

Kazuhiko Matsumoto

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#	Paper	IF	Citations
183	Physicochemical Properties of 1,3-Dialkylimidazolium Fluorohydrogenate Room-Temperature Molten Salts. <i>Journal of the Electrochemical Society</i> , 2003 , 150, D195	3.9	129
182	Syntheses, structures and properties of 1-ethyl-3-methylimidazolium salts of fluorocomplex anions. <i>Dalton Transactions</i> , 2004 , 144-9	4.3	102
181	Thermal and Transport Properties of Na[N(SO ₂ F) ₂][N-Methyl-N-propylpyrrolidinium][N(SO ₂ F) ₂] Ionic Liquids for Na Secondary Batteries. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7648-7655	3.8	93
180	A Fluorohydrogenate Ionic Liquid Fuel Cell Operating Without Humidification. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A231		93
179	Na[FSA]-[C3C1pyrr][FSA] ionic liquids as electrolytes for sodium secondary batteries: Effects of Na ion concentration and operation temperature. <i>Journal of Power Sources</i> , 2014 , 269, 124-128	8.9	92
178	Advances in sodium secondary batteries utilizing ionic liquid electrolytes. <i>Energy and Environmental Science</i> , 2019 , 12, 3247-3287	35.4	88
177	Electrochemical and structural investigation of NaCrO ₂ as a positive electrode for sodium secondary battery using inorganic ionic liquid NaFSA/FSA. <i>Journal of Power Sources</i> , 2013 , 237, 52-57	8.9	84
176	Air-stable n-type carbon nanotube field-effect transistors with Si ₃ N ₄ passivation films fabricated by catalytic chemical vapor deposition. <i>Applied Physics Letters</i> , 2005 , 86, 113115	3.4	80
175	A Room-Temperature Molten Hydrate Electrolyte for Rechargeable Zinc/Air Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900196	21.8	78
174	Structural characteristics of alkylimidazolium-based salts containing fluoroanions. <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 317-331	2.1	70
173	The Na[FSA][C2C1im][FSA] (C2C1im+:1-ethyl-3-methylimidazolium and FSA ⁻ bis(fluorosulfonyl)amide) ionic liquid electrolytes for sodium secondary batteries. <i>Journal of Power Sources</i> , 2014 , 265, 36-39	8.9	66
172	Pyrophosphate Na ₂ FeP ₂ O ₇ as a low-cost and high-performance positive electrode material for sodium secondary batteries utilizing an inorganic ionic liquid. <i>Journal of Power Sources</i> , 2014 , 246, 783-787	8.9	66
171	Room-Temperature Ionic Liquids with High Conductivities and Wide Electrochemical Windows. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, E41		65
170	Crystal structures of frozen room temperature ionic liquids, 1-ethyl-3-methylimidazolium tetrafluoroborate (EMImBF ₄), hexafluoronioate (EMImNbF ₆) and hexafluorotantalate (EMImTaF ₆), determined by low-temperature X-ray diffraction. <i>Solid State Sciences</i> , 2006 , 8, 1250-1257	3.4	64
169	Na ₂ MnSiO ₄ as a positive electrode material for sodium secondary batteries using an ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2014 , 45, 63-66	5.1	63
168	Room temperature molten fluorometallates: 1-ethyl-3-methylimidazolium hexafluoronioate(V) and hexafluorotantalate(V). <i>Journal of Fluorine Chemistry</i> , 2002 , 115, 133-135	2.1	59
167	Ionic liquid electrolytes with high sodium ion fraction for high-rate and long-life sodium secondary batteries. <i>Journal of Power Sources</i> , 2016 , 332, 51-59	8.9	58

166	Structural characteristics of 1-ethyl-3-methylimidazolium bifluoride: HF-deficient form of a highly conductive room temperature molten salt. <i>Solid State Sciences</i> , 2002 , 4, 23-26	3.4	55
165	Effects of alkyl chain length on properties of 1-alkyl-3-methylimidazolium fluorohydrogenate ionic liquid crystals. <i>Chemistry - A European Journal</i> , 2010 , 16, 12970-6	4.8	53
164	Charge/discharge behavior of a Na ₂ FeP ₂ O ₇ positive electrode in an ionic liquid electrolyte between 253 and 363 K. <i>Electrochimica Acta</i> , 2014 , 133, 583-588	6.7	52
