Masayoshi Watanabe

List of Publications by Year
in descending order

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499	38,704	2423	3563
papers	citations	97 h-index	181 g-index

513	513	513	21143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physicochemical Properties and Structures of Room Temperature Ionic Liquids. 2. Variation of Alkyl Chain Length in Imidazolium Cation. Journal of Physical Chemistry B, 2005, 109, 6103-6110.	1.2	1,552
2	Energy applications of ionic liquids. Energy and Environmental Science, 2014, 7, 232-250.	15.6	1,455
3	Physicochemical Properties and Structures of Room Temperature Ionic Liquids. 1. Variation of Anionic Species. Journal of Physical Chemistry B, 2004, 108, 16593-16600.	1.2	1,234
4	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	23.0	1,214
5	How Ionic Are Room-Temperature Ionic Liquids? An Indicator of the Physicochemical Properties. Journal of Physical Chemistry B, 2006, 110, 19593-19600.	1.2	1,106
6	Pulsed-Gradient Spinâ^'Echo1H and19F NMR Ionic Diffusion Coefficient, Viscosity, and Ionic Conductivity of Non-Chloroaluminate Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2001, 105, 4603-4610.	1.2	963
7	Ion Gels Prepared by in Situ Radical Polymerization of Vinyl Monomers in an Ionic Liquid and Their Characterization as Polymer Electrolytes. Journal of the American Chemical Society, 2005, 127, 4976-4983.	6.6	874
8	Oxidative-Stability Enhancement and Charge Transport Mechanism in Glymeâ€“Lithium Salt Equimolar Complexes. Journal of the American Chemical Society, 2011, 133, 13121-13129.	6.6	663
9	BrÃ¸nsted Acidâ^'Base Ionic Liquids as Proton-Conducting Nonaqueous Electrolytes. Journal of Physical Chemistry B, 2003, 107, 4024-4033.	1.2	652
10	Physicochemical Properties and Structures of Room-Temperature Ionic Liquids. 3. Variation of Cationic Structures. Journal of Physical Chemistry B, 2006, 110, 2833-2839.	1.2	593
11	Macromolecules in Ionic Liquids: Progress, Challenges, and Opportunities. Macromolecules, 2008, 41, 3739-3749.	2.2	576
12	Ionic liquids and their solid-state analogues as materials for energy generation and storage. Nature Reviews Materials, 2016, 1, .	23.3	511
13	Recent Advances in Electrolytes for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1500117.	10.2	508
14	Ionicity in ionic liquids: correlation with ionic structure and physicochemical properties. Physical Chemistry Chemical Physics, 2010, 12, 1649.	1.3	477
15	Magnitude and Directionality of Interaction in Ion Pairs of Ionic Liquids:â€‰ Relationship with Ionic Conductivity. Journal of Physical Chemistry B, 2005, 109, 16474-16481.	1.2	468
16	Nonhumidified Intermediate Temperature Fuel Cells Using Protic Ionic Liquids. Journal of the American Chemical Society, 2010, 132, 9764-9773.	6.6	426
17	Solvate Ionic Liquid Electrolyte for Liâ€“S Batteries. Journal of the Electrochemical Society, 2013, 160, A1304-A1310.	1.3	421
18	Highly conductive polymer electrolytes prepared by in situ polymerization of vinyl monomers in room temperature molten salts. Electrochimica Acta, 2000, 45, 1265-1270.	2.6	420

#	Article	IF	Citations
19	BrÃ¸nsted acidâ€“base ionic liquids and their use as new materials for anhydrous proton conductors. Chemical Communications, 2003, , 938.	2.2	386
20	Glymeâ€“Lithium Salt Equimolar Molten Mixtures: Concentrated Solutions or Solvate Ionic Liquids?. Journal of Physical Chemistry B, 2012, 116, 11323-11331.	1.2	348
