

# Patrick C Howlett

## List of Publications by Year in descending order

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199  
papers

13,311  
citations

34493

54  
h-index

28425

109  
g-index

207  
all docs

207  
docs citations

207  
times ranked

12512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the Impact of the Cations and Anions in Ionic Liquid/Glyme Hybrid Electrolytes for Na <sup>+</sup> O <sup>2-</sup> Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4022-4034.	4.0	9
2	Interphase control for high performance lithium metal batteries using ether aided ionic liquid electrolyte. Energy and Environmental Science, 2022, 15, 1907-1919.	15.6	62
3	Ion Transport in Li-Doped Triethyl(methyl)phosphonium Tetrafluoroborate (Li-[P <sup>+</sup> 1222][BF <sup>-</sup> 4]) Impregnated with PVDF Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 3839-3852.	1.5	9
4	High-Performance Cycling of Na Metal Anodes in Phosphonium and Pyrrolidinium Fluoro(sulfonyl)imide Based Ionic Liquid Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 15784-15798.	4.0	24
5	Morphological Evolution and Solid <sup>+</sup> Electrolyte Interphase Formation on LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathodes Using Highly Concentrated Ionic Liquid Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 13196-13205.	4.0	9
6	Fast Charge and High Stability of Solid <sup>+</sup> State Graphite Organic Ionic Plastic Crystal Composite Anodes. Batteries and Supercaps, 2022, 5, .	2.4	5
7	Stable and Efficient Lithium Metal Anode Cycling through Understanding the Effects of Electrolyte Composition and Electrode Preconditioning. Chemistry of Materials, 2022, 34, 165-177.	3.2	22
8	Tunable multi-doped carbon nanofiber air cathodes based on a poly(ionic liquid) for sodium oxygen batteries with diglyme/ionic liquid-based hybrid electrolytes. Journal of Materials Chemistry A, 2022, 10, 11742-11754.	5.2	6
9	Sustainable Free <sup>+</sup> Standing Electrode from Biomass Waste for Sodium <sup>+</sup> Ion Batteries. ChemElectroChem, 2022, 9, .	1.7	10
10	Cover Picture: Fast Charge and High Stability of Solid <sup>+</sup> State Graphite Organic Ionic Plastic Crystal Composite Anodes (Batteries & Supercaps 7/2022). Batteries and Supercaps, 2022, 5, .	2.4	1
11	Ultra-stable all-solid-state sodium metal batteries enabled by perfluoropolyether-based electrolytes. Nature Materials, 2022, 21, 1057-1065.	13.3	92
12	Unravelling the Role of Speciation in Glyme:Ionic Liquid Hybrid Electrolytes for Na <sup>+</sup> O <sup>2-</sup> Batteries. Batteries and Supercaps, 2021, 4, 513-521.	2.4	8
13	SEI Formation on Sodium Metal Electrodes in Superconcentrated Ionic Liquid Electrolytes and the Effect of Additive Water. ACS Applied Materials & Interfaces, 2021, 13, 5706-5720.	4.0	34
14	Functional Binders Based on Polymeric Ionic Liquids for Sodium Oxygen Batteries Using Ionic Liquid Electrolytes. ACS Applied Energy Materials, 2021, 4, 434-444.	2.5	11
15	Phase behavior and electrochemical properties of solid lithium electrolytes based on N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide and PVDF composites. Solid State Ionics, 2021, 363, 115588.	1.3	7
16	Iron-Based, Symmetric, Non-Aqueous Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-01, 2098-2098.	0.0	0
17	Understanding the Role of Separator and Electrolyte Compatibility on Lithium Metal Anode Performance Using Ionic Liquid-Based Electrolytes. ACS Applied Energy Materials, 2021, 4, 6310-6323.	2.5	12
18	Highly conductive ionogel electrolytes based on N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide FSI and NaFSI mixtures and their applications in sodium batteries. JPhys Materials, 2021, 4, 044005.	1.8	12