163	Coordination environment around the lithium cation in solid Li ₂ (EMIm)(N(SO ₂ CF ₃) ₂) ₃ (EMIm = 1-ethyl-3-methylimidazolium): Structural clue of ionic liquid electrolytes for lithium batteries. <i>Solid State Sciences</i> , 2006 , 8, 1103-1107	3.4	52
162	The effect of the anion fraction on the physicochemical properties of EMIm(HF) _n F (n = 1.0-2.6). <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5445-9	3.4	51
161	Physicochemical and Electrochemical Properties of K[N(SO ₂ F) ₂][N-Methyl-N-propylpyrrolidinium][N(SO ₂ F) ₂] Ionic Liquids for Potassium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18450-18458	3.8	45
160	Quantitative Detection of Protein Using a Top-gate Carbon Nanotube Field Effect Transistor. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8667-8670	3.8	44
159	Ionization state and ion migration mechanism of room temperature molten dialkylimidazolium fluorohydrogenates. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2942-8	3.4	44
158	Stability of Ionic Liquids against Sodium Metal: A Comparative Study of 1-Ethyl-3-methylimidazolium Ionic Liquids with Bis(fluorosulfonyl)amide and Bis(trifluoromethylsulfonyl)amide. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9628-9636	3.8	38
157	Protein Sensor Using Carbon Nanotube Field Effect Transistor. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1596-1598	1.4	37
156	Effects of the cationic structures of fluorohydrogenate ionic liquid electrolytes on the electric double layer capacitance. <i>Journal of Power Sources</i> , 2010 , 195, 4414-4417	8.9	35
155	Halofluorination of alkenes with ionic liquid EMIMF(HF) ₂ .3. <i>Journal of Fluorine Chemistry</i> , 2004 , 125, 455-458	3.5	35
154	A highly conductive composite electrolyte consisting of polymer and room temperature molten fluorohydrogenates. <i>Solid State Ionics</i> , 2002 , 149, 295-298	3.3	35
153	Physicochemical properties and plastic crystal structures of phosphonium fluorohydrogenate salts. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12536-44	3.6	34
152	Electrochemically stable fluorohydrogenate ionic liquids based on quaternary phosphonium cations. <i>Electrochemistry Communications</i> , 2009 , 11, 1312-1315	5.1	34
151	Full Utilization of Superior Charge-Discharge Characteristics of Na _{1.56} Fe _{1.22} P ₂ O ₇ Positive Electrode by Using Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A176-A180	3.9	33
150	Room Temperature Magnesium Electrodeposition from Glyme-Coordinated Ammonium Amide Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D389-D396	3.9	32
149	Thermal Properties of Ionic Liquid + Water Binary Systems Applied to Heat Pipes. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1840-1846	2.8	31

- 148 Fluorination with ionic liquid EMIMF(HF)_{2.3} as mild HF source. *Journal of Fluorine Chemistry*, **2006**, 127, 29-35 2.1 31
- 147 The structures of alkylimidazolium fluorohydrogenate molten salts studied by high-energy X-ray diffraction. *Journal of Non-Crystalline Solids*, **2002**, 312-314, 414-418 3.9 31
- 146 A mild ring opening fluorination of epoxide with ionic liquid 1-ethyl-3-methylimidazolium oligo hydrogenfluoride (EMIMF(HF)_{2.3}). *Journal of Fluorine Chemistry*, **2004**, 125, 1127-1129 2.1 30
- 145 Na₃V₂(PO₄)₃/C Positive Electrodes with High Energy and Power Densities for Sodium Secondary Batteries with Ionic Liquid Electrolytes That Operate across Wide Temperature Ranges. *Advanced Sustainable Systems*, **2018**, 2, 1700171 5.9 29
- 144 A new series of ionic liquids based on the difluorophosphate anion. *Inorganic Chemistry*, **2009**, 48, 7350-85.1 29
- 143 Calibration method for a carbon nanotube field-effect transistor biosensor. *Nanotechnology*, **2008**, 19, 045505 3.4 29
- 142 Structural analysis of 1-ethyl-3-methylimidazolium bifluoride melt. *Nuclear Instruments & Methods in Physics Research B*, **2003**, 199, 29-33 1.2 29
- 141 Na₃V₂(PO₄)₃@Carbon Nanofibers: High Mass Loading Electrode Approaching Practical Sodium Secondary Batteries Utilizing Ionic Liquid Electrolytes. *ACS Applied Energy Materials*, **2019**, 2, 2818-2827 6.1 28
