

Rika Hagiwara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

342 papers	9,162 citations	49 h-index	80 g-index
375 ext. papers	10,027 ext. citations	5.1 avg, IF	6.34 L-index

#	Paper	IF	Citations
342	Octaphyrin(1.0.1.0.1.0.1.0) as an Organic Electrode for Li and Na Rechargeable Batteries.. <i>Small Methods</i> , 2022 , 6, e2101181	12.8	0
341	Electrochemical and Structural Behavior of Trirutile-Derived FeF ₃ During Sodiation and Desodiation. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3137-3145	6.1	1
340	Octaphyrin(1.0.1.0.1.0.1.0) as an Organic Electrode for Li and Na Rechargeable Batteries (Small Methods 3/2022). <i>Small Methods</i> , 2022 , 6, 2270019	12.8	
339	In Situ Orthorhombic to Amorphous Phase Transition of NbO and Its Temperature Effect on Pseudocapacitive Behavior.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
338	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. <i>EnergyChem</i> , 2022 , 1000756.9	5.6	5
337	Charge-discharge properties and reaction mechanism of cation-disordered rutile-type Li _{1.2} MnFe _{1.2} F _{6.8} . <i>Electrochimica Acta</i> , 2021 , 405, 139627	6.7	1
336	A Al ₂ O ₃ /Alumina/Inorganic Ionic Liquid Dual Electrolyte for Intermediate-Temperature Sodium/Sulfur Batteries (Adv. Funct. Mater. 48/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170352	15.6	2
335	Benefits of the Mixtures of Ionic Liquid and Organic Electrolytes for Sodium-ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 030508	3.9	2
334	Deoxofluorination of Activated Carbon Electrode with Sulfur Tetrafluoride for Electric Double Layer Capacitor. <i>Electrochemistry</i> , 2021 , 89, 118-120	1.2	3
333	Recycle of Tungsten from Cemented Carbide Tools Utilizing Molten Carbonates. <i>Denki Kagaku</i> , 2021 , 89, 21-26	0	
332	Silicon Refining by Solidification from Liquid Si ₃ N ₄ Alloy and Floating Zone Method. <i>Materials Transactions</i> , 2021 , 62, 403-411	1.3	1
331	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
330	Vanadium diphosphide as a negative electrode material for sodium secondary batteries. <i>Journal of Power Sources</i> , 2021 , 483, 229182	8.9	5
329	Stage-number dependence of intercalated species for fluorosilicate graphite intercalation compounds: pentafluorosilicate vs. hexafluorosilicate. <i>Journal of Fluorine Chemistry</i> , 2021 , 242, 109714	2.1	1
328	Dual-ion charge/discharge behaviors of Na ₂ Ni ₂ C ₂ O ₇ and Ni ₂ C ₂ O ₇ batteries. <i>Materials Advances</i> , 2021 , 2, 2263-2266	3.3	7
327	Sodium difluorophosphate: facile synthesis, structure, and electrochemical behavior as an additive for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3637-3647	13	4
326	Phase Evolution of Trirutile Li _{0.5} FeF ₃ for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 868-880.6	9.6	7

325	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
324	Generation of Elemental Fluorine through the Electrolysis of Copper Difluoride at Room Temperature. <i>Angewandte Chemie</i> , 2021 , 133, 7966-7971	3.6	
323	Generation of Elemental Fluorine through the Electrolysis of Copper Difluoride at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7887-7892	16.4	2
322	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
321	A γ -Alumina/Inorganic Ionic Liquid Dual Electrolyte for Intermediate-Temperature Sodium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2105524	15.6	3
320	Dual-Ion NiNc Battery: A Sustainable Revolution for Sodium Organic Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 1605	5.6	2
319	Mixed alkali-ion transport and storage in atomic-disordered honeycomb layered NaKNiTeO. <i>Nature Communications</i> , 2021 , 12, 4660	17.4	7
318	Structural evaluation and protium-deuterium exchange in 1-ethyl-3-methylimidazolium halide-ethylene glycol mixtures. <i>Journal of Fluorine Chemistry</i> , 2020 , 239, 109637	2.1	1
317	High-Performance Sodium Secondary Batteries Using Synergistic Effect of Amorphous SiP ₂ /C Anode and Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 070514	3.9	2
316	Enhanced Performance Induced by Phase Transition of Li ₂ FeSiO ₄ upon Cycling at High Temperature. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5722-5727	6.1	5
315	Optimization of the Carbon Content in Copper Phosphide/Carbon Composites for High Performance Sodium Secondary Batteries Using Ionic Liquids. <i>ChemElectroChem</i> , 2020 , 7, 2477-2484	4.3	3
314	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
313	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
312	Potassium Single Cation Ionic Liquid Electrolyte for Potassium-Ion Batteries. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6341-6347	3.4	7
311	High-voltage honeycomb layered oxide positive electrodes for rechargeable sodium batteries. <i>Chemical Communications</i> , 2020 , 56, 9272-9275	5.8	8
310	Fluoride Ion Interactions in Alkali-Metal Fluoride-Diol Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 6631-6639	3.9	6
309	Discharge Characteristic of Fluorinated Graphene-like Graphite as a Cathode of Lithium Primary Battery. <i>Electrochemistry</i> , 2020 , 88, 437-440	1.2	1
308	Oxidative Dissolution of Tungsten Metal in Na ₂ CO ₃ under Ar/D ₂ O ₂ Atmosphere. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 131501	3.9	3