21	Lithium Secondary Batteries Using Modified-Imidazolium Room-Temperature Ionic Liquid. Journal of Physical Chemistry B, 2006, 110, 10228-10230.	1.2	333
22	BrÃ¸nsted acidâ€“base ionic liquids for fuel cell electrolytes. Chemical Communications, 2007, , 2539-2541.	2.2	313
23	High performance dye-sensitized solar cells using ionic liquids as their electrolytes. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 164, 87-92.	2.0	295
24	Ionic conductivity and mobility in network polymers from poly(propylene oxide) containing lithium perchlorate. Journal of Applied Physics, 1985, 57, 123-128.	1.1	271
25	A Thermally Adjustable Multicolor Photochromic Hydrogel. Angewandte Chemie - International Edition, 2007, 46, 1688-1692.	7.2	266
26	Physicochemical Properties of Glymeâ€“Li Salt Complexes as a New Family of Room-temperature Ionic Liquids. Chemistry Letters, 2010, 39, 753-755.	0.7	260
27	Ionic Liquid Electrolytes for Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2013, 117, 20531-20541.	1.5	259
28	Criteria for solvate ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 8761.	1.3	240
29	Simple and Precise Preparation of a Porous Gel for a Colorimetric Glucose Sensor by a Templating Technique. Angewandte Chemie - International Edition, 2003, 42, 4197-4200.	7.2	237
30	Molecular Dynamics Simulations of Ionic Liquids: Cation and Anion Dependence of Self-Diffusion Coefficients of Ions. Journal of Physical Chemistry B, 2009, 113, 10641-10649.	1.2	236
31	High Ionic Conductivity of Polyether-Based Network Polymer Electrolytes with Hyperbranched Side Chains. Macromolecules, 1999, 32, 1541-1548.	2.2	224
32	Li⁺ solvation in glymeâ€“Li salt solvate ionic liquids. Physical Chemistry Chemical Physics, 2015, 17, 8248-8257.	1.3	222
33	Protic Ionic Liquids and Salts as Versatile Carbon Precursors. Journal of the American Chemical Society, 2014, 136, 1690-1693.	6.6	216
34	Dye-Sensitized TiO2Solar Cells Using Imidazolium-Type Ionic Liquid Crystal Systems as Effective Electrolytesâ€. Journal of Physical Chemistry B, 2007, 111, 4763-4769.	1.2	211
35	Selfâ€Healing Micellar Ion Gels Based on Multiple Hydrogen Bonding. Advanced Materials, 2018, 30, e1802792.	11.1	208
36	Reversibility of electrochemical reactions of sulfur supported on inverse opal carbon in glymeâ€“Li salt molten complex electrolytes. Chemical Communications, 2011, 47, 8157.	2.2	205

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37	Physicochemical properties determined by Î”pKa for protic ionic liquids based on an organic super-strong base with various BrÃ¸nsted acids. Physical Chemistry Chemical Physics, 2012, 14, 5178.	1.3	201
38	Nanocomposite Ion Gels Based on Silica Nanoparticles and an Ionic Liquid: Ionic Transport, Viscoelastic Properties, and Microstructure. Journal of Physical Chemistry B, 2008, 112, 9013-9019.	1.2	200
39	Ionic liquid crystal as a hole transport layer of dye-sensitized solar cells. Chemical Communications, 2005, , 740.	2.2	199
40	Imidazolium-Based Room-Temperature Ionic Liquid for Lithium Secondary Batteries. Journal of the Electrochemical Society, 2007, 154, A173.	1.3	195
41	Chelate Effects in Glyme/Lithium Bis(trifluoromethanesulfonyl)amide Solvate Ionic Liquids. I. Stability of Solvate Cations and Correlation with Electrolyte Properties. Journal of Physical Chemistry B, 2014, 118, 5144-5153.	1.2	194
