Rika Hagiwara

List of Publications by Year
in descending order

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351 papers	11,039 citations	34016 52 h-index	51492 86 g-index
375 all docs	375 docs citations	375 times ranked	7695 citing authors

#	Article	IF	Citations
1	Room temperature ionic liquids of alkylimidazolium cations and fluoroanions. Journal of Fluorine Chemistry, 2000, 105, 221-227.	0.9	760
2	A new structure model of graphite oxide. Carbon, 1988, 26, 357-361.	5.4	401
3	Application of Low-Viscosity Ionic Liquid to the Electrolyte of Double-Layer Capacitors. Journal of the Electrochemical Society, 2003, 150, A499.	1.3	314
4	Novel aspects of graphite intercalation by fluorine and fluorides and new B/C, C/N and B/C/N materials based on the graphite network. Synthetic Metals, 1989, 34, 1-7.	2.1	215
5	On the so-called â€œsemi-ionicâ€•Câ€“F bond character in fluorineâ€“GIC. Carbon, 2004, 42, 3243-3249.	5.4	198
6	The Application of Room Temperature Molten Salt with Low Viscosity to the Electrolyte for Dye-Sensitized Solar Cell. Chemistry Letters, 2001, 30, 26-27.	0.7	182
7	Ionic Liquids for Electrochemical Devices. Electrochemistry, 2007, 75, 23-34.	0.6	162
8	Acidic 1-ethyl-3-methylimidazolium fluoride: a new room temperature ionic liquid. Journal of Fluorine Chemistry, 1999, 99, 1-3.	0.9	157
9	A Highly Conductive Room Temperature Molten Fluoride: EMIFâ‹…2.3HF. Journal of the Electrochemical Society, 2002, 149, D1.	1.3	153
10	Physicochemical Properties of 1,3-Dialkylimidazolium Fluorohydrogenate Room-Temperature Molten Salts. Journal of the Electrochemical Society, 2003, 150, D195.	1.3	137
11	NaFSAâ€“C1C3pyrFSA ionic liquids for sodium secondary battery operating overÂaÂwide temperature range. Journal of Power Sources, 2013, 238, 296-300.	4.0	131
12	Advances in sodium secondary batteries utilizing ionic liquid electrolytes. Energy and Environmental Science, 2019, 12, 3247-3287.	15.6	129
13	A Roomâ€Temperature Molten Hydrate Electrolyte for Rechargeable Zincâ€“Air Batteries. Advanced Energy Materials, 2019, 9, 1900196.	10.2	128
14	Direct electrolytic reduction of solid SiO2 in molten CaCl2 for the production of solar grade silicon. Electrochimica Acta, 2007, 53, 106-110.	2.6	117
15	Syntheses, structures and properties of 1-ethyl-3-methylimidazolium salts of fluorocomplex anions. Dalton Transactions, 2004, , 144-149.	1.6	115
16	Na[FSA]-[C3C1pyrr][FSA] ionic liquids as electrolytes for sodium secondary batteries: Effects of Na ion concentration and operation temperature. Journal of Power Sources, 2014, 269, 124-128.	4.0	111
17	Thermal and Transport Properties of Na[N(SO₂F)₂]â€“[N-Methyl-N-propylpyrrolidinium][N(SO₂F)₂] Ionic Liquids for Na Secondary Batteries. Journal of Physical Chemistry C, 2015, 119, 7648-7655.	4.5	109
18	Thermal Properties of Mixed Alkali Bis(trifluoromethylsulfonyl)amides. Journal of Chemical & Engineering Data, 2008, 53, 355-358.	1.0	107

#	Article	IF	Citations
19	Chargeâ€“Discharge Properties of a Sn₄P₃Negative Electrode in Ionic Liquid Electrolyte for Na-Ion Batteries. ACS Energy Letters, 2017, 2, 1139-1143.	8.8	101
20	Intermediate-temperature ionic liquid NaFSA-KFSA and its application to sodium secondary batteries. Journal of Power Sources, 2012, 209, 52-56.	4.0	100
21	A Fluorohydrogenate Ionic Liquid Fuel Cell Operating Without Humidification. Electrochemical and Solid-State Letters, 2005, 8, A231.	2.2	98
22	Electrochemical and structural investigation of NaCrO2 as a positive electrode for sodium secondary battery using inorganic ionic liquid NaFSAâ€“KFSA. Journal of Power Sources, 2013, 237, 52-57.	4.0	94
23	Chargeâ€“discharge behavior of tin negative electrode for a sodium secondary battery using intermediate temperature ionic liquid sodium bis(fluorosulfonyl)amideâ€“potassium bis(fluorosulfonyl)amide. Journal of Power Sources, 2012, 217, 479-484.	4.0	83
24	Novel inorganic ionic liquids possessing low melting temperatures and wide electrochemical windows: Binary mixtures of alkali bis(fluorosulfonyl)amides. Electrochemistry Communications, 2008, 10, 1886-1888.	2.3	81
25	The Na[FSA]â€“[C2C1im][FSA] (C2C1im+:1-ethyl-3-methylimidazolium and FSAâ^':bis(fluorosulfonyl)amide) ionic liquid electrolytes for sodium secondary batteries. Journal of Power Sources, 2014, 265, 36-39.	4.0	81
26	Optical properties of zinc nitride formed by molten salt electrochemical process. Thin Solid Films, 2005, 492, 88-92.	0.8	78
27	Siliconâ€“air batteries. Electrochemistry Communications, 2009, 11, 1916-1918.	2.3	78
28	Structural characteristics of alkylimidazolium-based salts containing fluoroanions. Journal of Fluorine Chemistry, 2007, 128, 317-331.	0.9	77
29	Pyrophosphate Na2FeP2O7 as a low-cost and high-performance positive electrode material for sodium secondary batteries utilizing an inorganic ionic liquid. Journal of Power Sources, 2014, 246, 783-787.	4.0	77
30	A safe and high-rate negative electrode for sodium-ion batteries: Hard carbon in NaFSA-C1C3pyrFSA ionic liquid at 363ÂK. Journal of Power Sources, 2014, 246, 387-391.	4.0	74
31	Room-Temperature Ionic Liquids with High Conductivities and Wide Electrochemical Windows. Electrochemical and Solid-State Letters, 2004, 7, E41.	2.2	73
32	Na2MnSiO4 as a positive electrode material for sodium secondary batteries using an ionic liquid electrolyte. Electrochemistry Communications, 2014, 45, 63-66.	2.3	72
33	Crystal structures of frozen room temperature ionic liquids, 1-ethyl-3-methylimidazolium tetrafluoroborate (EMImBF4), hexafluoroniobate (EMImNbF6) and hexafluorotantalate (EMImTaF6), determined by low-temperature X-ray diffraction. Solid State Sciences, 2006, 8, 1250-1257.	1.5	70
34	Ionic liquid electrolytes with high sodium ion fraction for high-rate and long-life sodium secondary batteries. Journal of Power Sources, 2016, 332, 51-59.	4.0	70
35	Physicochemical and Electrochemical Properties of K[N(SO₂F)₂]â€“[N-Methyl-N-propylpyrrolidinium][N(SO₂F)₂] Ionic Liquids for Potassium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 18450-18458.	4.0	70
36	Electrochemical properties of alkali bis(trifluoromethylsulfonyl)amides and their eutectic mixtures. Electrochimica Acta, 2010, 55, 1113-1119.	2.6	69