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19	Tuning the Formation and Structure of the Silicon Electrode/Ionic Liquid Electrolyte Interphase in Superconcentrated Ionic Liquids. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28281-28294.	4.0	21
20	Stabilisation of the superoxide anion in bis(fluorosulfonyl)imide (FSI) ionic liquid by small chain length phosphonium cations: Voltammetric, DFT modelling and spectroscopic perspectives. <i>Electrochemistry Communications</i> , 2021, 127, 107029.	2.3	4
21	Anion-Derived Solid-Electrolyte Interphase Enables Long Life Na-Ion Batteries Using Superconcentrated Ionic Liquid Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 2481-2490.	8.8	52
22	Improving Cycle Life through Fast Formation Using a Superconcentrated Phosphonium Based Ionic Liquid Electrolyte for Anode-Free and Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 6399-6407.	2.5	16
23	Lithium Borate Ester Salts for Electrolyte Application in Next-Generation High Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101422.	10.2	34
24	Anion effects on the properties of OIPC/PVDF composites. <i>Materials Advances</i> , 2021, 2, 1683-1694.	2.6	17
25	Application of super-concentrated phosphonium based ionic liquid electrolyte for anode-free lithium metal batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4141-4152.	2.5	11
26	(Invited) Tuning the Formation and Structure of the Silicon Electrode/Electrolyte Interphase in Superconcentrated Ionic Liquids. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 224-224.	0.0	0
27	Nanofiber-reinforced polymer electrolytes toward room temperature solid-state lithium batteries. <i>Journal of Power Sources</i> , 2020, 448, 227424.	4.0	34
28	Towards high rate Li metal anodes: enhanced performance at high current density in a superconcentrated ionic liquid. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3574-3579.	5.2	25
29	Ion interactions and dynamics in pseudohalide based ionic liquid electrolytes containing sodium solutes. <i>Journal of Molecular Liquids</i> , 2020, 303, 112597.	2.3	4
30	Solid (cyanomethyl)trimethylammonium salts for electrochemically stable electrolytes for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14721-14735.	5.2	9
31	Stable performance of an all-solid-state Li metal cell coupled with a high-voltage NCA cathode and ultra-high lithium content poly(ionic liquid)s-based polymer electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2479-2485.	1.2	13
32	High Current Cycling in a Superconcentrated Ionic Liquid Electrolyte to Promote Uniform Li Morphology and a Uniform LiF-Rich Solid Electrolyte Interphase. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42236-42247.	4.0	23
33	Enhanced ion transport in an ether aided super concentrated ionic liquid electrolyte for long-life practical lithium metal battery applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18826-18839.	5.2	40
34	Engineering high-energy-density sodium battery anodes for improved cycling with superconcentrated ionic-liquid electrolytes. <i>Nature Materials</i> , 2020, 19, 1096-1101.	13.3	156
35	An investigation of commercial carbon air cathode structure in ionic liquid based sodium oxygen batteries. <i>Scientific Reports</i> , 2020, 10, 7123.	1.6	17
36	Formation of a corrosion-resistant coating on zinc by a duplex plasma electrolytic oxidation and conversion surface treatment. <i>Surface and Coatings Technology</i> , 2020, 395, 125918.	2.2	7