42	High ionic conductivity of new polymer electrolytes based on high molecular weight polyether comb polymers. Electrochimica Acta, 1998, 43, 1177-1184.	2.6	187
43	Resonance shear measurement of nanoconfined ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 4066.	1.3	186
44	Solvent Effect of Room Temperature Ionic Liquids on Electrochemical Reactions in Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2013, 117, 4431-4440.	1.5	182
45	Equilibrium potentials and charge transport of an Iâ€“/I3â€“ redox couple in an ionic liquid. Chemical Communications, 2003, , 330-331.	2.2	176
46	Change from Glyme Solutions to Quasi-ionic Liquids for Binary Mixtures Consisting of Lithium Bis(trifluoromethanesulfonyl)amide and Glymes. Journal of Physical Chemistry C, 2011, 115, 18384-18394.	1.5	174
47	Protic ionic liquids: Fuel cell applications. MRS Bulletin, 2013, 38, 560-566.	1.7	170
48	An Electroâ€•and Thermochromic Hydrogel as a Fullâ€Color Indicator. Advanced Materials, 2007, 19, 2807-2812.	11.1	169
49	Upper Limit of Nitrogen Content in Carbon Materials. Angewandte Chemie - International Edition, 2015, 54, 1302-1306.	7.2	168
50	Colloidal Stability of Bare and Polymer-Grafted Silica Nanoparticles in Ionic Liquids. Langmuir, 2008, 24, 5253-5259.	1.6	167
51	Anionic Effects on Solvate Ionic Liquid Electrolytes in Rechargeable Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2013, 117, 20509-20516.	1.5	166
52	Carbon materialization of ionic liquids: from solvents to materials. Materials Horizons, 2015, 2, 168-197.	6.4	165
53	Direct Evidence for Li Ion Hopping Conduction in Highly Concentrated Sulfolane-Based Liquid Electrolytes. Journal of Physical Chemistry B, 2018, 122, 10736-10745.	1.2	165
54	XPS study of lithium surface after contact with lithium-salt doped polymer electrolytes. Electrochimica Acta, 2001, 46, 1595-1603.	2.6	164

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55	Template Synthesis and Optical Properties of Chameleonic Poly(N-isopropylacrylamide) Gels Using Closest-Packed Self-Assembled Colloidal Silica Crystals. Advanced Materials, 2003, 15, 199-201.	11.1	160
56	Polymer Actuators Using Ion-Gel Electrolytes Prepared by Self-Assembly of ABA-Triblock Copolymers. Macromolecules, 2012, 45, 401-409.	2.2	159
57	Lower Critical Solution Temperature Behavior of Linear Polymers in Ionic Liquids and the Corresponding Volume Phase Transition of Polymer Gels. Langmuir, 2007, 23, 988-990.	1.6	157
58	Direct Synthesis of Nitrogen-Doped Carbon Materials from Protic Ionic Liquids and Protic Salts: Structural and Physicochemical Correlations between Precursor and Carbon. Chemistry of Materials, 2014, 26, 2915-2926.	3.2	156
59	Mechanism of Li Ion Desolvation at the Interface of Graphite Electrode and Glymeâ€“Li Salt Solvate Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 20246-20256.	1.5	155
60	Distinct Difference in Ionic Transport Behavior in Polymer Electrolytes Depending on the Matrix Polymers and Incorporated Salts. Journal of Physical Chemistry B, 2005, 109, 3886-3892.	1.2	154
61	Proton-Conducting Properties of a BrÃ¸nsted Acidâ^'Base Ionic Liquid and Ionic Melts Consisting of Bis(trifluoromethanesulfonyl)imide and Benzimidazole for Fuel Cell Electrolytes. Journal of Physical Chemistry C, 2007, 111, 1541-1548.	1.5	154