307	Microscopic characterization of the C ₆ H bonds in fluorine-graphite intercalation compounds. <i>Journal of Power Sources</i> , 2020 , 445, 227320	8.9	10
306	Deoxofluorination of graphite oxide with sulfur tetrafluoride. <i>Dalton Transactions</i> , 2020 , 49, 47-56	4.3	3
305	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
304	An Energy-Dense Solvent-Free Dual-Ion Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 2003557	15.6	14
303	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
302	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
301	Potassium Difluorophosphate as an Electrolyte Additive for Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36168-36176	9.5	12
300	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
299	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
298	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
297	Zinc-Air Batteries: A Room-Temperature Molten Hydrate Electrolyte for Rechargeable Zinc-Air Batteries (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970086	21.8	3
296	A Room-Temperature Molten Hydrate Electrolyte for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900196	21.8	78
295	Mechanism of Electrolytic Reduction of SiO ₂ at Liquid Zn Cathode in Molten CaCl ₂ . <i>Journal of the Electrochemical Society</i> , 2019 , 166, D162-D167	3.9	7
294	Na ₃ V ₂ (PO ₄) ₃ @Carbon Nanofibers: High Mass Loading Electrode Approaching Practical Sodium Secondary Batteries Utilizing Ionic Liquid Electrolytes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2818-2827	6.1	28
293	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
292	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
291	Quantitative Elucidation of the Non-Equilibrium Phase Transition in LiFePO ₄ via the Intermediate Phase. <i>Chemistry of Materials</i> , 2019 , 31, 7160-7166	9.6	15
290	Reaction Pathways of Iron Trifluoride Investigated by Operation at 363 K Using an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2105-A2110	3.9	8

289	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
288	Advances in sodium secondary batteries utilizing ionic liquid electrolytes. <i>Energy and Environmental Science</i> , 2019 , 12, 3247-3287	35.4	88
287	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
286	CuP2/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
285	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. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700171	5.9	29
284	Crystalline maricite NaFePO4 as a positive electrode material for sodium secondary batteries operating at intermediate temperature. <i>Journal of Power Sources</i> , 2018 , 377, 80-86	8.9	28
283	Phase Behavior of the [N(C2H5)4][BF4]-[N(C3H7)4][BF4] Binary System. <i>Electrochemistry</i> , 2018 , 86, 52-56	5.2	1
282	High-capacity FeTiO3/C negative electrode for sodium-ion batteries with ultralong cycle life. <i>Journal of Power Sources</i> , 2018 , 388, 19-24	8.9	13
281	PtRu Anode Catalyst to Suppress H2O2 Formation due to Oxygen Crossover. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F463-F467	3.9	1
280	13C/19F high-resolution solid-state NMR studies on layered carbon-fluorine compounds. <i>Carbon</i> , 2018 , 138, 179-187	10.4	16
279	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). <i>Advanced Sustainable Systems</i> , 2018 , 2, 1870033	5.9	1
278	Sodium Ion Batteries using Ionic Liquids as Electrolytes. <i>Chemical Record</i> , 2018 , 19, 758	6.6	18
277	Stabilization of SF with Glyme-Coordinated Alkali Metal Cations. <i>Inorganic Chemistry</i> , 2018 , 57, 14882-14889	5.89	10
276	Partially Naked Fluoride in Solvate Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6662-6667	6.4	9
275	Silicon Electrodeposition in a Water-Soluble KFeCl Molten Salt: Effects of Temperature and Current Density. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D825-D831	3.9	7
274	Symmetric Cell Electrochemical Impedance Spectroscopy of Na2FeP2O7 Positive Electrode Material in Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26857-26864	3.8	21
273	Application of Intermediate Temperature Ionic Liquids for Electrolytes of Secondary Batteries. <i>Oleoscience</i> , 2018 , 18, 175-184	0.1	
272	Production of Gas-Phase Uranium Fluoroanions Via Solubilization of Uranium Oxides in the [1-Ethyl-3-Methylimidazolium][F(HF)] Ionic Liquid. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1963-1970	3.5	5

