water-Immiscible Ionic Liquids. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, E219	3.9	117
1990	Structure of the Room-Temperature Ionic Liquid/SiO <sub>2</sub> Interface Studied by Sum-Frequency Vibrational Spectroscopy. <b>2004</b> , 108, 20255-20262		151
1989	Highly Efficient Asymmetric Hetero-Diels-Alder Reactions of Carbonyl Compounds Catalyzed by Lewis Acid Platinum Complexes of Conformationally Flexible NUPHOS-Type Diphosphines. <i>Organometallics</i> , <b>2004</b> , 23, 6127-6133	3.8	20
1988	Low melting inorganic salts of alkyl-, fluoroalkyl-, alkyl ether-, and fluoroalkyl ether-substituted oxazolidine and morpholine. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 2960-6	5.1	46
1987	Specific Effects of Room Temperature Ionic Liquids on Cleavage Reactivity: Example of the Carbon-Halogen Bond Breaking in Aromatic Radical Anions. <b>2004</b> , 108, 6175-6182		56
1986	Voltammetric Studies with Adhered Microparticles and the Detection of a Dependence of Organometallic Cis+ → Trans+ First-Order Isomerization Rate Constants on the Identity of the Ionic Liquid. <b>2004</b> , 108, 7363-7372		16
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1983	Liquid Phase Behavior of Imidazolium-Based Ionic Liquids with Alcohols. <b>2004</b> , 108, 5113-5119		355
1982	Regular Solution Theory and CO <sub>2</sub> Gas Solubility in Room-Temperature Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 6855-6860	3.9	251
1981	Low melting N-4-functionalized-1-alkyl or polyfluoroalkyl-1,2,4-triazolium salts. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 361-7	5.1	49
1980	Enantioselective hydrogenation of imines in ionic liquid/carbon dioxide media. <b>2004</b> , 126, 16142-7		206
1979	Influence of Ionic Liquids on the Phase Behavior of Aqueous Azeotropic Systems. <b>2004</b> , 49, 852-857		183
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1976	Kinetic Analysis of the Reaction between Electrogenerated Superoxide and Carbon Dioxide in the Room Temperature Ionic Liquids 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and Hexyltriethylammonium Bis(trifluoromethylsulfonyl)imide. <b>2004</b> , 108, 3947-3954		77

1975	Gas Solubilities in Room-Temperature Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 3049-3054	3.9	286
1974	Aqueous-organic phase transfer of gold nanoparticles and gold nanorods using an ionic liquid. <b>2004</b> , 126, 5036-7		212
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1971	Extraction of cesium ions from aqueous solutions using calix[4]arene-bis(tert-octylbenzo-crown-6) in ionic liquids. <b>2004</b> , 76, 3078-83		239
1970	Triazine-Based Polyfluorinated Triquatery Liquid Salts: Synthesis, Characterization, and Application as Solvents in Rhodium(I)-Catalyzed Hydroformylation of 1-Octene. <i>Organometallics</i> , <b>2004</b> , 23, 783-791	3.8	40
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1968	Electroanalytical determination of trace chloride in room-temperature ionic liquids. <b>2004</b> , 76, 1998-2003		106
1967	Organometallic Complexes Derived from Alkyne-Functionalized Imidazolium Salts. <i>Organometallics</i> , <b>2004</b> , 23, 1622-1628	3.8	52
1966	Vapor Pressures of the 1-Butyl-3-methylimidazolium Bromide + Water, 1-Butyl-3-methylimidazolium Tetrafluoroborate + Water, and 1-(2-Hydroxyethyl)-3-methylimidazolium Tetrafluoroborate + Water Systems. <b>2004</b> , 49, 1550-1553		107
1965	Molecular Dynamics Study of Polarity in Room-Temperature Ionic Liquids. <b>2004</b> , 108, 1072-1079		130
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1963	Solvent extraction of sr <sup>2+</sup> and cs <sup>+</sup> based on room-temperature ionic liquids containing monoaza-substituted crown ethers. <b>2004</b> , 76, 2773-9		252