62	Fabrication of protic ionic liquid/sulfonated polyimide composite membranes for non-humidified fuel cells. Journal of Power Sources, 2010, 195, 5909-5914.	4.0	149
63	Electrochemical properties of polymer gel electrolytes based on poly(vinylidene fluoride) copolymer and homopolymer. Electrochimica Acta, 2000, 45, 1347-1360.	2.6	148
64	Anomaly of charge transport of an iodide/tri-iodide redox couple in an ionic liquid and its importance in dye-sensitized solar cells. Chemical Communications, 2005, , 2107.	2.2	148
65	Polymers in Ionic Liquids: Dawn of Neoteric Solvents and Innovative Materials. Bulletin of the Chemical Society of Japan, 2012, 85, 33-50.	2.0	146
66	New glymeâ€“cyclic imide lithium salt complexes as thermally stable electrolytes for lithium batteries. Journal of Power Sources, 2010, 195, 6095-6100.	4.0	144
67	Porous ionic liquids: synthesis and application. Chemical Science, 2015, 6, 3684-3691.	3.7	143
68	Upper Critical Solution Temperature Behavior of Poly(N-isopropylacrylamide) in an Ionic Liquid and Preparation of Thermo-sensitive Nonvolatile Gels. Chemistry Letters, 2006, 35, 964-965.	0.7	141
69	High ionic conductivity in poly(dimethyl siloxane-co-ethylene oxide) dissolving lithium perchlorate. Journal of Polymer Science, Polymer Letters Edition, 1984, 22, 659-663.	0.4	140
70	Effects of network structures and incorporated salt species on electrochemical properties of polyether-based polymer electrolytes. Solid State Ionics, 1995, 79, 306-312.	1.3	139
71	Sulfolane-Based Highly Concentrated Electrolytes of Lithium Bis(trifluoromethanesulfonyl)amide: Ionic Transport, Li-Ion Coordination, and Liâ€“S Battery Performance. Journal of Physical Chemistry C, 2019, 123, 14229-14238.	1.5	138
72	Chelate Effects in Glyme/Lithium Bis(trifluoromethanesulfonyl)amide Solvate Ionic Liquids, Part 2: Importance of Solvate-Structure Stability for Electrolytes of Lithium Batteries. Journal of Physical Chemistry C, 2014, 118, 17362-17373.	1.5	137

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73	From Colloidal Stability in Ionic Liquids to Advanced Soft Materials Using Unique Media. Langmuir, 2011, 27, 9105-9115.	1.6	136
74	Solvent Activity in Electrolyte Solutions Controls Electrochemical Reactions in Li-Ion and Li-Sulfur Batteries. Journal of Physical Chemistry C, 2015, 119, 3957-3970.	1.5	135
75	Ionic conductivity of hybrid films composed of polyacrylonitrile, ethylene carbonate, and LiClO4. Journal of Polymer Science, Polymer Physics Edition, 1983, 21, 939-948.	1.0	134
76	Highly reversible lithium metal secondary battery using a room temperature ionic liquid/lithium salt mixture and a surface-coated cathode active material. Chemical Communications, 2006, , 544-545.	2.2	133
77	Unusual Li⁺Ion Solvation Structure in Bis(fluorosulfonyl)amide Based Ionic Liquid. Journal of Physical Chemistry C, 2013, 117, 19314-19324.	1.5	133
78	Tuning Structural Color Changes of Porous Thermosensitive Gels through Quantitative Adjustment of the Cross-Linker in Pre-gel Solutions. Langmuir, 2003, 19, 9104-9106.	1.6	132
79	Reversibility of Lithium Secondary Batteries Using a Room-Temperature Ionic Liquid Mixture and Lithium Metal. Electrochemical and Solid-State Letters, 2005, 8, A577.	2.2	129
80	High-performance ion gel with tetra-PEG network. Soft Matter, 2012, 8, 1756-1759.	1.2	129
81	Beyond solvents and electrolytes: Ionic liquids-based advanced functional materials. Progress in Materials Science, 2016, 77, 80-124.	16.0	129