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37	Polymerized Ionic Liquid Block Copolymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070525.	1.3	22
38	Lithium Sulfonate Functionalization of Carbon Cathodes as a Substitute for Lithium Nitrate in the Electrolyte of Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2002485.	7.8	16
39	A safe Li-Se battery in an ionic liquid-based electrolyte operating at 25–70 °C by using a N,S,O tri-doped mesoporous carbon host material. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2322-2332.	2.5	15
40	Stable High-Temperature Cycling of Na Metal Batteries on Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> Cathodes in NaFSI-Rich Organic Ionic Plastic Crystal Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2092-2100.	2.1	27
41	Highly Homogeneous Sodium Superoxide Growth in Na-O <sub>2</sub> Batteries Enabled by a Hybrid Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 903-909.	8.8	16
42	The influence of interfacial interactions on the conductivity and phase behaviour of organic ionic plastic crystal/polymer nanoparticle composite electrolytes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5350-5362.	5.2	26
43	Toward High-Energy-Density Lithium Metal Batteries: Opportunities and Challenges for Solid Organic Electrolytes. <i>Advanced Materials</i> , 2020, 32, e1905219.	11.1	154
44	Macrophase-Separated Organic Ionic Plastic Crystals/PAMPS-Based Ionomer Electrolyte: A New Design Perspective for Flexible and Highly Conductive Solid-State Electrolytes. <i>ACS Omega</i> , 2020, 5, 2931-2938.	1.6	4
45	Structuring PEDOT Hollow Nanosphere Electrodes for High Specific Energy Li-Metal   Polymer Thin-Film Batteries. <i>ACS Applied Nano Materials</i> , 2020, 3, 3820-3828.	2.4	5
46	A novel proton conducting ionogel electrolyte based on poly(ionic liquids) and protic ionic liquid. <i>Electrochimica Acta</i> , 2020, 346, 136224.	2.6	24
47	Editors' Choice Understanding the Superior Cycling Performance of Si Anode in Highly Concentrated Phosphonium-Based Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120520.	1.3	23
48	Electrochemical Formation in Super-Concentrated Phosphonium Based Ionic Liquid Electrolyte Using Symmetric Li-Metal Coin Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120526.	1.3	16
49	New Solid-State Electrolytes Based on Organic Ionic Plastic Crystals. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 803-803.	0.0	0
50	Controlling the Three-Phase Boundary in Na-Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. <i>ChemSusChem</i> , 2019, 12, 4054-4063.	3.6	12
51	Poly(ionic liquid)s/Electrospun Nanofiber Composite Polymer Electrolytes for High Energy Density and Safe Li Metal Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6237-6245.	2.5	63
52	High Coulombic Efficiency Na-O <sub>2</sub> Batteries Enabled by a Bilayer Ionogel/Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7050-7055.	2.1	11
53	Tuning Sodium Interfacial Chemistry with Mixed-Anion Ionic Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43093-43106.	4.0	36
54	Toward Practical Li Metal Batteries: Importance of Separator Compatibility Using Ionic Liquid Electrolytes. <i>ACS Applied Energy Materials</i> , 2019, 2, 6655-6663.	2.5	29

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55	Poly(Ionic Liquid)s-in-Salt Electrolytes with Co-coordination-Assisted Lithium-Ion Transport for Safe Batteries. <i>Joule</i> , 2019, 3, 2687-2702.	11.7	108
56	UV-Cross-Linked Ionogels for All-Solid-State Rechargeable Sodium Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6960-6966.	2.5	25
57	Supported Ionic Liquid Gel Membrane Electrolytes for a Safe and Flexible Sodium Metal Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3722-3726.	3.2	56
58	Sustainable, Dendrite Free Lithium-Metal Electrode Cycling Achieved with Polymer Composite Electrolytes Based on a Poly(Ionic Liquid) Host. <i>Batteries and Supercaps</i> , 2019, 2, 229-239.	2.4	35
59	Water as an Effective Additive for High-Energy Density Na Metal Batteries? Studies in a Superconcentrated Ionic Liquid Electrolyte. <i>ChemSusChem</i> , 2019, 12, 1700-1711.	3.6	36
60	Artificial SEI Transplantation: A Pathway to Enabling Lithium Metal Cycling in Water-Containing Electrolytes. <i>ACS Applied Energy Materials</i> , 2019, 2, 8912-8918.	2.5	6
61	Enabling High Lithium Conductivity in Polymerized Ionic Liquid Block Copolymer Electrolytes. <i>Batteries and Supercaps</i> , 2019, 2, 132-138.	2.4	28
62	Extreme properties of double networked ionogel electrolytes for flexible and durable energy storage devices. <i>Energy Storage Materials</i> , 2019, 19, 197-205.	9.5	54
63	Si Anode in High-Salt Concentration Ionic Liquid Electrolytes Based on Pyrrolidinium and Phosphonium Systems for High-Energy Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
64	Probing the Interactions and Dynamics in an Ionic Liquid "Organic Solvent Hybrid Electrolyte System for Potential Application in Li-S Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
65	(Keynote) Ionic Liquids, Mixed Electrolytes and Their Ionogels for Stable Na Metal Devices. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
66	Electrolyte Solvent Mixtures for a Symmetric, Non-Aqueous Redox Flow Battery Based on [Fe(bpy) <sub>3</sub> ][Fsi] <sub>2</sub> . <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
67	A Fundamental Understanding of Sulphur Speciation in Ionic Liquids By in-Situ UV-Vis Method. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
68	(Invited) Ionic Liquid Electrolytes and Ionogel Composites That Enable High Capacity Anodes for Lithium and Sodium Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
69	Surprising Enhancement in the Ion Transport Properties and Sodium Metal Cycling in a Water Tolerant Ionic Liquid Electrolyte. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
70	Lubricin Antiadhesive Coatings Exhibit Size-Selective Transport Properties that Inhibit Biofouling of Electrode Surfaces with Minimal Loss in Electrochemical Activity. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701296.	1.9	31
71	Beneficial effect of added water on sodium metal cycling in super concentrated ionic liquid sodium electrolytes. <i>Journal of Power Sources</i> , 2018, 379, 344-349.	4.0	29
72	The effect of cation chemistry on physicochemical behaviour of superconcentrated NaFSI based ionic liquid electrolytes and the implications for Na battery performance. <i>Electrochimica Acta</i> , 2018, 268, 94-100.	2.6	31