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37	Solvents effects on electrochemical characteristics of graphite fluorideâ€"lithium batteries. Electrochimica Acta, 1982, 27, 1615-1619.	2.6	66
38	Electrochemical performance of hard carbon negative electrodes for ionic liquid-based sodium ion batteries over a wide temperature range. Electrochimica Acta, 2015, 176, 344-349.	2.6	66
39	Room temperature molten fluorometallates: 1-ethyl-3-methylimidazolium hexafluoroniobate(V) and hexafluorotantalate(V). Journal of Fluorine Chemistry, 2002, 115, 133-135.	0.9	64
40	A rechargeable lithium metal battery operating at intermediate temperatures using molten alkali bis(trifluoromethylsulfonyl)amide mixture as an electrolyte. Journal of Power Sources, 2008, 183, 724-729.	4.0	64
41	Diagrammatic Representation of Direct Electrolytic Reduction of SiO[sub 2] in Molten CaCl[sub 2]. Journal of the Electrochemical Society, 2007, 154, E95.	1.3	62
42	Novel composite electrolyte membranes consisting of fluorohydrogenate ionic liquid and polymers for the unhumidified intermediate temperature fuel cell. Journal of Power Sources, 2007, 171, 535-539.	4.0	62
43	Properties of an intermediate temperature ionic liquid NaTFSAâ€"CsTFSA and chargeâ€"discharge properties of NaCrO2 positive electrode at 423K for a sodium secondary battery. Journal of Power Sources, 2012, 205, 506-509.	4.0	62
44	Thermal Properties of Alkali Bis(fluorosulfonyl)amides and Their Binary Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 3142-3146.	1.0	61
45	Effects of Alkyl Chain Length on Properties of 1â€Alkylâ€3â€methylimidazolium Fluorohydrogenate Ionic Liquid Crystals. Chemistry - A European Journal, 2010, 16, 12970-12976.	1.7	60
46	Electrochemical formation of Dyâ€"Ni alloys in molten NaClâ€"KClâ€"DyCl3. Electrochimica Acta, 2013, 106, 293-300.	2.6	60
47	Structural characteristics of 1-ethyl-3-methylimidazolium bifluoride: HF-deficient form of a highly conductive room temperature molten salt. Solid State Sciences, 2002, 4, 23-26.	1.5	58
48	Chargeâ€"discharge behavior of a Na2FeP2O7 positive electrode in an ionic liquid electrolyte between 253 and 363 K. Electrochimica Acta, 2014, 133, 583-588.	2.6	57
49	The Effect of the Anion Fraction on the Physicochemical Properties of EMIm(HF)nF (n= 1.0â^2.6). Journal of Physical Chemistry B, 2005, 109, 5445-5449.	1.2	56
50	Silicon Electrodeposition in Water-Soluble KFâ€"KCl Molten Salt: Investigations on the Reduction of Si(IV) Ions. Journal of the Electrochemical Society, 2015, 162, D444-D448.	1.3	56
51	Short-range structures of poly(dicarbon monofluoride) (C2F)n and poly(carbon monofluoride) (CF)n. Carbon, 2004, 42, 2897-2903.	5.4	55
52	Coordination environment around the lithium cation in solid Li2(EMIm)(N(SO2CF3)2)3 (EMIm=1-ethyl-3-methylimidazolium): Structural clue of ionic liquid electrolytes for lithium batteries. Solid State Sciences, 2006, 8, 1103-1107.	1.5	53
53	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. Journal of Physical Chemistry C, 2016, 120, 9628-9636.	1.5	52
54	Application of Ionic Liquid as K-Ion Electrolyte of Graphite//K₂Mn[Fe(CN)₆] Cell. ACS Energy Letters, 2020, 5, 2849-2857.	8.8	51

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55	Electrochemical Formation of Nd-Ni Alloys in Molten LiF-CaF2-NdF3. Journal of the Electrochemical Society, 2011, 158, E142.	1.3	50
56	Discharge reaction and overpotential of the graphite fluoride cathode in a nonaqueous lithium cell. Journal of Power Sources, 1987, 20, 87-92.	4.0	49
57	The preparation of planar-sheet graphite fluorides C x F with x < 2. Journal of the Chemical Society Chemical Communications, 1989, , 573.	2.0	49
58	Electrochemical formation of Ndâ€“Ni alloys in molten NaClâ€“KClâ€“NdCl3. Electrochimica Acta, 2013, 92, 349-355.	2.6	48
59	Discharge Characteristics of Poly(Carbon Monofluoride) Prepared from the Residual Carbon Obtained by Thermal Decomposition of Poly(Dicarbon Monofluoride) and Graphite Oxide. Journal of the Electrochemical Society, 1986, 133, 1761-1766.	1.3	47
60	Ionization State and Ion Migration Mechanism of Room Temperature Molten Dialkylimidazolium Fluorohydrogenates. Journal of Physical Chemistry B, 2005, 109, 2942-2948.	1.2	46
61	Formation of Si Nanowires by Direct Electrolytic Reduction of Porous SiO2 Pellets in Molten CaCl2. Journal of the Electrochemical Society, 2011, 158, E55.	1.3	46
62	Precipitation of Rare Earth Compounds in LiClâ€‰â€â€‰KCl Eutectic. Journal of the Electrochemical Society, 1995, 142, 2174-2178.	1.3	45
63	Electrolytic Synthesis of Ammonia from Water and Nitrogen under Atmospheric Pressure Using a Boron-Doped Diamond Electrode as a Nonconsumable Anode. Electrochemical and Solid-State Letters, 2007, 10, E4.	2.2	45
64	A Lithiumâ€‰/â€‰â€‰Câ€‰2â€‰Fâ€‰ Primary Battery. Journal of the Electrochemical Society, 1988, 135, 2393-2394.	1.3	44
65	Spontaneous oxidation of xenon to Xe(II) by cationic Ag(II) in anhydrous hydrogen fluoride solutions. Journal of the American Chemical Society, 1990, 112, 4846-4849.	6.6	44
66	Electrolytic Reduction of a Powder-Molded SiO[sub 2] Pellet in Molten CaCl[sub 2] and Acceleration of Reduction by Si Addition to the Pellet. Journal of the Electrochemical Society, 2005, 152, D232.	1.3	44
67	ãƒ•ãƒ«ã‚ªãƒã‚¢ãƒ‹ã‚ªãƒ³ã‚’å¯¾ã‚ã«ã‚¢ãƒ«ã‚«ãƒªé‡‘å±žã‚¤ã‚ªãƒ³é›»æ± ç”¨é›»è§£æ¶². Electrochemistry, 2002, 70, 130-134.	0.8	44
68	Performance validation of sodium-ion batteries using an ionic liquid electrolyte. Journal of Applied Electrochemistry, 2016, 46, 487-496.	1.5	43
69	Electrochemical performance of Na2Ti3O7/C negative electrode in ionic liquid electrolyte for sodium secondary batteries. Journal of Power Sources, 2017, 354, 10-15.	4.0	42
70	Electrolytes toward Highâ€Voltage Na₃V₂(PO₄)₂F₃ Positive Electrode Durable against Temperature Variation. Advanced Energy Materials, 2020, 10, 2001880.	10.2	42
71	Pseudo-solid-state electrolytes utilizing the ionic liquid family for rechargeable batteries. Energy and Environmental Science, 2021, 14, 5834-5863.	15.6	42
72	Reversible intercalation of HF in fluorineâ€“GICs. Carbon, 2003, 41, 351-357.	5.4	41

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73	Thermal Properties of Ionic Liquid + Water Binary Systems Applied to Heat Pipes. Journal of Chemical & Engineering Data, 2011, 56, 1840-1846.	1.0	41
74	The structural classification of the highly disordered crystal phases of [N_n][BF₄], [N_n][PF₆], [P_n][BF₄], and [P_n][PF₆] salts (N_n⁺= tetraalkylammonium and P_n⁺=) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 687 Tc	1.3	41
75	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.	2.7	41
76	Sodium Ion Batteries using Ionic Liquids as Electrolytes. Chemical Record, 2019, 19, 758-770.	2.9	41
77	Effects of the cationic structures of fluorohydrogenate ionic liquid electrolytes on the electric double layer capacitance. Journal of Power Sources, 2010, 195, 4414-4417.	4.0	40
78	Structural and magnetic properties of some AgF+ Salts. Journal of Solid State Chemistry, 1992, 96, 84-96.	1.4	39
79	A highly conductive composite electrolyte consisting of polymer and room temperature molten fluorohydrogenates. Solid State Ionics, 2002, 149, 295-298.	1.3	39
80	Halofluorination of alkenes with ionic liquid EMIMF(HF)2.3. Journal of Fluorine Chemistry, 2004, 125, 455-458.	0.9	38
81	Fluorination with ionic liquid EMIMF(HF)2.3 as mild HF source. Journal of Fluorine Chemistry, 2006, 127, 29-35.	0.9	38
82	Electrochemical Formation of Dy-Ni Alloys in Molten LiF-CaF₂-DyF₃. Journal of the Electrochemical Society, 2012, 159, E193-E197.	1.3	38
83	On the Relation Between the Overpotentials and Structures of Graphite Fluoride Electrode in Nonaqueous Lithium Cell. Journal of the Electrochemical Society, 1984, 131, 1980-1984.	1.3	37
84	New inorganic ionic liquids possessing low melting temperatures and wide electrochemical windows: Ternary mixtures of alkali bis(fluorosulfonyl)amides. Electrochimica Acta, 2012, 66, 320-324.	2.6	37
85	Room Temperature Magnesium Electrodeposition from Glyme-Coordinated Ammonium Amide Electrolytes. Journal of the Electrochemical Society, 2015, 162, D389-D396.	1.3	37
86	A high-capacity TiO₂/C negative electrode for sodium secondary batteries with an ionic liquid electrolyte. Journal of Materials Chemistry A, 2015, 3, 20767-20771.	5.2	37
87	Physicochemical properties and plastic crystal structures of phosphonium fluorohydrogenate salts. Physical Chemistry Chemical Physics, 2011, 13, 12536.	1.3	36
88	Improved cyclability of Snâ€“Cu film electrode for sodium secondary battery using inorganic ionic liquid electrolyte. Electrochimica Acta, 2014, 135, 60-67.	2.6	36
89	Crystalline maricite NaFePO4 as a positive electrode material for sodium secondary batteries operating at intermediate temperature. Journal of Power Sources, 2018, 377, 80-86.	4.0	36
90	A mild ring opening fluorination of epoxide with ionic liquid 1-ethyl-3-methylimidazorium oligo hydrogenfluoride (EMIMF(HF)2.3). Journal of Fluorine Chemistry, 2004, 125, 1127-1129.	0.9	35