82	Ionic conductivity of polymer electrolytes and future applications. British Polymer Journal, 1988, 20, 181-192.	0.7	128
83	Colloidal Interaction in Ionic Liquids: Effects of Ionic Structures and Surface Chemistry on Rheology of Silica Colloidal Dispersions. Langmuir, 2009, 25, 825-831.	1.6	122
84	Heterogeneous Slow Dynamics of Imidazolium-Based Ionic Liquids Studied by Neutron Spin Echo. Journal of Physical Chemistry B, 2013, 117, 2773-2781.	1.2	122
85	Simple and precision design of porous gel as a visible indicator for ionic species and concentration. Chemical Communications, 2003, , 2126.	2.2	118
86	High lithium ionic conductivity of polymeric solid electrolytes. Die Makromolekulare Chemie Rapid Communications, 1981, 2, 741-744.	1.1	117
87	Polymer Gels that Memorize Structures of Mesoscopically Sized Templates. Dynamic and Optical Nature of Periodic Ordered Mesoporous Chemical Gels. Langmuir, 2002, 18, 5977-5980.	1.6	117
88	Ion transport properties of lithium ionic liquids and their ion gels. Electrochimica Acta, 2005, 50, 3872-3877.	2.6	117
89	Structural Heterogeneity and Unique Distorted Hydrogen Bonding in Primary Ammonium Nitrate Ionic Liquids Studied by High-Energy X-ray Diffraction Experiments and MD Simulations. Journal of Physical Chemistry B, 2012, 116, 2801-2813.	1.2	116
90	Preparation and transport properties of novel lithium ionic liquids. Electrochimica Acta, 2004, 50, 305-309.	2.6	114

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91	Li⁺ Solvation and Ionic Transport in Lithium Solvate Ionic Liquids Diluted by Molecular Solvents. Journal of Physical Chemistry C, 2016, 120, 15792-15802.	1.5	114
92	LCST-type liquidâ€“liquid phase separation behaviour of poly(ethylene oxide) derivatives in an ionic liquid. Chemical Communications, 2008, , 4939.	2.2	109
93	Molecular Specific Swelling Change of Hydrogels in Accordance with the Concentration of Guest Molecules. Journal of the American Chemical Society, 1998, 120, 5577-5578.	6.6	107
94	Hydrogen bonds in protic ionic liquids and their correlation with physicochemical properties. Chemical Communications, 2011, 47, 12676.	2.2	103
95	Liquid Structure of and Li⁺ Ion Solvation in Bis(trifluoromethanesulfonyl)amide Based Ionic Liquids Composed of 1-Ethyl-3-methylimidazolium and N-Methyl-N-propylpyrrolidinium Cations. Journal of Physical Chemistry B, 2011, 115, 12179-12191.	1.2	102
96	Single ion conduction in polyether electrolytes alloyed with lithium salt of a perfluorinated polyimide. Electrochimica Acta, 2000, 45, 1187-1192.	2.6	100
97	A soft glassy colloidal array in ionic liquid, which exhibits homogeneous, non-brilliant and angle-independent structural colours. Chemical Communications, 2009, , 3603.	2.2	100
98	Quaternary Ammonium Room-Temperature Ionic Liquid/Lithium Salt Binary Electrolytes: Electrochemical Study. Journal of the Electrochemical Society, 2008, 155, A421.	1.3	96
99	Ionic conductivity of polymer complexes formed by poly(ethylene succinate) and lithium perchlorate. Macromolecules, 1984, 17, 2902-2908.	2.2	94
100	Effects of Polymer Structure on Properties of Sulfonated Polyimide/Protic Ionic Liquid Composite Membranes for Nonhumidified Fuel Cell Applications. ACS Applied Materials & Interfaces, 2012, 4, 1783-1790.	4.0	94