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73	The influence of the size and symmetry of cations and anions on the physicochemical behavior of organic ionic plastic crystal electrolytes mixed with sodium salts. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4721-4731.	1.3	26
74	Spectroscopic Characterization of the SEI Layer Formed on Lithium Metal Electrodes in Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6719-6729.	4.0	77
75	The influence of anion chemistry on the ionic conductivity and molecular dynamics in protic organic ionic plastic crystals. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4579-4586.	1.3	7
76	An ionic liquid based sodium metal-hybrid supercapacitor-battery. <i>Sustainable Energy and Fuels</i> , 2018, 2, 763-771.	2.5	20
77	Ionic Liquids and Organic Ionic Plastic Crystals: Advanced Electrolytes for Safer High Performance Sodium Energy Storage Technologies. <i>Advanced Energy Materials</i> , 2018, 8, 1703491.	10.2	109
78	Towards thermally stable high performance lithium-ion batteries: the combination of a phosphonium cation ionic liquid and a 3D porous molybdenum disulfide/graphene electrode. <i>Chemical Communications</i> , 2018, 54, 5338-5341.	2.2	10
79	Passivation behaviour of aluminium current collector in ionic liquid alkyl carbonate (hybrid) electrolytes. <i>Npj Materials Degradation</i> , 2018, 2, .	2.6	37
80	Na-Ion Solvation and High Transference Number in Superconcentrated Ionic Liquid Electrolytes: A Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2018, 122, 105-114.	1.5	74
81	The anion effect in ternary electrolyte systems using poly(diallyldimethylammonium) and phosphonium-based ionic liquid with high lithium salt concentration. <i>Solid State Ionics</i> , 2018, 327, 83-92.	1.3	27
82	Stable cycling of NaFePO <sub>4</sub> cathodes in high salt concentration ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2018, 406, 70-80.	4.0	28
83	High Zn Concentration Pyrrolidinium-Dicyanamide-Based Ionic Liquid Electrolytes for Zn <sup>2+</sup> /Zn <sup>0</sup> Electrochemistry in a Flow Environment. <i>ACS Applied Energy Materials</i> , 2018, 1, 4580-4590.	2.5	16
84	Elucidating the Impact of Sodium Salt Concentration on the Cathode-Electrolyte Interface of Na-Air Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15276-15286.	1.5	25
85	Water-tolerant lithium metal cycling in high lithium concentration phosphonium-based ionic liquid electrolytes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2276-2283.	2.5	27
86	Ternary lithium-salt organic ionic plastic crystal polymer composite electrolytes for high voltage, all-solid-state batteries. <i>Energy Storage Materials</i> , 2018, 15, 407-414.	9.5	45
87	Improved Li-Ion Transport by DME Chelation in a Novel Ionic Liquid-Based Hybrid Electrolyte for Li-Air Battery Application. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14373-14382.	1.5	33
88	Influence of Electrospun Poly(vinylidene difluoride) Nanofiber Matrix on the Ion Dynamics of a Protic Organic Ionic Plastic Crystal. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14546-14553.	1.5	10
89	(Keynote) Ionic Liquid Electrolytes and Ionogel Composites that Enable High Capacity Anodes for Lithium and Sodium Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
90	(Keynote) Solid State Organic Ionic Plastic Crystals and Composite Materials for Energy Storage. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0

