

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.	1.5	24
2	αμ-â-ç•™â-ĵâf>æ»žâœë~. <i>Electrochemistry</i> , 2013, 81, 1014-1015.	0.6	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.	0.8	16
4	Challenges and opportunities in computer aided molecular design. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 25-34.	0.3	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.	5.2	50
7	Ionic liquid electrolytes as a platform for rechargeable metal-air batteries: a perspective. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18658-18674.	1.3	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.	2.6	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.	6.6	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.	8.2	227
11	Electrochemical studies of acetonitrile based supercapacitor electrolytes containing alkali and alkaline earth metal cations. <i>Electrochimica Acta</i> , 2014, 150, 173-187.	2.6	15
12	Research Development on Sodium-Ion Batteries. <i>Chemical Reviews</i> , 2014, 114, 11636-11682.	23.0	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.	0.8	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.	1.3	27
15	An interface nanostructured array guided high performance electrochemical actuator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16836-16841.	5.2	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.	1.3	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.	15.6	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.	1.3	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.	1.7	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.	7.2	86
21	Synthesis, Characterization, and Properties of Ether-Functionalized 1,3-Dialkylimidazolium Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16633-16643.	1.8	32
22	Playing with ionic liquid mixtures to design engineered CO ₂ separation membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17172.	1.3	70
23	Electrochemistry of Magnesium Electrolytes in Ionic Liquids for Secondary Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18033-18039.	4.0	96
24	Silylated quaternary ammonium salts as ionic liquids with hydrophobic cations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15964-15971.	5.2	5
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26	Theoretical Study on the Solvation of C ₆₀ Fullerene by Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11330-11340.	1.2	25
27	Distillable Protic Ionic Liquids for Keratin Dissolution and Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1888-1894.	3.2	89
28	Ionic liquids and ultrasound in combination: synergies and challenges. <i>Chemical Society Reviews</i> , 2014, 43, 8132-8149.	18.7	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.	8.2	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.	1.2	50
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36	Ionic Liquids in Pharmaceutical Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 527-546.	3.3	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.	1.3	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.	2.6	6
39	Assessing Ionic Liquids Experimental Data Using Molecular Modeling: [C _n mim][BF ₄] Case Study. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 3220-3231.	1.0	47
40	Lithium Ion Transport and Solvation in N-Butyl-N-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide/Propylene Carbonate Mixtures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5742-5748.	1.5	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.	1.5	121
42	Theory for Anomalous Electric Double-Layer Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8766-8774.	1.5	25
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44	Novel hybrid micro-supercapacitor based on conducting polymer coated silicon nanowires for electrochemical energy storage. <i>RSC Advances</i> , 2014, 4, 26462-26467.	1.7	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.	1.5	32
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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.	1.3	59
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59	Molecular simulation of homogeneous nucleation of crystals of an ionic liquid from the melt. <i>Journal of Chemical Physics</i> , 2015, 143, 124506.	1.2	11
60	Seebeck effect in a battery-type thermocell. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	9
61	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. <i>ChemSusChem</i> , 2015, 8, 2284-2311.	3.6	259
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69	Recent Advances in Anhydrous Solvents for CO ₂ Capture: Ionic Liquids, Switchable Solvents, and Nanoparticle Organic Hybrid Materials. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	57
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72	Structure and Nanostructure in Ionic Liquids. <i>Chemical Reviews</i> , 2015, 115, 6357-6426.	23.0	1,793
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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. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 1-9.	4.0	51
82	Overview of the effect of monomers and green solvents on thermoresponsive copolymers: phase transition temperature and surface properties. <i>RSC Advances</i> , 2015, 5, 86901-86909.	1.7	6
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84	Large-Scale, Highly Efficient, and Green Liquid-Exfoliation of Black Phosphorus in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27608-27612.	4.0	165
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97	Crystalline Complexes of Pyr ₁₂ O ₁ TFSI-Based Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5878-5887.	1.5	11
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115	In Situ Atomic Force Microscopic Studies of the Interfacial Multilayer Nanostructure of LiTFSI/[Py ₄ TFSI] on Au(111): Influence of Li ⁺ Ion Concentration on the Au(111)/IL Interface. Journal of Physical Chemistry C, 2015, 119, 16734-16742.	1.5	48
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