

Energy applications of ionic liquids

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Conformations and Vibrational Assignments of the (Fluorosulfonyl)(trifluoromethanesulfonyl)imide Anion in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24206-24212.	3.1	24
2	αμ-â-ç•™â-Ĵâf>æ»žâœë~. <i>Electrochemistry</i> , 2013, 81, 1014-1015.	1.4	0
3	Molecular modification of highly degenerate semiconductor as an active electrode to enhance the performance of supercapacitors. <i>Materials Research Express</i> , 2014, 1, 045508.	1.6	16
4	Challenges and opportunities in computer aided molecular design. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 25-34.	0.5	1
5	Enhanced thermo-electrochemical power using carbon nanotube additives in ionic liquid redox electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20676-20682.	10.3	50
7	Ionic liquid electrolytes as a platform for rechargeable metalâ€air batteries: a perspective. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18658-18674.	2.8	128
8	Molten salt of lithium bis(fluorosulfonyl)imide (LiFSI)-potassium bis(fluorosulfonyl)imide (KFSI) as electrolyte for the natural graphite/LiFePO ₄ lithium-ion cell. <i>Electrochimica Acta</i> , 2014, 135, 217-223.	5.2	24
9	Efficient Reduction of CO ₂ to CO with High Current Density Using in Situ or ex Situ Prepared Bi-Based Materials. <i>Journal of the American Chemical Society</i> , 2014, 136, 8361-8367.	13.7	259
10	Enhanced storage capability and kinetic processes by pores- and hetero-atoms- riched carbon nanobubbles for lithium-ion and sodium-ion batteries anodes. <i>Nano Energy</i> , 2014, 4, 81-87.	16.0	227
11	Electrochemical studies of acetonitrile based supercapacitor electrolytes containing alkali and alkaline earth metal cations. <i>Electrochimica Acta</i> , 2014, 150, 173-187.	5.2	15
12	Research Development on Sodium-Ion Batteries. <i>Chemical Reviews</i> , 2014, 114, 11636-11682.	47.7	4,970
13	Electrocatalytic reduction of carbon dioxide on conducting glass electrode modified with polymeric porphyrin films containing transition metals in ionic liquid medium. <i>Journal of Coordination Chemistry</i> , 2014, 67, 4090-4100.	2.2	23
14	Insights into the reversible oxygen reduction reaction in a series of phosphonium-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25062-25070.	2.8	27
15	An interface nanostructured array guided high performance electrochemical actuator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16836-16841.	10.3	50
16	Investigation of ionic liquids for efficient removal and reliable storage of radioactive iodine: a halogen-bonding case. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5071-5075.	2.8	53
17	An organic ionic plastic crystal electrolyte for rate capability and stability of ambient temperature lithium batteries. <i>Energy and Environmental Science</i> , 2014, 7, 3352-3361.	30.8	122
18	Targeting adequate thermal stability and fire safety in selecting ionic liquid-based electrolytes for energy storage. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1967-1976.	2.8	75
19	High performance of thick amorphous columnar monolithic film silicon anodes in ionic liquid electrolytes at elevated temperature. <i>RSC Advances</i> , 2014, 4, 48572-48575.	3.6	17

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20	Polyoxometalate Ionic Liquids as Self-Repairing Acid-Resistant Corrosion Protection. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13596-13599.	13.8	86
21	Synthesis, Characterization, and Properties of Ether-Functionalized 1,3-Dialkylimidazolium Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16633-16643.	3.7	32
22	Playing with ionic liquid mixtures to design engineered CO ₂ separation membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17172.	2.8	70
23	Electrochemistry of Magnesium Electrolytes in Ionic Liquids for Secondary Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18033-18039.	8.0	96
24	Silylated quaternary ammonium salts " ionic liquids with hydrophobic cations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15964-15971.	10.3	5
25	Electrochemical degradation of butyltrimethylammonium bis(trifluoromethylsulfonyl)imide for lithium battery applications. <i>New Journal of Chemistry</i> , 2014, 38, 3879.	2.8	5
26	Theoretical Study on the Solvation of C60 Fullerene by Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11330-11340.	2.6	25
27	Distillable Protic Ionic Liquids for Keratin Dissolution and Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1888-1894.	6.7	89
28	Ionic liquids and ultrasound in combination: synergies and challenges. <i>Chemical Society Reviews</i> , 2014, 43, 8132-8149.	38.1	118
29	Ionic liquid-doped poly(3,4-ethylenedioxythiophene) counter electrodes for dye-sensitized solar cells: Cationic and anionic effects on the photovoltaic performance. <i>Nano Energy</i> , 2014, 9, 1-14.	16.0	50
30	Solute-solvent interactions of glycine, l-alanine, and l-valine in aqueous 1-methyl-3-octylimidazolium chloride ionic liquid solutions in the temperature interval (288.15-308.15)K. <i>Thermochimica Acta</i> , 2014, 590, 127-137.	2.7	50
31	Flexible solid-state electrochemical supercapacitors. <i>Nano Energy</i> , 2014, 8, 274-290.	16.0	734
32	Ionicity of acetate-based protic ionic liquids: evidence for both liquid and gaseous phases. <i>New Journal of Chemistry</i> , 2014, 38, 3449-3456.	2.8	38
33	Progress in the use of ionic liquids as electrolyte membranes in fuel cells. <i>Journal of Membrane Science</i> , 2014, 469, 379-396.	8.2	244
34	Negative electrodes for Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15007.	2.8	555
35	Energy Storage Materials Synthesized from Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13342-13359.	13.8	228
36	Ionic Liquids in Pharmaceutical Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 527-546.	6.8	331
37	On the origin of ionicity in ionic liquids. Ion pairing versus charge transfer. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16880-16890.	2.8	191