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91	Towards Higher Energy Density Redox-Flow Batteries: Imidazolium Ionic Liquid for Zn Electrochemistry in Flow Environment. <i>ChemElectroChem</i> , 2017, 4, 1051-1058.	1.7	17
92	Small quaternary alkyl phosphonium bis(fluorosulfonyl)imide ionic liquid electrolytes for sodium-ion batteries with P2- and O3-Na <sub>2/3</sub> [Fe <sub>2/3</sub> Mn <sub>1/3</sub> ]O <sub>2</sub> cathode material. <i>Journal of Power Sources</i> , 2017, 349, 45-51.	4.0	40
93	Phosphonium plastic crystal salt alloyed with a sodium salt as a solid-state electrolyte for sodium devices: phase behaviour and electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5770-5780.	5.2	40
94	Extensive Sodium Metal Plating and Stripping in a Highly Concentrated Inorganic-Organic Ionic Liquid Electrolyte through Surface Pretreatment. <i>ChemElectroChem</i> , 2017, 4, 986-991.	1.7	25
95	Organic Ionic Plastic Crystal-Based Composite Electrolyte with Surface Enhanced Ion Transport and Its Use in All-Solid-State Lithium Batteries. <i>Advanced Materials Technologies</i> , 2017, 2, 1700046.	3.0	49
96	Conformational Dynamics in an Organic Ionic Plastic Crystal. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5439-5446.	1.2	38
97	Highly reversible oxygen to superoxide redox reaction in a sodium-containing ionic liquid. <i>Electrochemistry Communications</i> , 2017, 74, 14-18.	2.3	24
98	Extensive Sodium Metal Plating and Stripping in a Highly Concentrated Inorganic-Organic Ionic Liquid Electrolyte through Surface Pretreatment. <i>ChemElectroChem</i> , 2017, 4, 976-976.	1.7	2
99	Solid-State Lithium Conductors for Lithium Metal Batteries Based on Electrospun Nanofiber/Plastic Crystal Composites. <i>ChemSusChem</i> , 2017, 10, 3135-3145.	3.6	58
100	Investigating discharge performance and Mg interphase properties of an Ionic Liquid electrolyte based Mg-air battery. <i>Electrochimica Acta</i> , 2017, 235, 270-279.	2.6	27
101	N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide-electrospun polyvinylidene fluoride composite electrolytes: characterization and lithium cell studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2225-2234.	1.3	61
102	Comparison of the physicochemical and electrochemical behaviour of mixed anion phosphonium based OIPCs electrolytes for sodium batteries. <i>Solid State Ionics</i> , 2017, 312, 44-52.	1.3	25
103	Understanding of the Electrogenerated Bulk Electrolyte Species in Sodium-Containing Ionic Liquid Electrolytes During the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23307-23316.	1.5	17
104	Role of Li Concentration and the SEI Layer in Enabling High Performance Li Metal Electrodes Using a Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21087-21095.	1.5	87
105	Preparation and characterization of gel polymer electrolytes using poly(ionic liquids) and high lithium salt concentration ionic liquids. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23844-23852.	5.2	109
106	Interphase engineering of reactive metal surfaces using ionic liquids and deep eutectic solvents—from corrosion control to next-generation batteries. <i>Npj Materials Degradation</i> , 2017, 1, .	2.6	16
107	Effect of secondary phase on thermal behaviour and solid-state ion conduction in lithium doped N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystal. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24909-24919.	5.2	28
108	High-Capacity Retention of Si Anodes Using a Mixed Lithium/Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid Electrolyte. <i>ACS Energy Letters</i> , 2017, 2, 1804-1809.	8.8	38