- 140 Crystalline maricite NaFePO₄ as a positive electrode material for sodium secondary batteries operating at intermediate temperature. *Journal of Power Sources*, **2018**, 377, 80-86 8.9 28
- 139 The structural classification of the highly disordered crystal phases of [Nn][BF₄], [Nn][PF₆], [Pn][BF₄], and [Pn][PF₆] salts (Nn(+) = tetraalkylammonium and Pn(+) = tetraalkylphosphonium). *Physical Chemistry Chemical Physics*, **2014**, 16, 23616-26 3.6 27
- 138 Phase behavior of 1-dodecyl-3-methylimidazolium fluorohydrogenate salts (C₁₂MIm(FH)_(n)F, n = 1.0-2.3) and their anisotropic ionic conductivity as ionic liquid crystal electrolytes. *Journal of Physical Chemistry B*, **2012**, 116, 10106-12 3.4 27
- 137 Surface structure and electrochemical characteristics of natural graphite fluorinated by ClF₃. *Journal of Fluorine Chemistry*, **2006**, 127, 1383-1389 2.1 26
- 136 Improved Electrochemical Performance of NaVOPO₄ Positive Electrodes at Elevated Temperature in an Ionic Liquid Electrolyte. *Journal of the Electrochemical Society*, **2015**, 162, A2093-A2098 3.9 24
- 135 Polymorphism of alkali bis(fluorosulfonyl)amides (M[N(SO₂F)₂], M = Na, K, and Cs). *Inorganic Chemistry*, **2013**, 52, 568-76 5.1 24
- 134 Anomalously large formula unit volume and its effect on the thermal behavior of LiBF₄. *Journal of Physical Chemistry B*, **2006**, 110, 2138-41 3.4 24
- 133 Inorganic/Organic Hybrid Ionic Liquid Electrolytes for Na Secondary Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A1409-A1414 3.9 23
- 132 Ion/Ion Interactions and Conduction Mechanism of Highly Conductive Fluorohydrogenate Ionic Liquids. *Journal of Physical Chemistry C*, **2011**, 115, 4324-4332 3.8 23
- 131 Electrochemical Properties of the Ionic Liquid 1-Ethyl-3-methylimidazolium Difluorophosphate as an Electrolyte for Electric Double-Layer Capacitors. *Journal of the Electrochemical Society*, **2010**, 157, A578 3.9 23

130	Thermal, Physical, and Electrochemical Properties of Li[N(SO ₂ F) ₂]-[1-Ethyl-3-methylimidazolium][N(SO ₂ F) ₂] Ionic Liquid Electrolytes for Li Secondary Batteries Operated at Room and Intermediate Temperatures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9209-9219	3.8	22
129	Vanadium phosphide-phosphorus composite as a high-capacity negative electrode for sodium secondary batteries using an ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2019 , 102, 46-51	5.1	22
128	Effects of alkyl chain length and anion size on thermal and structural properties for 1-alkyl-3-methylimidazolium hexafluoro-complex salts (C(x)MImAF ₆ , x = 14, 16 and 18; A = P, As, Sb, Nb and Ta). <i>Dalton Transactions</i> , 2012 , 41, 3494-502	4.3	22
127	Application of Ionic Liquid as K-Ion Electrolyte of Graphite//K ₂ Mn[Fe(CN) ₆] Cell. <i>ACS Energy Letters</i> , 2020 , 5, 2849-2857	20.1	22
126	Room-Temperature Fluoride Shuttle Batteries Based on a Fluorohydrogenate Ionic Liquid Electrolyte. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6153-6157	6.1	21
125	Ionic liquid electrolyte for room to intermediate temperature operating Li metal batteries: Dendrite suppression and improved performance. <i>Journal of Power Sources</i> , 2020 , 453, 227911	8.9	21
124	Effects of alkyl chain length on properties of N-alkyl-N-methylpyrrolidinium fluorohydrogenate ionic liquid crystals. <i>Journal of Fluorine Chemistry</i> , 2012 , 135, 344-349	2.1	21
123	All solid-state electrochemical capacitors using N,N-dimethylpyrrolidinium fluorohydrogenate as ionic-plastic-crystal electrolyte. <i>Journal of Power Sources</i> , 2014 , 245, 758-763	8.9	21
122	Syntheses and Physicochemical Properties of Low-Melting Salts Based on VOF ₄ and MoOF ₅ and the Molecular Geometries of the Dimeric (VOF ₄) ₂ and Mo ₂ O ₄ F ₆ Anions. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1049-1055	2.3	21
121	A new room temperature ionic liquid of oxyfluorometallate anion: 1-Ethyl-3-methylimidazolium oxypentafluorotungstate (EMImWOF ₅). <i>Journal of Fluorine Chemistry</i> , 2005 , 126, 1095-1100	2.1	21