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91	Dissolution Behavior of Lithium Oxide in Molten LiClâ^'KCl Systems. Journal of Chemical & Engineering Data, 2008, 53, 2816-2819.	1.0	35
92	Electrochemically stable fluorohydrogenate ionic liquids based on quaternary phosphonium cations. Electrochemistry Communications, 2009, 11, 1312-1315.	2.3	35
93	Full Utilization of Superior Charge-Discharge Characteristics of Na_{1.56}Fe_{1.22}P₂O₇Positive Electrode by Using Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2015, 162, A176-A180.	1.3	35
94	Ionic liquid electrolyte for room to intermediate temperature operating Li metal batteries: Dendrite suppression and improved performance. Journal of Power Sources, 2020, 453, 227911.	4.0	35
95	Ternary Phase Diagrams of Alkali Bis(trifluoromethylsulfonyl)amides. Journal of Chemical & Engineering Data, 2008, 53, 2144-2147.	1.0	34
96	Electrodeposition of tungsten from ZnCl2â€"NaClâ€"KClâ€"KFâ€"WO3 melt and investigation on tungsten species in the melt. Electrochimica Acta, 2010, 55, 1278-1281.	2.6	34
97	Thermal, Physical, and Electrochemical Properties of Li[N(SO₂F)₂]-[1-Ethyl-3-methylimidazolium][N(SO₂F)₂] Ionic Liquid Electrolytes for Li Secondary Batteries Operated at Room and Intermediate Temperatures. Journal of Physical Chemistry C, 2017, 121, 9209-9219.	1.5	34
98	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.	2.5	34
99	Kinetic Study of Discharge Reaction of Lithiumâ€Graphite Fluoride Cell. Journal of the Electrochemical Society, 1988, 135, 2128-2133.	1.3	33
100	Silicon Electrodeposition in Water-Soluble KFâ€"KCl Molten Salt: Optimization of Electrolysis Conditions at 923 K. Journal of the Electrochemical Society, 2016, 163, D95-D99.	1.3	33
101	Symmetric Cell Electrochemical Impedance Spectroscopy of Na₂FeP₂O₇ Positive Electrode Material in Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2018, 122, 26857-26864.	1.5	33
102	The structures of alkylimidazolium fluorohydrogenate molten salts studied by high-energy X-ray diffraction. Journal of Non-Crystalline Solids, 2002, 312-314, 414-418.	1.5	32
103	Polymorphism of Alkali Bis(fluorosulfonyl)amides (M[N(SO₂F)₂], M = Na, K,) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	32
104	Electrolytic Reduction of SiO2 Granules in Molten CaCl2. Electrochemistry, 2013, 81, 559-565.	0.6	32
105	Room-Temperature Fluoride Shuttle Batteries Based on a Fluorohydrogenate Ionic Liquid Electrolyte. ACS Applied Energy Materials, 2019, 2, 6153-6157.	2.5	32
106	Potassium Difluorophosphate as an Electrolyte Additive for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 36168-36176.	4.0	32
107	Electrochemical Formation of Prâ€"Ni Alloys in LiFâ€"CaF₂â€"PrF₃and NaClâ€"KClâ€"PrCl₃Melts. Journal of the Electrochemical Society, 2014, 161, D3097-D3104.	1.3	31
108	A New Series of Ionic Liquids Based on the Difluorophosphate Anion. Inorganic Chemistry, 2009, 48, 7350-7358.	1.9	30

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109	Inorganicâ€“Organic Hybrid Ionic Liquid Electrolytes for Na Secondary Batteries. Journal of the Electrochemical Society, 2015, 162, A1409-A1414.	1.3	30
110	Structural analysis of 1-ethyl-3-methylimidazolium bifluoride melt. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 29-33.	0.6	29
111	Electrodeposition of Metallic Tungsten in ZnCl[sub 2]-NaCl-KCl-WCl[sub 4] Melt at 250Â°C. Electrochemical and Solid-State Letters, 2005, 8, C91.	2.2	29
112	Improved Electrochemical Performance of NaVOPO₄Positive Electrodes at Elevated Temperature in an Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2015, 162, A2093-A2098.	1.3	29
113	Anomalously Large Formula Unit Volume and Its Effect on the Thermal Behavior of LiBF4. Journal of Physical Chemistry B, 2006, 110, 2138-2141.	1.2	28
114	Hexafluoro-, heptafluoro-, and octafluoro-salts, and [MnF5n+1]â^' (n=2, 3, 4) polyfluorometallates of singly charged metal cations, Li+â€“Cs+, Cu+, Ag+, In+ and Tl+. Journal of Fluorine Chemistry, 2007, 128, 423-437.	0.9	28
115	Electrodeposition of Si Thin Film in a Hydrophobic Room-Temperature Molten Salt. Electrochemical and Solid-State Letters, 2008, 11, D75.	2.2	28
116	Thermodynamic studies on Snâ€“Na alloy in an intermediate temperature ionic liquid NaFSAâ€“KFSA at 363ÂK. Journal of Power Sources, 2013, 237, 98-103.	4.0	28
117	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.	1.3	27
118	Ionâ^'Ion Interactions and Conduction Mechanism of Highly Conductive Fluorohydrogenate Ionic Liquids. Journal of Physical Chemistry C, 2011, 115, 4324-4332.	1.5	27
119	Effects of alkyl chain length and anion size on thermal and structural properties for 1-alkyl-3-methylimidazolium hexafluorocomplex salts (CxMImAF6, x = 14, 16 and 18; A = P, As, Sb, Nb and) Tj ETQq1 1 0.784314 rgBT /O	1.1	27
120	Phase Behavior of 1-Dodecyl-3-methylimidazolium Fluorohydrogenate Salts (C₁₂MIm(FH)_nF, n = 1.0â€“2.3) and Their Anisotropic Ionic Conductivity as Ionic Liquid Crystal Electrolytes. Journal of Physical Chemistry B, 2012, 116, 10106-10112.	1.2	27
121	13C/19F high-resolution solid-state NMR studies on layered carbon-fluorine compounds. Carbon, 2018, 138, 179-187.	5.4	27
122	Microscopic characterization of the Câ€“F bonds in fluorineâ€“graphite intercalation compounds. Journal of Power Sources, 2020, 445, 227320.	4.0	27
123	Physicochemical properties of ZnCl2â€“NaClâ€“KCl eutectic melt. Electrochimica Acta, 2009, 54, 4898-4902.	2.6	26
124	Improving Purity and Process Volume During Direct Electrolytic Reduction of Solid SiO₂ in Molten CaCl₂ for the Production of Solarâ€Grade Silicon. Energy Technology, 2013, 1, 245-252.	1.8	26
125	Editors' Choiceâ€”Silicon Electrodeposition in a Water-Soluble KFâ€“KCl Molten Salt: Utilization of SiCl₄as Si Source. Journal of the Electrochemical Society, 2017, 164, D67-D71.	1.3	26
126	Graphite intercalation compounds of lanthanide metals prepared in molten chlorides. Carbon, 1996, 34, 1591-1593.	5.4	25