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109	Mixed Phase Solid-State Plastic Crystal Electrolytes Based on a Phosphonium Cation for Sodium Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1601272.	10.2	46
110	Stable Deep Doping of Vapor-Phase Polymerized Poly(3,4-ethylenedioxythiophene)/Ionic Liquid Supercapacitors. <i>ChemSusChem</i> , 2016, 9, 2112-2121.	3.6	30
111	In-Situ-Activated N-Doped Mesoporous Carbon from a Protic Salt and Its Performance in Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35243-35252.	4.0	37
112	In Situ MRI of Operating Solid-State Lithium Metal Cells Based on Ionic Plastic Crystal Electrolytes. <i>Chemistry of Materials</i> , 2016, 28, 2844-2851.	3.2	54
113	Combined Nano- and Macrotribology Studies of Titania Lubrication Using the Oil-Ionic Liquid Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5005-5012.	3.2	35
114	A comparative AFM study of the interfacial nanostructure in imidazolium or pyrrolidinium ionic liquid electrolytes for zinc electrochemical systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29337-29347.	1.3	24
115	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	511
116	Electrochemistry of the tris(2,2'-bipyridine) complex of iron(II) in ionic liquids and aprotic molecular solvents. <i>Electrochimica Acta</i> , 2016, 220, 347-353.	2.6	30
117	Protic organic ionic plastic crystals based on a difunctional cation and the triflate anion: a new solid-state proton conductor. <i>Chemical Communications</i> , 2016, 52, 14097-14100.	2.2	17
118	Enhancement of ion dynamics in organic ionic plastic crystal/PVDF composite electrolytes prepared by co-electrospinning. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9873-9880.	5.2	49
119	Novel Na <sup>+</sup> Ion Diffusion Mechanism in Mixed Organic-Inorganic Ionic Liquid Electrolyte Leading to High Na <sup>+</sup> Transference Number and Stable, High Rate Electrochemical Cycling of Sodium Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4276-4286.	1.5	209
120	Addition of low concentrations of an ionic liquid to a base oil reduces friction over multiple length scales: a combined nano- and macrotribology investigation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6541-6547.	1.3	46
121	Film formation in trihexyl(tetradecyl)phosphonium diphenylphosphate ([P6,6,6,14][dpp]) ionic liquid on AA5083 aluminium alloy. <i>Surface and Coatings Technology</i> , 2016, 303, 385-395.	2.2	9
122	Reduction of oxygen in a trialkoxy ammonium-based ionic liquid and the role of water. <i>Electrochimica Acta</i> , 2016, 196, 727-734.	2.6	8
123	Rechargeable Zn/PEDOT Battery with an Imidazolium-Based Ionic Liquid as the Electrolyte. <i>ChemElectroChem</i> , 2015, 2, 2071-2078.	1.7	41
124	Electrochemical and physicochemical properties of small phosphonium cation ionic liquid electrolytes with high lithium salt content. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8706-8713.	1.3	123
125	Physical properties of high Li-ion content N-propyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide based ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4656-4663.	1.3	159
126	Ionic transport through a composite structure of N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystals reinforced with polymer nanofibres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6038-6052.	5.2	47



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127	Electrochemistry of tris(2,2'-bipyridyl) cobalt(II) in ionic liquids and aprotic molecular solvents on glassy carbon and platinum electrodes. <i>Electrochimica Acta</i> , 2015, 180, 419-426.	2.6	24
128	Ionic Liquid Adsorption and Nanotribology at the Silica/Oil Interface: Hundred-Fold Dilution in Oil Lubricates as Effectively as the Pure Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4095-4099.	2.1	48
129	Roles of Additives in the Trihexyl(tetradecyl) Phosphonium Chloride Ionic Liquid Electrolyte for Primary Mg-Air Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, A974-A980.	1.3	17
130	Energy applications of ionic liquids. <i>Energy and Environmental Science</i> , 2014, 7, 232-250.	15.6	1,455
131	Electrochemical etching of AA5083 aluminium alloy in trihexyl(tetradecyl)phosphonium bis(trifluoromethylsulfonyl)amide ionic liquid. <i>Corrosion Science</i> , 2014, 80, 120-127.	3.0	17
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