120	Symmetric Cell Electrochemical Impedance Spectroscopy of Na ₂ FeP ₂ O ₇ Positive Electrode Material in Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26857-26864	3.8	21
119	Highly conductive plastic crystals based on fluorohydrogenate anions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 955-60	3.4	20
118	Nonvolatile RTIL-based artificial muscle: actuation mechanism identified by in situ EDX analysis. <i>Chemistry - A European Journal</i> , 2011 , 17, 11122-6	4.8	20
117	Room-Temperature Fluorohydrogenate Ionic Liquids of Alkylpyridinium Cations and Allylated Quarternary Cyclic Ammonium Cations. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, F9		20
116	Crystal structures of AgAF ₆ (A = P, As, Sb, Nb, Ta) at ambient temperatures. <i>Journal of Fluorine Chemistry</i> , 2001 , 110, 117-122	2.1	20
115	Tris(1-ethyl-3-methylimidazolium) hexachlorolanthanate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002 , 58, m186-7		19
114	CuP ₂ /C Composite Negative Electrodes for Sodium Secondary Batteries Operating at Room-to-Intermediate Temperatures Utilizing Ionic Liquid Electrolyte. <i>ChemElectroChem</i> , 2018 , 5, 1340-1344	4.3	18
113	Syntheses and Structures of Xenon Trioxide Alkylnitrile Adducts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13780-13783	16.4	18

112	Electrolytes toward High-Voltage Na ₃ V ₂ (PO ₄) ₂ F ₃ Positive Electrode Durable against Temperature Variation. <i>Advanced Energy Materials</i> , 2020 , 10, 2001880	21.8	18
111	Sodium Ion Batteries using Ionic Liquids as Electrolytes. <i>Chemical Record</i> , 2018 , 19, 758	6.6	18
110	Syntheses and Structures of F ₆ XeNCCH ₃ and F ₆ Xe(NCCH ₃) ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14169-73	16.4	17
109	A mild method for halofluorination of alkenes with ionic liquid EMIMF(HF) _{2.3} . <i>Journal of Fluorine Chemistry</i> , 2005 , 126, 121-123	2.1	17
108	¹³ C/ ¹⁹ F high-resolution solid-state NMR studies on layered carbon-fluorine compounds. <i>Carbon</i> , 2018 , 138, 179-187	10.4	16
107	Influence of cationic structures on oxygen reduction reaction at Pt electrode in fluorohydrogenate ionic liquids. <i>Journal of Power Sources</i> , 2014 , 266, 193-197	8.9	16
106	NASICON vs. Na metal: a new counter electrode to evaluate electrodes for Na secondary batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27057-27065	13	16
105	Evaluation of Double-Layer and Redox Capacitances of Activated Carbon Electrodes in N-Ethyl-N-methylpyrrolidinium Fluorohydrogenate Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A734-A738	3.9	15
104	Synthetic, structural and thermal studies of Ag(I)XeF ₂ complex salts. <i>Solid State Sciences</i> , 2002 , 4, 1465-1469	3.4	15
103	Electrochemical Sodiation-desodiation of Maricite NaFePO ₄ in Ionic Liquid Electrolyte. <i>Electrochemistry</i> , 2017 , 85, 675-679	1.2	14
102	Preparation of gold nanoparticles using reactive species produced in room-temperature ionic liquids by accelerated electron beam irradiation. <i>RSC Advances</i> , 2012 , 2, 11801	3.7	14
101	An Energy-Dense Solvent-Free Dual-Ion Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 2003557	15.6	14
100	Trialkylsulfonium Fluorohydrogenate Giving the Highest Conductivity in Room Temperature Ionic Liquids. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, F13		13
99	Cesium fluorohydrogenate, Cs(FH) _{2.3} F. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1339-1343	2.1	13
98	Preparation of Superconducting (TMTSF) ₂ NbF ₆ by Electrooxidation of TMTSF Using Ionic Liquid as Electrolyte. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 452, 103-112	0.5	13
97	Nature of the Xe(VI)-N Bonds in F ₆ XeNCCH ₃ and F ₆ Xe(NCCH ₃) ₂ and the Stereochemical Activity of Their Xenon Valence Electron Lone Pairs. <i>Chemistry - A European Journal</i> , 2016 , 22, 4833-42	4.8	13