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127	Electric Double Layer Capacitance of Activated Carbon Fibers in Ionic Liquid : EMImBF₄. Electrochemistry, 2005, 73, 593-596.	0.6	25
128	All solid-state electrochemical capacitors using N,N-dimethylpyrrolidinium fluorohydrogenate asÂionicÂplasticÂcrystalÂelectrolyte. Journal of Power Sources, 2014, 245, 758-763.	4.0	25
129	Vanadium phosphideâ€“phosphorus composite as a high-capacity negative electrode for sodium secondary batteries using an ionic liquid electrolyte. Electrochemistry Communications, 2019, 102, 46-51.	2.3	25
130	NASICON vs. Na metal: a new counter electrode to evaluate electrodes for Na secondary batteries. Journal of Materials Chemistry A, 2019, 7, 27057-27065.	5.2	25
131	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. EnergyChem, 2022, 4, 100075.	10.1	25
132	A new room temperature ionic liquid of oxyfluorometallate anion: 1-Ethyl-3-methylimidazolium oxypentafluorotungstate (EMImWOF5). Journal of Fluorine Chemistry, 2005, 126, 1095-1100.	0.9	24
133	Syntheses and Physicochemical Properties of Lowâ€Melting Salts Based on VOF₄^{â€“} and MoOF₅^{â€“}, and the Molecular Geometries of the Dimeric (VOF₄^{â€“})₂ and Mo₂O₄F₆^{2â€“} Anions. European Journal of Inorganic Chemistry, 2010, 2010, 1049-1055.	1.0	24
134	Effects of alkyl chain length on properties of N-alkyl-N-methylpyrrolidinium fluorohydrogenate ionic liquid crystals. Journal of Fluorine Chemistry, 2012, 135, 344-349.	0.9	24
135	Highly Conductive Plastic Crystals Based on Fluorohydrogenate Anions. Journal of Physical Chemistry B, 2013, 117, 955-960.	1.2	24
136	Charge-discharge Performance of an Ionic Liquid-based Sodium Secondary Battery in a Wide Temperature Range. Electrochemistry, 2015, 83, 91-94.	0.6	24
137	Electrochemical behavior of Snâ€“Fe alloy film negative electrodes for a sodium secondary battery using inorganic ionic liquid Na[FSA]â€“K[FSA]. Electrochimica Acta, 2016, 211, 234-244.	2.6	24
138	CuP₂/C Composite Negative Electrodes for Sodium Secondary Batteries Operating at Roomâ€toâ€Intermediate Temperatures Utilizing Ionic Liquid Electrolyte. ChemElectroChem, 2018, 5, 1340-1344.	1.7	24
139	N-Ethyl-N-propylpyrrolidinium Bis(fluorosulfonyl)amide Ionic Liquid Electrolytes for Sodium Secondary Batteries: Effects of Na Ion Concentration. Journal of Physical Chemistry C, 2019, 123, 22018-22026.	1.5	24
140	Electric Double Layer Capacitance of Activated Carbon Nanofibers in Ionic Liquid: EMImBF4. Electrochemistry, 2007, 75, 619-621.	0.6	23
141	Analysis of tungsten film electrodeposited from a ZnCl2â€“NaClâ€“KCl melt. Electrochimica Acta, 2007, 53, 20-23.	2.6	23
142	Electrodeposition of metallic tungsten films in ZnCl2â€“NaClâ€“KClâ€“KFâ€“WO3 melt at 250â€‰C. Electrochimica Acta, 2007, 53, 24-27.	2.6	23
143	Electrodeposition of Tungsten from Li2WO4-Na2WO4-K2WO4 Based Melts. Electrochemistry, 2009, 77, 621-623.	0.6	23
144	Lithium fluoride/iron difluoride composite prepared by a fluorolytic solâ€“gel method: Its electrochemical behavior and chargeâ€“discharge mechanism as a cathode material for lithium secondary batteries. Journal of Power Sources, 2019, 412, 180-188.	4.0	23

#	Article	IF	Citations
145	Mixed alkali-ion transport and storage in atomic-disordered honeycomb layered NaKNi2TeO6. Nature Communications, 2021, 12, 4660.	5.8	23
146	Discharge Characteristics of Graphite Fluoride Prepared via Graphite Oxide. Journal of the Electrochemical Society, 1988, 135, 273-277.	1.3	22
147	Direct conversion mechanism of fluorineâ€“GIC into poly(carbon monofluoride), (CF). Carbon, 2003, 41, 1971-1977.	5.4	22
148	Electrodeposition of metallic molybdenum films in ZnCl2â€“NaClâ€“KClâ€“MoCl3 systems at 250Â°C. Electrochimica Acta, 2006, 51, 3776-3780.	2.6	22
149	Oxygen Gas Evolution on Boron-Doped Diamond Electrode in Molten Chloride Systems. Electrochemical and Solid-State Letters, 2006, 9, D5-D7.	2.2	22
150	Chemistry in heterocyclic ammonium fluorohydrogenate room-temperature ionic liquid. Journal of Fluorine Chemistry, 2008, 129, 4-13.	0.9	22
151	Nonvolatile RTILâ€Based Artificial Muscle: Actuation Mechanism Identified by In Situ EDX Analysis. Chemistry - A European Journal, 2011, 17, 11122-11126.	1.7	22
152	Quantitative Elucidation of the Non-Equilibrium Phase Transition in LiFePO₄ via the Intermediate Phase. Chemistry of Materials, 2019, 31, 7160-7166.	3.2	22
153	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. Journal of Physical Chemistry B, 2020, 124, 7291-7305.	1.2	22
154	Crystal structures of AgAF6 (A = P, As, Sb, Nb, Ta) at ambient temperatures. Journal of Fluorine Chemistry, 2001, 110, 117-122.	0.9	21
155	Thermal Properties of Alkali (Fluorosulfonyl)(trifluoromethylsulfonyl)amides. Chemistry Letters, 2010, 39, 1303-1304.	0.7	21
156	Electrochemical Formation of Nd-Ni Alloys in Molten LiF-CaF₂-NdF₃. ECS Transactions, 2010, 33, 205-212.	0.3	21
157	Electrochemical Behavior of Magnesium Alloys in Alkali Metal-TFSA Ionic Liquid for Magnesium-Battery Negative Electrode. Journal of the Electrochemical Society, 2014, 161, A943-A947.	1.3	21
158	Kinetic Characteristics of Electrochemical Reduction of SiO2Granules in Molten CaCl2. Journal of the Electrochemical Society, 2014, 161, D3116-D3119.	1.3	21
159	Reaction Behavior of Stratified SiO2 Granules during Electrochemical Reduction in Molten CaCl2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1337-1344.	1.0	21
160	Crystal structures of some cubic hexafluorophosphates at ambient temperatures. Journal of Fluorine Chemistry, 2000, 101, 173-179.	0.9	20
161	Tris(1-ethyl-3-methylimidazolium) hexachlorolanthanate. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m186-m187.	0.4	20
162	Room-Temperature Fluorohydrogenate Ionic Liquids of Alkylpyridinium Cations and Allylated Quarternary Cyclic Ammonium Cations. Electrochemical and Solid-State Letters, 2009, 12, F9.	2.2	20

#	Article	IF	Citations
163	Nonhumidified fuel cell using N-ethyl-N-methylpyrrolidinium fluorohydrogenate ionic liquidâ€“polymer composite membranes. Journal of Power Sources, 2012, 220, 10-14.	4.0	20
164	Electrochemical Formation of RE-Ni (RE=Pr, Nd, Dy) Alloys in Molten Halides. ECS Transactions, 2013, 50, 473-482.	0.3	20
165	Selective Formation of Rare-Earthâ€“Nickel Alloys via Electrochemical Reactions in NaClâ€“KCl Molten Salt. Journal of the Electrochemical Society, 2016, 163, D140-D145.	1.3	20
166	The Role of Granule Size on the Kinetics of Electrochemical Reduction of SiO2 Granules in Molten CaCl2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 788-797.	1.0	20
167	Electrolytic Production of Silicon Using Liquid Zinc Alloy in Molten CaCl₂. Journal of the Electrochemical Society, 2017, 164, H5049-H5056.	1.3	19
168	High-capacity FeTiO3/C negative electrode for sodium-ion batteries with ultralong cycle life. Journal of Power Sources, 2018, 388, 19-24.	4.0	19
169	A mild method for halofluorination of alkenes with ionic liquid EMIMF(HF)2.3. Journal of Fluorine Chemistry, 2005, 126, 121-123.	0.9	18
170	Structural and Electrochemical Properties of Hard Carbon Negative Electrodes for Sodium Secondary Batteries Using the Na[FSA]–[C₃C₁pyrr][FSA] Ionic Liquid Electrolyte. Electrochemistry, 2017, 85, 391-396.	0.6	18
171	Electrochemical Sodiation-desodiation of Maricite NaFePO₄ in Ionic Liquid Electrolyte. Electrochemistry, 2017, 85, 675-679.	0.6	18
172	An Energyâ€Dense Solventâ€Free Dualâ€Ion Battery. Advanced Functional Materials, 2020, 30, 2003557.	7.8	18
173	Potassium Single Cation Ionic Liquid Electrolyte for Potassium-Ion Batteries. Journal of Physical Chemistry B, 2020, 124, 6341-6347.	1.2	18
174	High-voltage honeycomb layered oxide positive electrodes for rechargeable sodium batteries. Chemical Communications, 2020, 56, 9272-9275.	2.2	18
175	Refluorination of pyrocarbon prepared from fluorineâ€“GIC. Solid State Sciences, 2003, 5, 1285-1290.	1.5	17
176	Anodic electrode reaction of p-type silicon in 1-ethyl-3-methylimidazolium fluorohydrogenate room-temperature ionic liquid. Electrochimica Acta, 2008, 53, 3650-3655.	2.6	17
177	Influence of cationic structures on oxygen reduction reaction at Pt electrode in fluorohydrogenate ionic liquids. Journal of Power Sources, 2014, 266, 193-197.	4.0	17
178	Charge-discharge performance of Na 2/3 Fe 1/3 Mn 2/3 O 2 positive electrode in an ionic liquid electrolyte at 90 Â°C for sodium secondary batteries. Electrochimica Acta, 2017, 231, 412-416.	2.6	17
179	Poly(vinyl chloride) Ionic Liquid Polymer Electrolyte Based on Bis(fluorosulfonyl)Amide for Sodium Secondary Batteries. Journal of the Electrochemical Society, 2017, 164, H5031-H5035.	1.3	17
180	Thermal decomposition of 1st stage fluorineâ€“graphite intercalation compounds. Journal of Fluorine Chemistry, 2001, 110, 31-36.	0.9	16