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38	Quasi-anhydrous proton conducting di-ureasil hybrid electrolytes incorporating a protic ionic liquid. <i>Electrochimica Acta</i> , 2014, 147, 288-293.	5.2	6
39	Assessing Ionic Liquids Experimental Data Using Molecular Modeling: [C _{sub>4</sub>] [BF_{sub>4</sub>] Case Study. <i>Journal of Chemical & Engineering Data</i>, 2014, 59, 3220-3231.}}	1.9	47
40	Lithium Ion Transport and Solvation in <i>N</i> -Butyl- <i>N</i> -methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide/Propylene Carbonate Mixtures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5742-5748.	3.1	66
41	Complex Nature of Ionic Coordination in Magnesium Ionic Liquid-Based Electrolytes: Solvates with Mobile Mg ²⁺ Cations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9966-9973.	3.1	121
42	Theory for Anomalous Electric Double-Layer Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8766-8774.	3.1	25
43	Physicochemical Properties of Three Ionic Liquids Containing a Tetracyanoborate Anion and Their Lithium Salt Mixtures. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8772-8781.	2.6	34
44	Novel hybrid micro-supercapacitor based on conducting polymer coated silicon nanowires for electrochemical energy storage. <i>RSC Advances</i> , 2014, 4, 26462-26467.	3.6	63
45	Spatial Structure of Electrical Diffuse Layers in Highly Concentrated Electrolytes: A Modified Poisson-Nernst-Planck Approach. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5716-5724.	3.1	32
46	Solvent-Modulated Formation of α -Pac-man and Capsular Host-Guest Bilayers from a Dicationic Ionic Liquid and <i>N</i> -Butylpyrogallol[4]arene. <i>Crystal Growth and Design</i> , 2014, 14, 4199-4204.	3.0	10
47	Enhanced catalytic performance of Pd catalyst for formic acid electrooxidation in ionic liquid aqueous solution. <i>Journal of Power Sources</i> , 2014, 272, 606-613.	7.8	17
48	Mixtures of protic ionic liquids and propylene carbonate as advanced electrolytes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25014-25023.	2.8	59
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50	Highly Stable Dye-Sensitized Solar Cells Based on Novel 1,2,3-Triazolium Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13571-13577.	8.0	33
51	Influence of Ionic Liquid Selection on the Properties of Poly(Ethylene Glycol) Diacrylate-Supported Ionogels as Solid Electrolytes. <i>ChemElectroChem</i> , 2014, 1, 718-721.	3.4	26
52	Ionic liquids for energy, materials, and medicine. <i>Chemical Communications</i> , 2014, 50, 9228-9250.	4.1	447
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54	Tough BMIMCl-based ionogels exhibiting excellent and adjustable performance in high-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11569.	10.3	91
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59	Molecular simulation of homogeneous nucleation of crystals of an ionic liquid from the melt. Journal of Chemical Physics, 2015, 143, 124506.	3.0	11
60	Seebeck effect in a battery-type thermocell. Applied Physics Letters, 2015, 107, .	3.3	9
61	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. ChemSusChem, 2015, 8, 2284-2311.	6.8	259
62	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. ChemSusChem, 2015, 8, 2154-2175.	6.8	641
63	Design Considerations for Unconventional Electrochemical Energy Storage Architectures. Advanced Energy Materials, 2015, 5, 1402115.	19.5	271
65	Sulfated Carbon Quantum Dots as Efficient Visible-Light Switchable Acid Catalysts for Room-Temperature Ring-Opening Reactions. Angewandte Chemie - International Edition, 2015, 54, 8420-8424.	13.8	68
66	Improved Electrochemical Performance of a ZnFe ₂ O ₄ Nanoflake-Based Supercapacitor Electrode by Using Thiocyanate-Functionalized Ionic Liquid Electrolytes. European Journal of Inorganic Chemistry, 2015, 2015, 5832-5838.	2.0	27
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68	Significance of Surface Trivalent Manganese in the Electrocatalytic Activity of Water Oxidation in Undoped and Doped MnO ₂ Nanowires. ChemCatChem, 2015, 7, 1848-1856.	3.7	44
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70	New methodology for the thermal characterization of thermoelectric liquids. Review of Scientific Instruments, 2015, 86, 094901.	1.3	9
71	Atomistic simulations of ammonium-based protic ionic liquids: steric effects on structure, low frequency vibrational modes and electrical conductivity. Physical Chemistry Chemical Physics, 2015, 17, 4625-4633.	2.8	36
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74	Ionic Liquids and Polymers in Energy. , 2015, , 199-229.		2
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76	Characterization of the Bridged Proton Structure in HTFSI Acid Ionic Liquid Solutions. Journal of Physical Chemistry B, 2015, 119, 6304-6310.	2.6	14