101	Morphology and ionic conductivity of polymer complexes formed by segmented polyether poly(urethane urea) and lithium perchlorate. Macromolecules, 1985, 18, 1945-1950.	2.2	93
102	Effect of Ionic Size on Solvate Stability of Glyme-Based Solvate Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 1523-1534.	1.2	92
103	Ionic Conductivity of Network Polymers from Poly(ethylene oxide) Containing Lithium Perchlorate. Polymer Journal, 1986, 18, 809-817.	1.3	89
104	Carrier transport and generation processes in polymer electrolytes based on poly(ethylene oxide) networks. Macromolecules, 1987, 20, 569-573.	2.2	89
105	Doubly Thermosensitive Self-Assembly of Diblock Copolymers in Ionic Liquids. Macromolecules, 2009, 42, 1315-1320.	2.2	88
106	Thermal and Electrochemical Stability of Tetraglymeâ€“Magnesium Bis(trifluoromethanesulfonyl)amide Complex: Electric Field Effect of Divalent Cation on Solvate Stability. Journal of Physical Chemistry C, 2016, 120, 1353-1365.	1.5	88
107	Transport and electrochemical characterization of plasticized poly(vinyl chloride) solid electrolytes. Solid State Ionics, 1996, 86-88, 385-393.	1.3	87
108	Structures of [Li(glyme)]⁺ complexes and their interactions with anions in equimolar mixtures of glymes and Li[TFSA]: analysis by molecular dynamics simulations. Physical Chemistry Chemical Physics, 2015, 17, 126-129.	1.3	87

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109	Self-Sustaining Peristaltic Motion on the Surface of a Porous Gel. Journal of the American Chemical Society, 2003, 125, 13320-13321.	6.6	85
110	From Ionic Liquids to Solvate Ionic Liquids: Challenges and Opportunities for Next Generation Battery Electrolytes. Bulletin of the Chemical Society of Japan, 2018, 91, 1660-1682.	2.0	85
111	Ionic conductivity of polymer electrolytes containing room temperature molten salts based on pyridinium halide and aluminium chloride. Electrochimica Acta, 1995, 40, 2285-2288.	2.6	84
112	Network Polymer Electrolytes with Free Chain Ends as Internal Plasticizer. Journal of the Electrochemical Society, 1998, 145, 1521-1527.	1.3	84
113	Electric Double-Layer Capacitors Using â€œBucky Gelsâ€•Consisting of an Ionic Liquid and Carbon Nanotubes. Journal of the Electrochemical Society, 2005, 152, A1913.	1.3	83
114	Ionic conductivity of polymer complexes formed by poly(Î²-propiolactone) and lithium perchlorate. Macromolecules, 1984, 17, 2908-2912.	2.2	82
115	Li⁺ Local Structure in Hydrofluoroether Diluted Li-Glyme Solvate Ionic Liquid. Journal of Physical Chemistry B, 2016, 120, 3378-3387.	1.2	81
116	Anionic effect on ion transport properties in network polyether electrolytes. Electrochimica Acta, 2001, 46, 1487-1491.	2.6	80
117	Evaluation of ionic mobility and transference number in a polymeric solid electrolyte by isothermal transient ionic current method. Journal of Applied Physics, 1985, 58, 736-740.	1.1	79
118	Structural effects of polyethers and ionic liquids in their binary mixtures on lower critical solution temperature liquid-liquid phase separation. Polymer Journal, 2011, 43, 242-248.	1.3	79
119	Driving Mechanisms of Ionic Polymer Actuators Having Electric Double Layer Capacitor Structures. Journal of Physical Chemistry B, 2012, 116, 5080-5089.	1.2	79
120	Intermolecular Interactions in Li⁺â€glyme and Li⁺â€glymeâ€“TFSA^{â¯} Complexes: Relationship with Physicochemical Properties of [Li(glyme)][TFSA] Ionic Liquids. ChemPhysChem, 2013, 14, 1993-2001.	1.0	79