#	Article	IF	Citations
181	Synthetic, structural and thermal studies of Ag(I)â€“XeF2 complex salts. Solid State Sciences, 2002, 4, 1465-1469.	1.5	16
182	Characteristics of a tungsten film electrodeposited in a KFâ€“B2O3â€“WO3 melt and preparation of Wâ€“Cuâ€“W three-layered films for heat sink application. Journal of Applied Electrochemistry, 2010, 40, 1443-1448.	1.5	16
183	Porous Silicon Formation in Fluorohydrogenate Ionic Liquids. Journal of the Electrochemical Society, 2010, 157, H281.	1.3	16
184	Evaluation of Double-Layer and Redox Capacitances of Activated Carbon Electrodes inN-Ethyl-N-methylpyrrolidinium Fluorohydrogenate Ionic Liquid. Journal of the Electrochemical Society, 2013, 160, A734-A738.	1.3	16
185	Probing the Mechanism of Improved Performance for Sodium-ion Batteries by Utilizing Three-electrode Cells: Effects of Sodium-ion Concentration in Ionic Liquid Electrolytes. Electrochemistry, 2019, 87, 175-181.	0.6	16
186	Charge-discharge behavior of fluorine-intercalated graphite for the positive electrode of fluoride ion shuttle battery. Electrochemistry Communications, 2020, 110, 106626.	2.3	16
187	Sodium difluorophosphate: facile synthesis, structure, and electrochemical behavior as an additive for sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 3637-3647.	5.2	16
188	Crystal structure of AgPF6 and AgAsF6 at ambient temperatures. Solid State Sciences, 2000, 2, 237-241.	1.5	15
189	Preparation of Superconducting (TMTSF)2NbF6 by Electrooxidation of TMTSF Using Ionic Liquid as Electrolyte. Molecular Crystals and Liquid Crystals, 2006, 452, 103-112.	0.4	15
190	Macroporous Silicon Formation on n-Si in Room-Temperature Fluorohydrogenate Ionic Liquid. Electrochemical and Solid-State Letters, 2007, 10, D25.	2.2	15
191	<i>In Situ</i> Raman Spectroscopy Studies of the Electrolyte-Substrate Interface during Electrodeposition of Silicon in a Room-Temperature Ionic Liquid. ECS Transactions, 2009, 16, 1-6.	0.3	15
192	Preparation of gold nanoparticles using reactive species produced in room-temperature ionic liquids by accelerated electron beam irradiation. RSC Advances, 2012, 2, 11801.	1.7	15
193	Partially Naked Fluoride in Solvate Ionic Liquids. Journal of Physical Chemistry Letters, 2018, 9, 6662-6667.	2.1	15
194	Phase Evolution of Trirutile Li_{0.5}FeF₃ for Lithium-Ion Batteries. Chemistry of Materials, 2021, 33, 868-880.	3.2	15
195	Discharge characteristics of graphite fluoride prepared via graphite oxide. Journal of Power Sources, 1987, 20, 93-98.	4.0	14
196	Acid-base reactions of tungsten and uranium oxide fluorides in anhydrous hydrogen fluoride. Journal of Fluorine Chemistry, 1995, 74, 89-95.	0.9	14
197	Structural and optical properties of magnesium nitride formed by a novel electrochemical process. Electrochimica Acta, 2005, 51, 56-60.	2.6	14
198	Reaction of layered carbon fluorides CxF (x=2.5â€“3.6) and hydrogen. Carbon, 2006, 44, 664-670.	5.4	14

#	Article	IF	Citations
199	Cesium fluorohydrogenate, Cs(FH)2.3F. Journal of Fluorine Chemistry, 2006, 127, 1339-1343.	0.9	14
200	Selected topics of molten fluorides in the field of nuclear engineering. Journal of Fluorine Chemistry, 2009, 130, 102-107.	0.9	14
201	Syntheses and Physicochemical Properties of New Ionic Liquids Based on the Hexafluorouranate Anion. Chemistry Letters, 2009, 38, 714-715.	0.7	14
202	Thermal Properties of Alkali Bis(pentafluoroethylsulfonyl)amides and Their Binary Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 2546-2549.	1.0	14
203	Trialkylsulfonium Fluorohydrogenate Giving the Highest Conductivity in Room Temperature Ionic Liquids. Electrochemical and Solid-State Letters, 2012, 15, F13.	2.2	14
204	A New Electrodeposition Process of Crystalline Silicon Utilizing Water-Soluble KFâ€“KCl Molten Salt. ECS Transactions, 2014, 64, 285-291.	0.3	14
205	Formation of a solid solution between [N(C₂H₅)₄][BF₄] and [N(C₂H₅)₄][PF₆] in crystal and plastic crystal phases. Physical Chemistry Chemical Physics, 2017, 19, 2053-2059.	1.3	14
206	Stabilization of SF5â€“ with Glyme-Coordinated Alkali Metal Cations. Inorganic Chemistry, 2018, 57, 14882-14889.	1.9	14
207	Vanadium diphosphide as a negative electrode material for sodium secondary batteries. Journal of Power Sources, 2021, 483, 229182.	4.0	14
208	Crystal structure of Na[N(SO 2 CF 3) 2] and coordination environment of alkali metal cation in the M[N(SO 2 CF 3) 2] (M + = Li + , Na + , K + , and Cs +) structures. Journal of Fluorine Chemistry, 2015, 174, 42-48.	0.9	13
209	Chargeâ€“discharge behavior of Snâ€“Ni alloy film electrodes in an intermediate temperature ionic liquid for the electrolyte of a sodium secondary battery. Electrochimica Acta, 2016, 193, 275-283.	2.6	13
210	Silicon Electrodeposition in a Water-Soluble KFâ€“KCl Molten Salt: Effects of Temperature and Current Density. Journal of the Electrochemical Society, 2018, 165, D825-D831.	1.3	13
211	Improvement of Electrochemical Stability Using the Eutectic Composition of a Ternary Molten Salt System for Highly Concentrated Electrolytes for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2538-2546.	4.0	13
212	In Situ Orthorhombic to Amorphous Phase Transition of Nb₂O₅ and Its Temperature Effect on Pseudocapacitive Behavior. ACS Applied Materials & Interfaces, 2022, 14, 19426-19436.	4.0	13
213	Discharge characteristics of graphite fluorides prepared via graphite intercalation compounds in nonaqueous lithium cells. Electrochimica Acta, 1985, 30, 1541-1549.	2.6	12
214	Properties of fluorosulfate-based ionic liquids and geometries of (FO2SOH)OSO2Fâ¯ and (FO2SOH)2O2SOFâ¯. Dalton Transactions, 2011, 40, 12491.	1.6	12
215	Homoleptic octahedral coordination of CH₃CN to Mg²⁺ in the Mg[N(SO₂CF₃)₂]₂â€“CH₃CN system. Dalton Transactions, 2016, 45, 2810-2813.	1.6	12
216	Mechanism of Electrolytic Reduction of SiO₂at Liquid Zn Cathode in Molten CaCl₂. Journal of the Electrochemical Society, 2019, 166, D162-D167.	1.3	12