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1959	Imidazolium ion-terminated self-assembled monolayers on Au: effects of counteranions on surface wettability. <b>2004</b> , 126, 480-1		221
1958	Modeling of Activity Coefficients of Aqueous Solutions of Quaternary Ammonium Salts with the Electrolyte-NRTL Equation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 815-825	3.9	67



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1956	A Binary Ionic Liquid Electrolyte to Achieve 7% Power Conversion Efficiencies in Dye-Sensitized Solar Cells. <b>2004</b> , 16, 2694-2696	335
1955	The first (ferrocenylmethyl)imidazolium and (ferrocenylmethyl)triazolium room temperature ionic liquids. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 3406-12	5.1 111
1954	Raman and Infrared Spectra and ab Initio Calculations of C2-4MIM Imidazolium Hexafluorophosphate Ionic Liquids. <b>2004</b> , 108, 13177-13184	381
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1949	Preparation of aryl allyl ether in the recyclable ionic liquid [bmim]PF <sub>6</sub> . <b>2004</b> , 2004, 328-328	1
1948	Non-acid catalytic acetalisation of aldehydes with diols in ionic liquids. <b>2004</b> , 2004, 773-774	8
1947	Ionic liquids as novel solvents for ionic polymer transducers. <b>2004</b> ,	6
1946	Synthesis of propylene carbonate from carbon dioxide and propylene oxide using ionic liquids. <b>2004</b> , 153, 267-270	1
1945	Allylimidazolium Halides as Novel Room Temperature Ionic Liquids. <b>2004</b> , 33, 1360-1361	84
1944	Effect of Methyl Groups onto Imidazolium Cation Ring on Liquid Crystallinity and Ionic Conductivity of Amphiphilic Ionic Liquids. <b>2004</b> , 33, 1630-1631	52
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1928	Conducting and Magnetic Properties of 1-Ethyl-3-methylimidazolium (EMI) Salts Containing Paramagnetic Ions: Liquids [EMI][MIIICl <sub>4</sub> ] (M = Fe and Fe <sub>0.5</sub> Ga <sub>0.5</sub> ) and Solid [EMI] <sub>2</sub> [FeIIICl <sub>4</sub> ]. <b>2005</b> , 78, 1921-1928	72
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1896	Electroreduction of N-methylphthalimide in room temperature ionic liquids under insolated and silent conditions. <b>2005</b> , 12, 423-8	22
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1880	Ion conducting behaviour of polymer electrolytes containing ionic liquids. <b>2005</b> , 414, 34-39	56
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850	The local composition behavior in binary solutions of diethylamine acetate ionic liquid. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 213, 139-144	6	9
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848	Towards safer sodium-ion batteries via organic solvent/ionic liquid based hybrid electrolytes. <b>2016</b> , 324, 712-721		57
847	Elucidating Anion Effect on Nanostructural Organization of Dicationic Imidazolium-Based Ionic Liquids. <b>2016</b> , 120, 14402-14409		11
846	Alcohols as molecular probes in ionic liquids: evidence for nanostructuring. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 19267-75	3.6	7
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829	Formation of Multicompartment Ion Gels by Stepwise Self-Assembly of a Thermoresponsive ABC Triblock Terpolymer in an Ionic Liquid. <b>2016</b> , 49, 2298-2306	43
828	Understanding the hydrogen bonds in ionic liquids and their roles in properties and reactions. <b>2016</b> , 52, 6744-64	187
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784	Thermophysical and transport properties of blends of an ether-derivatized imidazolium ionic liquid and a Li <sup>+</sup> -based solvate ionic liquid. <b>2017</b> , 52, 3719-3740		7
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776	Bolaamphiphilic liquid crystals based on bis-imidazolium cations. <b>2017</b> , 41, 2604-2613		13
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