96	Lithium fluoride/iron difluoride composite prepared by a fluorolytic sol-gel method: Its electrochemical behavior and charge-discharge mechanism as a cathode material for lithium secondary batteries. <i>Journal of Power Sources</i> , 2019 , 412, 180-188	8.9	13
95	N-Ethyl-N-propylpyrrolidinium Bis(fluorosulfonyl)amide Ionic Liquid Electrolytes for Sodium Secondary Batteries: Effects of Na Ion Concentration. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22018-22026	3.8	12

94	Syntheses and Physicochemical Properties of New Ionic Liquids Based on the Hexafluorouranate Anion. <i>Chemistry Letters</i> , 2009 , 38, 714-715	1.7	12
93	Potassium Difluorophosphate as an Electrolyte Additive for Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36168-36176	9.5	12
92	The first crystallographic example of a face-sharing fluoroaluminate anion $Al_2F_9(3-)$. <i>Dalton Transactions</i> , 2013 , 42, 1965-8	4.3	11
91	Poly(vinyl chloride) Ionic Liquid Polymer Electrolyte Based on Bis(fluorosulfonyl)Amide for Sodium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5031-H5035	3.9	11
90	Air Stable n-type Top Gate Carbon Nanotube Filed Effect Transistors with Silicon Nitride Insulator Deposited by Thermal Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L328-L330	1.4	11
89	Crystal structure of $Na[N(SO_2CF_3)_2]$ and coordination environment of alkali metal cation in the $M[N(SO_2CF_3)_2]$ ($M = Li^+, Na^+, K^+, \text{ and } Cs^+$) structures. <i>Journal of Fluorine Chemistry</i> , 2015 , 174, 42-48	2.1	10
88	Properties of fluorosulfate-based ionic liquids and geometries of $(FO_2SOH)OSO_2F^-$ and $(FO_2SOH)_2O_2SOF^-$. <i>Dalton Transactions</i> , 2011 , 40, 12491-9	4.3	10
87	Thermal properties of N-alkyl-N-methylpyrrolidinium and N-butylpyridinium fluorometallates and physicochemical properties of their melts. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 979-984	2.1	10
86	Solubility and diffusion coefficient of oxygen in 1-ethyl-1-methylpyrrolidinium fluorohydrogenate room temperature ionic liquid at 298B73 K. <i>Electrochimica Acta</i> , 2011 , 56, 3852-3856	6.7	10
85	Physical and Electrochemical Properties of 1-ethyl-3-methylimidazolium Ionic Liquids of Mixed Anions, $(FH)nF^-$, BF_4^- , and $N(SO_2CF_3)_2^-$. <i>Electrochemistry</i> , 2009 , 77, 624-626	1.2	10
84	Elimination of AsF_3 from anhydrous HF using $AgFAsF_6$ as a mediator. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 805-808	2.1	10
83	Physical and Electrochemical Properties of a Room Temperature Molten Salt: 1-ethyl-2,3-dimethylimidazolium Fluorohydrogenate. <i>Electrochemistry</i> , 2005 , 73, 730-732	1.2	10
82	Microscopic characterization of the CF bonds in fluorine-graphite intercalation compounds. <i>Journal of Power Sources</i> , 2020 , 445, 227320	8.9	10
81	Stabilization of SF with Glyme-Coordinated Alkali Metal Cations. <i>Inorganic Chemistry</i> , 2018 , 57, 14882-14889	3.89	10
80	Formation of a solid solution between $[N(CH)]_2[BF_4]$ and $[N(CH)]_2[PF_6]$ in crystal and plastic crystal phases. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2053-2059	3.6	9
79	Homoleptic octahedral coordination of CH_3CN to $Mg(2+)$ in the $Mg[N(SO_2CF_3)_2]_2-CH_3CN$ system. <i>Dalton Transactions</i> , 2016 , 45, 2810-3	4.3	9
78	Room-Temperature Ionic Liquids with High Conductivities and Wide Electrochemical Windows. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, L3		9
77	Charge-discharge behavior of fluorine-intercalated graphite for the positive electrode of fluoride ion shuttle battery. <i>Electrochemistry Communications</i> , 2020 , 110, 106626	5.1	9

76	Iron(III) fluoride synthesized by a fluorolysis method and its electrochemical properties as a positive electrode material for lithium secondary batteries. <i>Journal of Fluorine Chemistry</i> , 2016 , 184, 75-81	2.1	9
75	Partially Naked Fluoride in Solvate Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6662-6667	6.4	9
74	Pseudo-solid-state electrolytes utilizing the ionic liquid family for rechargeable batteries. <i>Energy and Environmental Science</i> ,	35.4	9