#	Article	IF	Citations
217	Physicochemical and electrochemical properties of the (fluorosulfonyl)(trifluoromethylsulfonyl)amide ionic liquid for Na secondary batteries. Journal of Power Sources, 2020, 470, 228406.	4.0	12
218	Dual-ion chargeâ€“discharge behaviors of Naâ€“NiNc and NiNcâ€“NiNc batteries. Materials Advances, 2021, 2, 2263-2266.	2.6	12
219	Chargeâ€“Discharge Performance of Copper Metal Positive Electrodes in Fluorohydrogenate Ionic Liquids for Fluoride-Shuttle Batteries. Journal of the Electrochemical Society, 2021, 168, 040530.	1.3	12
220	A Î²â€â€Alumina/Inorganic Ionic Liquid Dual Electrolyte for Intermediateâ€Temperature Sodiumâ€“Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2105524.	7.8	12
221	Thermodynamic Aspects of the Remarkable Oxidizing Capabilities of Fluorineâ€”Lewis-Fluoroacid Mixtures. ACS Symposium Series, 1994, , 26-39.	0.5	11
222	Room-Temperature Ionic Liquids with High Conductivities and Wide Electrochemical Windows. Electrochemical and Solid-State Letters, 2004, 7, L3.	2.2	11
223	Binary and Ternary Mixtures of MFSA (M = Li, K, Cs) as New Inorganic Ionic Liquids. ECS Transactions, 2009, 16, 91-98.	0.3	11
224	Electrochemical Reduction of Silicon Tetrachloride in an Intermediate-Temperature Ionic Liquid. Electrochemistry, 2009, 77, 683-686.	0.6	11
225	The first crystallographic example of a face-sharing fluoroaluminate anion Al2F93â^'. Dalton Transactions, 2013, 42, 1965-1968.	1.6	11
226	Iron(III) fluoride synthesized by a fluorolysis method and its electrochemical properties as a positive electrode material for lithium secondary batteries. Journal of Fluorine Chemistry, 2016, 184, 75-81.	0.9	11
227	Intermediate-Temperature Operation of Sodium Secondary Batteries with High Rate Capability and Cyclability Using Ionic Liquid Electrolyte. ECS Transactions, 2016, 75, 139-145.	0.3	11
228	A new sodiationâ€“desodiation mechanism of the titania-based negative electrode for sodium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 30770-30776.	1.3	11
229	Pyrolytically prepared carbon from fluorineâ€“GIC. Carbon, 2003, 41, 1149-1156.	5.4	10
230	Synthesis and Characterization of LnF(HF)(BF4)2(Ln = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, and Dy), and Crystal Structures of LnF(HF)(BF4)2(Ln = Pr, Nd) and La(BF4)3. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 2309-2315.	0.6	10
231	Thermal properties of N-alkyl-N-methylpyrrolidinium and N-butylpyridinium fluorometallates and physicochemical properties of their melts. Journal of Fluorine Chemistry, 2009, 130, 979-984.	0.9	10
232	Physical and Electrochemical Properties of 1-ethyl-3-methylimidazolium Ionic Liquids of Mixed Anions, (FH)nF-, BF4-, and N(SO2CF3)2-. Electrochemistry, 2009, 77, 624-626.	0.6	10
233	Elimination of AsF3 from anhydrous HF using AgFAsF6 as a mediator. Journal of Fluorine Chemistry, 2010, 131, 805-808.	0.9	10
234	Solubility and diffusion coefficient of oxygen in 1-ethyl-1-methylpyrrolidinium fluorohydrogenate room temperature ionic liquid at 298â€“373K. Electrochimica Acta, 2011, 56, 3852-3856.	2.6	10

#	Article	IF	Citations
235	Nonhumidified Fuel Cells Using N-Ethyl-N-methyl-pyrrolidinium Fluorohydrogenate Ionic Liquid-poly(Vinylidene Fluoride-Hexafluoropropylene) Composite Membranes. Energies, 2015, 8, 6202-6214.	1.6	10
236	Stable Cycle Performance of a Phosphorus Negative Electrode in Lithium-Ion Batteries Derived from Ionic Liquid Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 10891-10901.	4.0	10
237	Benefits of the Mixtures of Ionic Liquid and Organic Electrolytes for Sodium-ion Batteries. Journal of the Electrochemical Society, 2021, 168, 030508.	1.3	10
238	Physical and Electrochemical Properties of a Room Temperature Molten Salt: 1-ethyl-2,3-dimethylimidazolium Fluorohydrogenate. Electrochemistry, 2005, 73, 730-732.	0.6	10
239	Electrical resistivity of fluorine-based intercalation compounds of graphite fiber in low temperature region. Carbon, 1988, 26, 213-215.	5.4	9
240	Electrochemical Behavior of Oxide Ion in a LiClâ€“NaClâ€“CaCl[sub 2] Eutectic Melt. Journal of the Electrochemical Society, 2008, 155, E85.	1.3	9
241	Preparation of Organized Ti Nanorods by Successive Electrochemical Processes in Aqueous Solution and Molten Salt. Electrochemical and Solid-State Letters, 2008, 11, C51.	2.2	9
242	Electrolytic Reduction of Solid SiO2 in Molten CaCl2 for the Production of Solar-grade Silicon. ECS Transactions, 2009, 16, 239-245.	0.3	9
243	Oxygen Electrode Reaction in a LiClâ€“KCl Eutectic Melt. Journal of the Electrochemical Society, 2009, 156, E167.	1.3	9
244	Stability of a boron-doped diamond electrode in molten chloride systems. Diamond and Related Materials, 2009, 18, 1186-1190.	1.8	9
245	Direct Electrolytic Reduction of Powdery SiO2 in Molten CaCl2 with Pellet-Type SiO2 Contacting Electrodes. ECS Transactions, 2010, 33, 239-248.	0.3	9
246	Reaction Pathways of Iron Trifluoride Investigated by Operation at 363ÂK Using an Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2019, 166, A2105-A2110.	1.3	9
247	Zincâ€Air Batteries: A Roomâ€Temperature Molten Hydrate Electrolyte for Rechargeable Zincâ€“Air Batteries (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970086.	10.2	9
248	Discharge Characteristic of Fluorinated Graphene-like Graphite as a Cathode of Lithium Primary Battery. Electrochemistry, 2020, 88, 437-440.	0.6	9
249	Optical properties of thin-film magnesium silicide prepared by electrochemical process. Electrochimica Acta, 2007, 53, 46-49.	2.6	8
250	Fluorohydrogenate Cluster Ions in the Gas Phase: Electrospray Ionization Mass Spectrometry of the [1-Ethyl-3-methylimidazolium⁺][F(HF)_{2.3}^{â€“}] Ionic Liquid. Journal of Physical Chemistry A, 2013, 117, 14191-14199.	1.1	8
251	Advantages of a Polyimide Membrane Support in Nonhumidified Fluorohydrogenateâ€Polymer Composite Membrane Fuel Cells. Fuel Cells, 2015, 15, 604-609.	1.5	8
252	Cathodic Potential Dependence of Electrochemical Reduction of SiO2 Granules in Molten CaCl2. Metallurgical and Materials Transactions E, 2016, 3, 145-155.	0.5	8