121	Gelation of Solvate Ionic Liquid by Self-Assembly of Block Copolymer and Characterization as Polymer Electrolyte. Macromolecules, 2014, 47, 6009-6016.	2.2	78
122	Structural and aggregate analyses of (Li salt + glyme) mixtures: the complex nature of solvate ionic liquids. Physical Chemistry Chemical Physics, 2015, 17, 22321-22335.	1.3	78
123	Correlation between Battery Performance and Lithium Ion Diffusion in Glymeâ€“Lithium Bis(trifluoromethanesulfonyl)amide Equimolar Complexes. Journal of the Electrochemical Society, 2012, 159, A1005-A1012.	1.3	77
124	Li-ion hopping conduction in highly concentrated lithium bis(fluorosulfonyl)amide/dinitrile liquid electrolytes. Physical Chemistry Chemical Physics, 2019, 21, 9759-9768.	1.3	77
125	High ionic conductivity of new polymer electrolytes consisting of polypyridinium, pyridinium and aluminium chloride. Journal of the Chemical Society Chemical Communications, 1993, , 929.	2.0	76
126	UCST Phase Transition of Azobenzene-Containing Random Copolymer in an Ionic Liquid. Macromolecules, 2011, 44, 6908-6914.	2.2	76

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127	BrÃ¸nsted acidâ€“base and â€“polybase complexes as electrolytes for fuel cells under non-humidifying conditions. Electrochimica Acta, 2005, 50, 4015-4021.	2.6	75
128	Proticâ€Saltâ€Derived Nitrogen/Sulfurâ€Codoped Mesoporous Carbon for the Oxygen Reduction Reaction and Supercapacitors. ChemSusChem, 2015, 8, 1608-1617.	3.6	74
129	Binary Protic Ionic Liquid Mixtures as a Proton Conductor: High Fuel Cell Reaction Activity and Facile Proton Transport. Journal of Physical Chemistry C, 2014, 118, 27631-27639.	1.5	73
130	One-pot pyrolysis of lithium sulfate and graphene nanoplatelet aggregates: in situ formed Li₂S/graphene composite for lithiumâ€sulfur batteries. Nanoscale, 2015, 7, 14385-14392.	2.8	73
131	Lower Critical Solution Temperature Phase Behavior of Linear Polymers in Imidazolium-Based Ionic Liquids: Effects of Structural Modifications. Langmuir, 2009, 25, 3820-3824.	1.6	72
132	Light-Controlled Reversible Micellization of a Diblock Copolymer in an Ionic Liquid. Macromolecules, 2012, 45, 7566-7573.	2.2	71
133	Li+ Ion Transport in Polymer Electrolytes Based on a Glyme-Li Salt Solvate Ionic Liquid. Electrochimica Acta, 2015, 175, 5-12.	2.6	70
134	Oxygen Reduction Reaction in Highly Concentrated Electrolyte Solutions of Lithium Bis(trifluoromethanesulfonyl)amide/Dimethyl Sulfoxide. Journal of Physical Chemistry C, 2017, 121, 9162-9172.	1.5	70
135	Structure-conductivity relationsihp in polymer electrolytes formed by network polymers from poly[dimethylsiloxane-g- poly(ethylene oxide)] and litegum perchlorate. Journal of Power Sources, 1987, 20, 327-332.	4.0	69
136	Preparations and Optical Properties of Ordered Arrays of Submicron Gel Particles:Â Interconnected State and Trapped State. Langmuir, 2006, 22, 4403-4407.	1.6	69
137	Difference in Lower Critical Solution Temperature Behavior between Random Copolymers and a Homopolymer Having Solvatophilic and Solvatophobic Structures in an Ionic Liquidâ€. Journal of Physical Chemistry B, 2007, 111, 4750-4754.	1.2	69
138	Acceleration of Redox Diffusion and Charge-Transfer Rates in an Ionic Liquid with Nanoparticle Addition. Electrochemical and Solid-State Letters, 2007, 10, F23.	2.2	69