271	TiO ₂ @Fe ₂ O ₃ nanocomposites as high-capacity negative electrode materials for rechargeable sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 371-376	5.8	6
270	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
269	Charge-discharge performance of Na _{2/3} Fe _{1/3} Mn _{2/3} O ₂ positive electrode in an ionic liquid electrolyte at 90 °C for sodium secondary batteries. <i>Electrochimica Acta</i> , 2017 , 231, 412-416	6.7	12
268	Electrochemical performance of Na ₂ Ti ₃ O ₇ /C negative electrode in ionic liquid electrolyte for sodium secondary batteries. <i>Journal of Power Sources</i> , 2017 , 354, 10-15	8.9	34
267	Charge/Discharge Properties of a Sn ₄ P ₃ Negative Electrode in Ionic Liquid Electrolyte for Na-Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1139-1143	20.1	83
266	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
265	Sodium-Ion Secondary Batteries Using Ionic Liquids as Electrolytes 2017 , 197-208		
264	Electrolytic Production of Silicon Using Liquid Zinc Alloy in Molten CaCl ₂ . <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5049-H5056	3.9	13
263	Ionic Liquid Materials Based on Fluoroanions 2017 , 671-695		
262	Formation of a solid solution between [N(CH ₃)] ⁺ [BF ₄] [−] and [N(CH ₃)] ⁺ [PF ₆] [−] in crystal and plastic crystal phases. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2053-2059	3.6	9
261	Electrochemical Sodiation-desodiation of Maricite NaFePO ₄ in Ionic Liquid Electrolyte. <i>Electrochemistry</i> , 2017 , 85, 675-679	1.2	14
260	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
259	Structures of Highly Fluorinated Compounds of Layered Carbon 2017 , 283-303		4
258	Editors' ChoiceSilicon Electrodeposition in a Water-Soluble K ⁺ Cl [−] Molten Salt: Utilization of SiCl ₄ as Si Source. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D67-D71	3.9	15
257	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
256	Structural and Thermal Properties of Air-Stable [Mg(1-methylimidazole) ₆][N(SO ₂ CF ₃) ₂] ₂ . <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5656-5662	2.3	
255	Structural and Electrochemical Properties of Hard Carbon Negative Electrodes for Sodium Secondary Batteries Using the Na[FSA]–[C ₃ C ₁ pyrr][FSA] Ionic Liquid Electrolyte. <i>Electrochemistry</i> , 2017 , 85, 391-396	1.2	10
254	Electrochemical behavior of Sn/Fe alloy film negative electrodes for a sodium secondary battery using inorganic ionic liquid Na[FSA]–[FSA]. <i>Electrochimica Acta</i> , 2016 , 211, 234-244	6.7	20

253	A New Electrolytic Production Process of Silicon Using Liquid Zn Alloy Cathode in Molten Salt. <i>ECS Transactions</i> , 2016 , 75, 17-33	1	4
252	A new sodiation-desodiation mechanism of the titania-based negative electrode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 30770-30776	3.6	11
251	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
250	Homoleptic octahedral coordination of CH ₃ CN to Mg(2+) in the Mg[N(SO ₂ CF ₃) ₂] ₂ -CH ₃ CN system. <i>Dalton Transactions</i> , 2016 , 45, 2810-3	4.3	9
249	Charge/discharge behavior of Sn/Ni alloy film electrodes in an intermediate temperature ionic liquid for the electrolyte of a sodium secondary battery. <i>Electrochimica Acta</i> , 2016 , 193, 275-283	6.7	12
248	Performance validation of sodium-ion batteries using an ionic liquid electrolyte. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 487-496	2.6	36
247	The Role of Granule Size on the Kinetics of Electrochemical Reduction of SiO ₂ Granules in Molten CaCl ₂ . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 788-797	2.5	17
246	?? ?????????????? ?????????????~?????~. <i>Electrochemistry</i> , 2016 , 84, 626-630	1.2	2
245	?5? ?????????????? ?????????????~???~. <i>Electrochemistry</i> , 2016 , 84, 736-740	1.2	
244	Versatile Applications of Ionic Liquids. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016 , 67, 66-69	0.1	
243	Cathodic Potential Dependence of Electrochemical Reduction of SiO ₂ Granules in Molten CaCl ₂ . <i>Metallurgical and Materials Transactions E</i> , 2016 , 3, 145-155		8
242	Catalytic Activities of Pt–Metal Alloys on Oxygen Reduction Reaction in Fluorohydrogenate Ionic Liquid. <i>Electrochemistry</i> , 2016 , 84, 766-768	1.2	3
241	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
240	Selective Formation of Rare-Earth–Nickel Alloys via Electrochemical Reactions in NaCl–Cl Molten Salt. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D140-D145	3.9	12
239	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
238	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
237	Silicon Electrodeposition in Water-Soluble K–Cl Molten Salt: Optimization of Electrolysis Conditions at 923 K. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D95-D99	3.9	23
236	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