#	Article	IF	Citations
253	Synthesis of main-group graphite fluoroanion salts with chlorine-assisted oxidation by Lewis-acid fluorides. Journal of Fluorine Chemistry, 1992, 57, 1-13.	0.9	7
254	Very strong hydrogen bonds in a bent chain structure of fluorohydrogenate anions in liquid Cs(FH)2.3F. Journal of Chemical Physics, 2008, 129, 014512.	1.2	7
255	Synthesis and Characterization of Fluorohydrogenate Ionic Liquids Based on Azoniaspiro-type Cations. Chemistry Letters, 2013, 42, 1469-1471.	0.7	7
256	A New Electrolytic Production Process of Silicon Using Liquid Zn Alloy Cathode in Molten Salt. ECS Transactions, 2016, 75, 17-33.	0.3	7
257	Improved performance of a conducting-bridge random access memory using ionic liquids. Journal of Materials Chemistry C, 2016, 4, 7215-7222.	2.7	7
258	TiO₂â€“Fe₂O₃ nanocomposites as high-capacity negative electrode materials for rechargeable sodium-ion batteries. Sustainable Energy and Fuels, 2017, 1, 371-376.	2.5	7
259	Crystallographic Insight into the Mg²⁺ Coordination Mode and N(SO₂CF₃)₂^{â€“} Anion Conformation in Mg[N(SO₂CF₃)₂]₂ and Its Adducts. European Journal of Inorganic Chemistry, 2017, 2017, 1087-1099.	1.0	7
260	Production of Gas-Phase Uranium Fluoroanions Via Solubilization of Uranium Oxides in the [1-Ethyl-3-Methylimidazolium]⁺[F(HF)_{2.3}]^{â^’} Ionic Liquid. Journal of the American Society for Mass Spectrometry, 2018, 29, 1963-1970.	1.2	7
261	Deoxofluorination of graphite oxide with sulfur tetrafluoride. Dalton Transactions, 2020, 49, 47-56.	1.6	7
262	Enhanced Performance Induced by Phase Transition of Li₂FeSiO₄ upon Cycling at High Temperature. ACS Applied Energy Materials, 2020, 3, 5722-5727.	2.5	7
263	Fluoride Ion Interactions in Alkali-Metal Fluorideâ€“Diol Complexes. Inorganic Chemistry, 2020, 59, 6631-6639.	1.9	7
264	Properties and initial discharge behaviour of graphite fluorides decomposed under chlorine. Journal of Applied Electrochemistry, 1986, 16, 223-228.	1.5	6
265	Dissolution equilibria of arsenic pentafluoride in anhydrous hydrogen fluoride. Journal of Fluorine Chemistry, 2001, 107, 97-100.	0.9	6
266	Structures of Highly Fluorinated Compounds of Layered Carbon. , 2017, , 283-303.		6
267	Ptâ€“Ru Anode Catalyst to Suppress H2O2Formation due to Oxygen Crossover. Journal of the Electrochemical Society, 2018, 165, F463-F467.	1.3	6
268	Optimization of the Carbon Content in Copper Phosphideâ€“Carbon Composites for High Performance Sodium Secondary Batteries Using Ionic Liquids. ChemElectroChem, 2020, 7, 2477-2484.	1.7	6
269	Oxidative Intercalation of Graphite by Fluoroanionic Species. Advances in Chemistry Series, 1989, , 391-402.	0.6	5
270	Chemical stability and electrochemical activity of xenon difluoride in propylene carbonate. Journal of Fluorine Chemistry, 2000, 106, 205-209.	0.9	5

#	Article	IF	Citations
271	Structural and Optical Properties of LiZnN Prepared by Electrochemical Formation in a LiClâ€“KClâ€“Li[sub 3]N Melt. Journal of the Electrochemical Society, 2006, 153, G83.	1.3	5
272	Thermodynamic and Kinetic Properties of Oxide Ions in a LiClâ€“KClâ€“CsCl Eutectic Melt. Journal of the Electrochemical Society, 2013, 160, E90-E93.	1.3	5
273	Effects of the polyfluoroalkyl side-chain on the properties of 1-methyl-3-polyfluoroalkylimidazolium fluorohydrogenate ionic liquids. Journal of Fluorine Chemistry, 2013, 149, 112-118.	0.9	5
274	Dualâ€Ion NiNc Battery: A Sustainable Revolution for Sodium Organic Batteries. Batteries and Supercaps, 2021, 4, 1605-1610.	2.4	5
275	Direct Electrolytic Reduction of Amorphous SiO₂ Powder Refined from Diatomaceous Earth. Transactions of the Materials Research Society of Japan, 2010, 35, 47-49.	0.2	5
276	Strategies for Harnessing High Rate and Cycle Performance from Graphite Electrodes in Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 14302-14312.	4.0	5
277	Electrochemical behavior of a graphite anode in fluorosulfonic acid at â^'78 Â°C. Journal of Fluorine Chemistry, 1998, 87, 185-188.	0.9	4
278	Thermodynamics of the O2/O2â^' redox couple in molten (LiCl+KCl+Li2O) systems. Journal of Chemical Thermodynamics, 2010, 42, 1230-1233.	1.0	4
279	Electrodeposition of tungsten from EMPyrCl-ZnCl₂ melts at 150ÂºC. Transactions of the Materials Research Society of Japan, 2010, 35, 35-37.	0.2	4
280	The Crystal to Plastic Crystal Phase Transition of Tetraethylammonium Difluorophosphate and Tetrafluoroborate. Chemistry Letters, 2012, 41, 394-396.	0.7	4
281	High-Performance Sodium Secondary Batteries Using Synergistic Effect of Amorphous SiP₂/C Anode and Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2020, 167, 070514.	1.3	4
282	Deoxofluorination of Activated Carbon Electrode with Sulfur Tetrafluoride for Electric Double Layer Capacitor. Electrochemistry, 2021, 89, 118-120.	0.6	4
283	Silicon Refining by Solidification from Liquid Siâ€“Zn Alloy and Floating Zone Method. Materials Transactions, 2021, 62, 403-411.	0.4	4
284	Anodic Hydrogen Electrode Reaction in Aluminum Chloride-1-Ethyl-3-methylimidazolium Chloride Ionic Liquids. Electrochemistry, 2005, 73, 644-650.	0.6	4
285	Oxidative Dissolution of Tungsten Metal in Na₂CO₃ under Arâ€“O₂â€“CO₂ Atmosphere. Journal of the Electrochemical Society, 2020, 167, 131501.	1.3	4
286	Charge-discharge properties and reaction mechanism of cation-disordered rutile-type Li1.2MnFe1.2F6.8. Electrochimica Acta, 2022, 405, 139627.	2.6	4
287	Electrochemical and Structural Behavior of Trirutile-Derived FeF₃ During Sodiation and Desodiation. ACS Applied Energy Materials, 2022, 5, 3137-3145.	2.5	4
288	Electrochemical behavior of graphite intercalated by fluorine. Journal of Power Sources, 1985, 14, 149-152.	4.0	3

#	Article	IF	Citations
289	Graphite fluorouranates and oxofluorouranates. Journal of Fluorine Chemistry, 1995, 75, 209-213.	0.9	3
290	Reactions of graphite hexafluoroarsenates with fluorobases in anhydrous hydrogen fluoride. Journal of Fluorine Chemistry, 1998, 88, 201-206.	0.9	3
291	Thermal decomposition mechanism of fluorineâ€“graphite intercalation compounds. Carbon, 2001, 39, 954-956.	5.4	3
292	Electrochemical preparation of graphite intercalation compounds containing a cyclic amide, [CF2(CF2SO2)2N]â¯. Journal of Fluorine Chemistry, 2009, 130, 581-585.	0.9	3
293	Electrochemical Capacitors Using Fluorohydrogenate Ionic Liquid Electrolytes. ECS Transactions, 2010, 33, 421-427.	0.3	3
294	Electrochemical behavior of hexafluoroniobate, heptafluorotungstate, and oxotetrafluorovanadate anions in N-butyl-N-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide room temperature ionic liquid. Journal of Fluorine Chemistry, 2011, 132, 673-678.	0.9	3
295	Electrochemical Synthesis of Graphite-Tetrafluoroaluminate Intercalation Compounds. Journal of the Electrochemical Society, 2012, 159, H876-H880.	1.3	3
296	Development of the camera for the large size telescopes of the Cherenkov Telescope Array. Proceedings of SPIE, 2014, , .	0.8	3
297	Generation of gasâ€phase zirconium fluoroanions by electrospray of an ionic liquid. Rapid Communications in Mass Spectrometry, 2014, 28, 1233-1242.	0.7	3
298	Inorganic-Organic Hybrid Ionic Liquid Electrolytes for Na Secondary Batteries. ECS Transactions, 2014, 64, 433-438.	0.3	3
299	Expansion of tetrachloroaluminate-graphite intercalation compound by reaction with anhydrous hydrogen fluoride. Carbon, 2014, 67, 434-439.	5.4	3
300	Effects of HF content in the (FH)_nF^{â¯}anion on the formation of ionic plastic crystal phases of N-ethyl-N-methylpyrrolidinium and N,N-dimethylpyrrolidinium fluorohydrogenate salts. Physical Chemistry Chemical Physics, 2014, 16, 1522-1528.	1.3	3
301	The Discrete AlF52-Fluoroaluminate Anion in the Structure of [Tetraethylammonium]2[AlF5](H2O)2. European Journal of Inorganic Chemistry, 2015, 2015, 5306-5310.	1.0	3
302	Iron Fluoroanions and Their Clusters by Electrospray Ionization of a Fluorinating Ionic Liquid. Journal of the American Society for Mass Spectrometry, 2015, 26, 1559-1569.	1.2	3
303	Fluorohydrogenate Ionic Liquids, Liquid Crystals, and Plastic Crystals. , 2015, , 103-123.		3
304	Structural modification by adding Li cations into Mg/Cs-TFSA molten salt facilitating Mg electrodeposition. RSC Advances, 2015, 5, 3063-3069.	1.7	3
305	Catalytic Activities of Pt–Metal Alloys on Oxygen Reduction Reaction in Fluorohydrogenate Ionic Liquid. Electrochemistry, 2016, 84, 766-768.	0.6	3
306	Electrodeposition of Si Film from Water-Soluble KF-KCl Molten Salt and Feasibility of SiCl₄ as a Si Source. ECS Transactions, 2016, 75, 593-601.	0.3	3

