

# Doug MacFarlane

## List of Publications by Citations

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823  
papers

53,287  
citations

109  
h-index

197  
g-index

871  
ext. papers

59,084  
ext. citations

7.5  
avg, IF

8.01  
L-index

#	Paper	IF	Citations
823	Ionic-liquid materials for the electrochemical challenges of the future. <i>Nature Materials</i> , <b>2009</b> , 8, 621-9	27	3617
822	Energy applications of ionic liquids. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 232-250	35.4	1244
821	Use of ionic liquids for pi-conjugated polymer electrochemical devices. <i>Science</i> , <b>2002</b> , 297, 983-7	33.3	1058
820	Pyrrrolidinium Imides: A New Family of Molten Salts and Conductive Plastic Crystal Phases. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4164-4170	3.4	914
819	Vitrification as an approach to cryopreservation. <i>Cryobiology</i> , <b>1984</b> , 21, 407-26	2.7	830
818	Ionic liquids in electrochemical devices and processes: managing interfacial electrochemistry. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 1165-73	24.3	603
817	Challenges and prospects in the catalysis of electroreduction of nitrogen to ammonia. <i>Nature Catalysis</i> , <b>2019</b> , 2, 290-296	36.5	557
816	On the concept of ionicity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4962-7	3.6	545
815	Lithium-doped plastic crystal electrolytes exhibiting fast ion conduction for secondary batteries. <i>Nature</i> , <b>1999</b> , 402, 792-794	50.4	494
814	Ionic Liquids An Overview. <i>Australian Journal of Chemistry</i> , <b>2004</b> , 57, 113	1.2	478
813	High rates of oxygen reduction over a vapor phase-polymerized PEDOT electrode. <i>Science</i> , <b>2008</b> , 321, 671-4	33.3	454
812	Room-Temperature Molten Salts Based on the Quaternary Ammonium Ion. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 8858-8864	3.4	440
811	A Review of Ionic Liquid Lubricants. <i>Lubricants</i> , <b>2013</b> , 1, 3-21	3.1	433
810	High Lithium Metal Cycling Efficiency in a Room-Temperature Ionic Liquid. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A97		424
809	Low viscosity ionic liquids based on organic salts of the dicyanamide anion. <i>Chemical Communications</i> , <b>2001</b> , 1430-1431	5.8	410
808	Hierarchical Mesoporous SnO Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO Reduction with High Efficiency and Selectivity. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 505-509	16.4	407
807	Ionic liquids based on imidazolium, ammonium and pyrrolidinium salts of the dicyanamide anion. <i>Green Chemistry</i> , <b>2002</b> , 4, 444-448	10	402

806	Ionic liquids for energy, materials, and medicine. <i>Chemical Communications</i> , <b>2014</b> , 50, 9228-50	5.8	396
805	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	391
804	Protein solubilising and stabilising ionic liquids. <i>Chemical Communications</i> , <b>2005</b> , 4804-6	5.8	387
803	Phosphonium-Based Ionic Liquids: An Overview. <i>Australian Journal of Chemistry</i> , <b>2009</b> , 62, 309	1.2	384
802	Porous nitrogen-doped hollow carbon spheres derived from polyaniline for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5352-5357	13	369
801	Electro-synthesis of ammonia from nitrogen at ambient temperature and pressure in ionic liquids. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2516-2520	35.4	367
800	Lewis base ionic liquids. <i>Chemical Communications</i> , <b>2006</b> , 1905-17	5.8	361
799	Extraction of lignin from lignocellulose at atmospheric pressure using alkylbenzenesulfonate ionic liquid. <i>Green Chemistry</i> , <b>2009</b> , 11, 339	10	355
798	High conductivity molten salts based on the imide ion. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 1271-1278	6.7	340
797	Ionic Liquids Progress on the Fundamental Issues. <i>Australian Journal of Chemistry</i> , <b>2007</b> , 60, 3	1.2	339
796	Electrochemical performance of polyaniline nanofibres and polyaniline/multi-walled carbon nanotube composite as an electrode material for aqueous redox supercapacitors. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 1062-1068	8.9	326
795	Single-Boron Catalysts for Nitrogen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2884-2888	16.4	320
794	Solubility and stability of cytochrome c in hydrated ionic liquids: effect of oxo acid residues and kosmotropicity. <i>Biomacromolecules</i> , <b>2007</b> , 8, 2080-6	6.9	301
793	Promising prospects for 2D d <sub>2</sub> B <sub>4</sub> M <sub>3</sub> C <sub>2</sub> transition metal carbides (MXenes) in N <sub>2</sub> capture and conversion into ammonia. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2545-2549	35.4	298
792	Characterization of the Lithium Surface in N-Methyl-N-alkylpyrrolidinium Bis(trifluoromethanesulfonyl)amide Room-Temperature Ionic Liquid Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A595	3.9	289
791	Plastic Crystal Electrolyte Materials: New Perspectives on Solid State Ionics. <i>Advanced Materials</i> , <b>2001</b> , 13, 957-966	24	282
790	Thermal Degradation of Ionic Liquids at Elevated Temperatures. <i>Australian Journal of Chemistry</i> , <b>2004</b> , 57, 145	1.2	278
789	Crystalline vs. ionic liquid salt forms of active pharmaceutical ingredients: a position paper. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 521-6	4.5	259