235	Crystal structure of $\text{Na}[\text{N}(\text{SO}_2\text{CF}_3)_2]_2$ and coordination environment of alkali metal cation in the $\text{M}[\text{N}(\text{SO}_2\text{CF}_3)_2]_2$ ($\text{M} = \text{Li}^+, \text{Na}^+, \text{K}^+, \text{and Cs}^+$) structures. <i>Journal of Fluorine Chemistry</i> , 2015 , 174, 42-48	2.1	10
234	Fluorohydrogenate Ionic Liquids, Liquid Crystals, and Plastic Crystals 2015 , 103-123		2
233	Silicon Electrodeposition in Water-Soluble KF/KCl Molten Salt: Investigations on the Reduction of Si(IV) Ions. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D444-D448	3.9	42
232	Electrochemical performance of hard carbon negative electrodes for ionic liquid-based sodium ion batteries over a wide temperature range. <i>Electrochimica Acta</i> , 2015 , 176, 344-349	6.7	55
231	Thermal and Transport Properties of $\text{Na}[\text{N}(\text{SO}_2\text{F})_2][\text{N-Methyl-N-propylpyrrolidinium}][\text{N}(\text{SO}_2\text{F})_2]$ Ionic Liquids for Na Secondary Batteries. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7648-7655	3.8	93
230	Improved Electrochemical Performance of NaVOPO_4 Positive Electrodes at Elevated Temperature in an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2093-A2098	3.9	24
229	Room Temperature Magnesium Electrodeposition from Glyme-Coordinated Ammonium Amide Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D389-D396	3.9	32
228	A high-capacity TiO_2/C negative electrode for sodium secondary batteries with an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20767-20771	13	32
227	Structural modification by adding Li cations into Mg/Cs-TFSA molten salt facilitating Mg electrodeposition. <i>RSC Advances</i> , 2015 , 5, 3063-3069	3.7	3
226	Full Utilization of Superior Charge-Discharge Characteristics of $\text{Na}_{1.56}\text{Fe}_{1.22}\text{P}_2\text{O}_7$ Positive Electrode by Using Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A176-A180	3.9	33
225	Charge-discharge Performance of an Ionic Liquid-based Sodium Secondary Battery in a Wide Temperature Range. <i>Electrochemistry</i> , 2015 , 83, 91-94	1.2	21
224	The Discrete AlF_5^{2-} Fluoroaluminate Anion in the Structure of $[\text{Tetraethylammonium}]_2[\text{AlF}_5](\text{H}_2\text{O})_2$. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 5306-5310	2.3	1
223	Advantages of a Polyimide Membrane Support in Nonhumidified Fluorohydrogenate-Polymer Composite Membrane Fuel Cells. <i>Fuel Cells</i> , 2015 , 15, 604-609	2.9	6
222	Nonhumidified Fuel Cells Using N-Ethyl-N-methyl-pyrrolidinium Fluorohydrogenate Ionic Liquid-poly(Vinylidene Fluoride-Hexafluoropropylene) Composite Membranes. <i>Energies</i> , 2015 , 8, 6202-6214	3.14	6
221	Iron Fluoroanions and Their Clusters by Electrospray Ionization of a Fluorinating Ionic Liquid. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1559-69	3.5	3
220	Inorganic/Organic Hybrid Ionic Liquid Electrolytes for Na Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1409-A1414	3.9	23
219	A New Electrodeposition Process of Crystalline Silicon Utilizing Water-Soluble KF-KCl Molten Salt. <i>ECS Transactions</i> , 2014 , 64, 285-291	1	10
218	The structural classification of the highly disordered crystal phases of $[\text{Nn}][\text{BF}_4]$, $[\text{Nn}][\text{PF}_6]$, $[\text{Pn}][\text{BF}_4]$, and $[\text{Pn}][\text{PF}_6]$ salts ($\text{Nn}(+) = \text{tetraalkylammonium}$ and $\text{Pn}(+) = \text{tetraalkylphosphonium}$). <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23616-26	3.6	27

217	Effects of HF content in the (FH)(n)F ⁻ anion on the formation of ionic plastic crystal phases of N-ethyl-N-methylpyrrolidinium and N,N-dimethylpyrrolidinium fluorohydrogenate salts. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1522-8	3.6	2
216	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
215	Reaction Behavior of Stratified SiO ₂ Granules during Electrochemical Reduction in Molten CaCl ₂ . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 1337-1344	2.5	19
214	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
213	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
212	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
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2	Novel Fluoroanion Salts	279-291

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