#	Article	IF	Citations
307	Structural evaluation and protium-deuterium exchange in 1-ethyl-3-methylimidazolium halide-ethylene glycol mixtures. Journal of Fluorine Chemistry, 2020, 239, 109637.	0.9	3
308	Stage-number dependence of intercalated species for fluorosilicate graphite intercalation compounds: pentafluorosilicate vs. hexafluorosilicate. Journal of Fluorine Chemistry, 2021, 242, 109714.	0.9	3
309	Generation of Elemental Fluorine through the Electrolysis of Copper Difluoride at Room Temperature. Angewandte Chemie - International Edition, 2021, 60, 7887-7892.	7.2	3
310	Octaphyrin(1.0.1.0.1.0.1.0) as an Organic Electrode for Li and Na Rechargeable Batteries. Small Methods, 2022, 6, e2101181.	4.6	3
311	A Î²â€â€Alumina/Inorganic Ionic Liquid Dual Electrolyte for Intermediateâ€Temperature Sodiumâ€“Sulfur Batteries (Adv. Funct. Mater. 48/2021). Advanced Functional Materials, 2021, 31, 2170352.	7.8	3
312	Intercalation of fluorometallate anions of Group VI metals and uranium in graphite. Journal of Fluorine Chemistry, 1995, 72, 23-28.	0.9	2
313	New Î±â€²-Type ET Salt (ET)2H2F3by Electrocrystallization Using Ionic Liquid. Chemistry Letters, 2007, 36, 226-227.	0.7	2
314	Physicochemical Properties of EMPyrCl-ZnCl2 Melts and Electrodeposition of Molybdenum from the Equimolar Melt at 150.DEG.C.. Electrochemistry, 2009, 77, 687-689.	0.6	2
315	Electrochemical Behavior of the Hexafluorouranate Anion in 1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide Room Temperature Ionic Liquid. Electrochemical and Solid-State Letters, 2011, 14, F1.	2.2	2
316	3ï¼Žä½Žèžç‚¹æº¶èžå¡©ãƒ®ãƒŠãƒˆãƒªã‚¦ãƒ ä¸ãƒŒæ¬¡»æ±ãª®å¿œç”¨. Electrochemistry, 2012, 80, 98-103.	0.6	2
317	Boron-Doped Diamond Electrodes in Molten Chloride Systems. , 2013, , 187-205.		2
318	Effect of CO and oxygen on anode degradation in polymer electrolyte fuel cell. Journal of Power Sources, 2013, 242, 421-424.	4.0	2
319	Fundamental Study on Reduction Rate for Electrolytic Reduction of SiO2 Powder in Molten CaCl2. ECS Transactions, 2013, 50, 119-126.	0.3	2
320	Ionic Liquid Polymer Electrolyte Based on Bis(fluorosulfonyl)Amide for Sodium Secondary Batteries. ECS Transactions, 2016, 75, 431-436.	0.3	2
321	Phase Behavior of the [N(C₂H₅)₄][BF₄]-[N(C₃H₇)₄][BF₄] Binary System. Electrochemistry, 2018, 86, 52-56.		2
322	Sodium Secondary Batteries: 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 (Adv. Sustainable Syst. 5/2018). Advanced Sustainable Systems, 2018, 2, 1870033.	2.7	2
323	Reactions of Uranium Fluorides with Graphite.. Journal of Nuclear Science and Technology, 1993, 30, 1075-1077.	0.7	2
324	Title is missing!. Electrochemistry, 2016, 84, 626-630.	0.6	2

#	Article	IF	Citations
325	Characteristics of graphite fluoride cathode prepared from residual carbon of graphite oxide.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 1471-1475.	0.1	1
326	Alkylimidazolium Fluorohydrogenates Room Temperature Molten Salts. ECS Proceedings Volumes, 2002, 2002-19, 1007-1013.	0.1	1
327	Morphologic and crystallographic studies on electrochemically formed chromium nitride films. Electrochimica Acta, 2007, 53, 122-126.	2.6	1
328	XPS Study and Optical Properties of Si Films Electrodeposited in a Room-Temperature Ionic Liquid. ECS Transactions, 2008, 13, 37-52.	0.3	1
329	é«˜æ©Ÿèƒ½ã‚ªãƒ³æ¶²ä½“ã®é–‹ç™ºã¨å¿œç”¨ã«é–¢ã™ã‚‹ç©¶. Electrochemistry, 2010, 78, 626.	0.6	1
330	2ï¼Žãƒ•ãƒ«ã‚ªãƒãƒ‰ã‚¤ã‚ªãƒ³æ¶²ä½“ã‚’ç”¨ã„ãŸé›»æ°—åŒ–å¦ãƒ—ãƒã‚»ã‚¹ã®é–‹ç™ºã«é–¢ã™ã‚‹ç©¶. Electrochemistry, 2013, 81, 698-701.	0.6	1
331	Selective Formation of Rare Earth-Nickel Alloys via Electrochemical Reactions in NaCl-KCl Molten Salt. ECS Transactions, 2014, 64, 601-607.	0.3	1
332	Ionic Liquid Materials Based on Fluoroanions. , 2017, , 671-695.		1
333	Structural and Thermal Properties of Airâ€Stable [Mg(1â€methylimidazole)₆][N(SO₂CF₃)₂]₂. European Journal of Inorganic Chemistry, 2017, 2017, 5656-5662.	1.0	1
334	Generation of Elemental Fluorine through the Electrolysis of Copper Difluoride at Room Temperature. Angewandte Chemie, 2021, 133, 7966-7971.	1.6	1
335	Reactions of Uranium Fluorides with Graphite. Journal of Nuclear Science and Technology, 1993, 30, 1075-1077.	0.7	0
336	Synthetic, Structural and Thermal Studies of Ag(I)â€”XeF2 Complex Salts.. ChemInform, 2003, 34, no.	0.1	0
337	Halofluorination of Alkenes with Ionic Liquid EMIMF(HF)2.3.. ChemInform, 2004, 35, no.	0.1	0
338	A Mild Ring Opening Fluorination of Epoxide with Ionic Liquid 1-Ethyl-3-methylimidazorium Oligo Hydrogenfluoride (EMIMF(HF)2.3).. ChemInform, 2004, 35, no.	0.1	0
339	Novel Fluoroanion Salts. , 2005, , 225-235.		0
340	A Mild Method for Halofluorination of Alkenes with Ionic Liquid EMIMF(HF)2.3.. ChemInform, 2005, 36, no.	0.1	0
341	Room-temperature molten salts as new electrolytes. , 2005, , 349-368.		0
342	Simple Fabrication of Silicon Nanowires by Zinc-Thermal Reduction of Silicon Tetrachloride at 773 K. Electrochemical and Solid-State Letters, 2011, 14, K63.	2.2	0

#	Article	IF	Citations
343	Polymorphic Behavior of Alkali Metal Bis(Fluorosulfonyl)Amides. ECS Meeting Abstracts, 2012, , .	0.0	0
344	Versatile Applications of Ionic Liquids. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 66-69.	0.1	0
345	Sodium-Ion Secondary Batteries Using Ionic Liquids as Electrolytes. , 2017, , 197-208.		0
346	Application of Intermediate Temperature Ionic Liquids for Electrolytes of Secondary Batteries. Oleoscience, 2018, 18, 175-184.	0.0	0
347	Recycle of Tungsten from Cemented Carbide Tools Utilizing Molten Carbonates. Denki Kagaku, 2021, 89, 21-26.	0.0	0
348	Behavior of a Boron-Doped Diamond Electrode in Molten Chlorides Containing Oxide Ion. Green Energy and Technology, 2010, , 234-239.	0.4	0
349	Magnesium silicide film on a silicon substrate prepared by electrochemical method in LiCl-KCl. Transactions of the Materials Research Society of Japan, 2010, 35, 77-80.	0.2	0
350	Title is missing!. Electrochemistry, 2016, 84, 736-740.	0.6	0
351	Octaphyrin(1.0.1.0.1.0.1.0) as an Organic Electrode for Li and Na Rechargeable Batteries (Small Methods) Tj ETQq1 1 0.784314 rgBT	4.6	0