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78	Room Temperature Ionic Liquid-based Electrolytes as an Alternative to Carbonate-based Electrolytes. Israel Journal of Chemistry, 2015, 55, 586-598.	2.3	45
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81	Simultaneous determination of morphine and codeine using Pt nanoparticles supported on porous silicon flour modified ionic liquid carbon paste electrode. Sensors and Actuators B: Chemical, 2015, 219, 1-9.	7.8	51
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84	Large-Scale, Highly Efficient, and Green Liquid-Exfoliation of Black Phosphorus in Ionic Liquids. ACS Applied Materials & Interfaces, 2015, 7, 27608-27612.	8.0	165
85	Low-viscosity ether-functionalized pyrazolium ionic liquids based on dicyanamide anions: properties and application as electrolytes for lithium metal batteries. RSC Advances, 2015, 5, 93888-93899.	3.6	18
86	Passivation behaviour of 304 stainless steel in an ionic liquid with a fluorinated anion. Applied Surface Science, 2015, 357, 37-44.	6.1	16
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89	Assessing the mutagenicity of protic ionic liquids using the mini Ames test. Sustainable Chemical Processes, 2015, 3, .	2.3	11
90	Interfacial Properties of Double Salt Ionic Liquids: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2015, 119, 28405-28416.	3.1	25
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97	Crystalline Complexes of Pyr ₁₂ O ₁ TFSI-Based Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2015, 119, 5878-5887.	3.1	11
98	Mediating Gel Formation from Structurally Controlled Poly(Electrolytes) Through Multiple π -Head-to-Body π -Electrostatic Interactions. Macromolecular Rapid Communications, 2015, 36, 55-59.	3.9	7
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106	Compatibility of LiMn ₂ O ₄ cathode with electrolyte based on low-viscosity ether-functionalized pyrazolium ionic liquid. Journal of Applied Electrochemistry, 2015, 45, 235-244.	2.9	11
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109	Reactivity of the Ionic Liquid Pyr ₁₄ TFSI with Superoxide Radicals Generated from KO ₂ or by Contact of O ₂ with Li ₇ Ti ₅ O ₁₂ . Journal of the Electrochemical Society, 2015, 162, A905-A914.	2.9	34
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111	Determination of Mg ²⁺ Speciation in a TFSI ⁻ -Based Ionic Liquid With and Without Chelating Ethers Using Raman Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 7003-7014.	2.6	79
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119	Glass transition dynamics and conductivity scaling in ionic deep eutectic solvents: The case of (acetamide + lithium nitrate/sodium thiocyanate) melts. Journal of Chemical Physics, 2015, 142, 184504.	3.0	46
120	Electrocatalysis in Room Temperature Ionic Liquids. , 2015, , 483-506.		3
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132	Ammonium-based protic ionic liquid doped Nafion membranes as anhydrous fuel cell electrolytes. Journal of Materials Chemistry A, 2015, 3, 12905-12912.	10.3	20
133	Deep Eutectic Solvents: Physicochemical Properties and Gas Separation Applications. Energy & Fuels, 2015, 29, 2616-2644.	5.1	777
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151	Toward Prediction of the Chemistry in Ionic Liquids: An Accurate Computation of Absolute p <i>K_a</i> Values of Benzoic Acids and Benzenethiols. Journal of Organic Chemistry, 2015, 80, 8997-9006.	3.2	19
152	Effect of formation of a long range secondary dendritic nanostructures in molten salt nanofluids on the values of specific heat capacity. International Journal of Heat and Mass Transfer, 2015, 91, 342-346.	4.8	53
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