139	Photoreversible Gelation of a Triblock Copolymer in an Ionic Liquid. Angewandte Chemie - International Edition, 2015, 54, 3018-3022.	7.2	68
140	Effect of Molecular Weight of Polymeric Solvent on Ion Conductive Behavior in Poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.3	67
141	The Electrochemistry Group Medal Lecture. Electron self-exchange dynamics between redox sites in polymers. Faraday Discussions of the Chemical Society, 1989, 88, 1.	2.2	67
142	Soft Glassy Colloidal Arrays in an Ionic Liquid: Colloidal Glass Transition, Ionic Transport, and Structural Color in Relation to Microstructure. Journal of Physical Chemistry B, 2010, 114, 13095-13103.	1.2	67
143	Promising Cell Configuration for Next-Generation Energy Storage: Li₂S/Graphite Battery Enabled by a Solvate Ionic Liquid Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 16053-16062.	4.0	67
144	Amperometric Biosensor for Polyphenol Based on Horseradish Peroxidase Immobilized on Gold Electrodes. Electroanalysis, 2001, 13, 408-412.	1.5	65

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145	Thermally Reversible Ion Gels with Photohealing Properties Based on Triblock Copolymer Self-Assembly. Macromolecules, 2015, 48, 5928-5933.	2.2	65
146	Hydrogen-bonding supramolecular protic salt as an â€œall-in-oneâ€•precursor for nitrogen-doped mesoporous carbons for CO2 adsorption. Nano Energy, 2015, 13, 376-386.	8.2	64
147	Solid-state dye-sensitized solar cells using polymerized ionic liquid electrolyte with platinum-free counter electrode. Physical Chemistry Chemical Physics, 2010, 12, 1916.	1.3	63
148	Phase Diagrams and Solvate Structures of Binary Mixtures of Glymes and Na Salts. Journal of Physical Chemistry B, 2013, 117, 15072-15085.	1.2	63
149	Interactions in ion pairs of protic ionic liquids: Comparison with aprotic ionic liquids. Journal of Chemical Physics, 2013, 139, 174504.	1.2	63
150	Printable Polymer Actuators from Ionic Liquid, Soluble Polyimide, and Ubiquitous Carbon Materials. ACS Applied Materials & Interfaces, 2013, 5, 6307-6315.	4.0	63
151	Physicochemical and Electrochemical Properties of Glyme-LiN(SO2F)2 Complex for Safe Lithium-ion Secondary Battery Electrolyte. Journal of the Electrochemical Society, 2011, 158, A769.	1.3	61
152	Nanostructure of [Li(G4)] TFSI and [Li(G4)] NO₃solvate ionic liquids at HOPG and Au(111) electrode interfaces as a function of potential. Physical Chemistry Chemical Physics, 2015, 17, 325-333.	1.3	61
153	Physicochemical properties of pentaglymeâ€“sodium bis(trifluoromethanesulfonyl)amide solvate ionic liquid. Physical Chemistry Chemical Physics, 2014, 16, 11737-11746.	1.3	60
154	Three-Dimensionally Hierarchical Ni/Ni₃S₂/S Cathode for Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2017, 9, 38477-38485.	4.0	60
155	Polymer Electrolytes Containing Solvate Ionic Liquids: A New Approach To Achieve High Ionic Conductivity, Thermal Stability, and a Wide Potential Window. Chemistry of Materials, 2018, 30, 252-261.	3.2	60
156	Controlled Solâ€“Gel Transitions of a Thermoresponsive Polymer in a Photoswitchable Azobenzene Ionic Liquid as a Molecular Trigger. Angewandte Chemie - International Edition, 2018, 57, 227-230.	7.2	60
157	Characterization of poly(vinylferrocene-co-2-hydroxyethyl methacrylate) for use as electron mediator in enzymatic glucose sensor. Reactive and Functional Polymers, 1998, 37, 263-269.	2.0	58
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