73	High-voltage honeycomb layered oxide positive electrodes for rechargeable sodium batteries. <i>Chemical Communications</i> , 2020 , 56, 9272-9275	5.8	8
72	Reaction Pathways of Iron Trifluoride Investigated by Operation at 363K Using an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2105-A2110	3.9	8
71	Syntheses and Structures of F6XeNCCH3 and F6Xe(NCCH3)2. <i>Angewandte Chemie</i> , 2015 , 127, 14375-14379	3.0	8
70	Silicon Nitride-Passivated Bottom-Up Single-Electron Transistors. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 110101	1.4	8
69	Comparison of sensitivities of carbon nanotube field-effect transistor biosensors with and without top metal gate. <i>Journal of Applied Physics</i> , 2008 , 104, 104304	2.5	8
68	Physicochemical and electrochemical properties of the (fluorosulfonyl)(trifluoromethylsulfonyl)amide ionic liquid for Na secondary batteries. <i>Journal of Power Sources</i> , 2020 , 470, 228406	8.9	7
67	Potassium Single Cation Ionic Liquid Electrolyte for Potassium-Ion Batteries. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6341-6347	3.4	7
66	Synthesis and Characterization of Fluorohydrogenate Ionic Liquids Based on Azoniaspiro-type Cations. <i>Chemistry Letters</i> , 2013 , 42, 1469-1471	1.7	7
65	Very strong hydrogen bonds in a bent chain structure of fluorohydrogenate anions in liquid Cs(FH)2.3F. <i>Journal of Chemical Physics</i> , 2008 , 129, 014512	3.9	7
64	Transport Properties of Ionic Liquid and Sodium Salt Mixtures for Sodium-Ion Battery Electrolytes from Molecular Dynamics Simulation with a Self-Consistent Atomic Charge Determination. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7291-7305	3.4	7
63	Charge/Discharge Performance of Copper Metal Positive Electrodes in Fluorohydrogenate Ionic Liquids for Fluoride-Shuttle Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 040530	3.9	7
62	Intermediate-Temperature Operation of Sodium Secondary Batteries with High Rate Capability and Cyclability Using Ionic Liquid Electrolyte. <i>ECS Transactions</i> , 2016 , 75, 139-145	1	7
61	Phase Evolution of Trirutile Li0.5FeF3 for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 868-880	9.6	7
60	Improvement of Electrochemical Stability Using the Eutectic Composition of a Ternary Molten Salt System for Highly Concentrated Electrolytes for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2538-2546	9.5	7
59	Mixed alkali-ion transport and storage in atomic-disordered honeycomb layered NaKNiTeO. <i>Nature Communications</i> , 2021 , 12, 4660	17.4	7

58	Crystallographic Insight into the Mg ²⁺ Coordination Mode and N(SO ₂ CF ₃) ₂ Anion Conformation in Mg[N(SO ₂ CF ₃) ₂] ₂ and Its Adducts. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 1087-1099	2.3	6
57	Fluoride Ion Interactions in Alkali-Metal Fluoride-Diol Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 6631-6639	3.9	6
56	Stable Cycle Performance of a Phosphorus Negative Electrode in Lithium-Ion Batteries Derived from Ionic Liquid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10891-10901	9.5	6
55	Probing the Mechanism of Improved Performance for Sodium-ion Batteries by Utilizing Three-electrode Cells: Effects of Sodium-ion Concentration in Ionic Liquid Electrolytes. <i>Electrochemistry</i> , 2019 , 87, 175-181	1.2	5
54	Improved performance of a conducting-bridge random access memory using ionic liquids. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7215-7222	7.1	5
53	Effects of the polyfluoroalkyl side-chain on the properties of 1-methyl-3-polyfluoroalkylimidazolium fluorohydrogenate ionic liquids. <i>Journal of Fluorine Chemistry</i> , 2013 , 149, 112-118	2.1	5
52	Vanadium diphosphide as a negative electrode material for sodium secondary batteries. <i>Journal of Power Sources</i> , 2021 , 483, 229182	8.9	5
51	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. <i>EnergyChem</i> , 2022 , 1000756.9	5.6	5
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