788	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1074	35.4	251
787	Use of Ionic Liquids as Electrolytes in Electromechanical Actuator Systems Based on Inherently Conducting Polymers. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 2392-2398	9.6	247
786	Cyto-toxicity and biocompatibility of a family of choline phosphate ionic liquids designed for pharmaceutical applications. <i>Green Chemistry</i> , <b>2010</b> , 12, 507	10	246
785	A Roadmap to the Ammonia Economy. <i>Joule</i> , <b>2020</b> , 4, 1186-1205	27.8	242
784	Bioactives from fruit processing wastes: Green approaches to valuable chemicals. <i>Food Chemistry</i> , <b>2017</b> , 225, 10-22	8.5	239
783	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 695	35.4	236
782	Understanding of Electrochemical Mechanisms for CO Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). <i>ACS Nano</i> , <b>2017</b> , 11, 10825-10833	16.7	236
781	Electrochemistry of room temperature protic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 6923-36	3.4	233
780	Nanostructured photoelectrochemical solar cell for nitrogen reduction using plasmon-enhanced black silicon. <i>Nature Communications</i> , <b>2016</b> , 7, 11335	17.4	224
779	The zwitterion effect in high-conductivity polyelectrolyte materials. <i>Nature Materials</i> , <b>2004</b> , 3, 29-32	27	215
778	Liquids intermediate between "molecular" and "ionic" liquids: liquid ion pairs?. <i>Chemical Communications</i> , <b>2007</b> , 3817-9	5.8	212
777	Investigation of ionic liquids as electrolytes for carbon nanotube electrodes. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 22-27	5.1	206
776	Ionicity and proton transfer in protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10341-7	3.6	200
775	Thermal degradation of cyano containing ionic liquids. <i>Green Chemistry</i> , <b>2006</b> , 8, 691	10	200
774	Organic ionic plastic crystals: recent advances. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2056		198
773	Towards a better Sn: Efficient electrocatalytic reduction of CO <sub>2</sub> to formate by Sn/SnS <sub>2</sub> derived from SnS <sub>2</sub> nanosheets. <i>Nano Energy</i> , <b>2017</b> , 31, 270-277	17.1	195
772	Long-term structural and chemical stability of DNA in hydrated ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1631-3	16.4	188
771	High Capacity, Safety, and Enhanced Cyclability of Lithium Metal Battery Using a V <sub>2</sub> O <sub>5</sub> Nanomaterial Cathode and Room Temperature Ionic Liquid Electrolyte. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7044-7051	9.6	184

770	Ambient temperature plastic crystal electrolyte for efficient, all-solid-state dye-sensitized solar cell. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 13590-1	16.4	183
769	High Seebeck coefficient redox ionic liquid electrolytes for thermal energy harvesting. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2639	35.4	179
768	MoS <sub>2</sub> Polymorphic Engineering Enhances Selectivity in the Electrochemical Reduction of Nitrogen to Ammonia. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 430-435	20.1	179
767	Electrochemical synthesis of polypyrrole in ionic liquids. <i>Polymer</i> , <b>2004</b> , 45, 1447-1453	3.9	178
766	Fast Charge/Discharge of Li Metal Batteries Using an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1629-A1637	3.9	173
765	Direct electro-deposition of graphene from aqueous suspensions. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 9187-93	3.6	172
764	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> , <b>2016</b> , 120, 4276-4286	3.8	171
763	The Zwitterion Effect in Ionic Liquids: Towards Practical Rechargeable Lithium-Metal Batteries. <i>Advanced Materials</i> , <b>2005</b> , 17, 2497-2501	24	170
762	Ion diffusion in molten salt mixtures. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 1279-1284	6.7	168
761	Electrochemistry at Negative Potentials in Bis(trifluoromethanesulfonyl)amide Ionic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2006</b> , 220, 1483-1498	3.1	167
760	Sugars exert a major influence on the vitrification properties of ethylene glycol-based solutions and have low toxicity to embryos and oocytes. <i>Cryobiology</i> , <b>1999</b> , 38, 119-30	2.7	166
759	Rapid, clean, and mild O-acetylation of alcohols and carbohydrates in an ionic liquid. <i>Chemical Communications</i> , <b>2002</b> , 714-5	5.8	163
758	Hierarchical porous plasmonic metamaterials for reproducible ultrasensitive surface-enhanced Raman spectroscopy. <i>Advanced Materials</i> , <b>2015</b> , 27, 1090-6	24	162
757	Conversion of dinitrogen to ammonia on Ru atoms supported on boron sheets: a DFT study. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4771-4776	13	158
756	Electrodeposited PEDOT-on-plastic cathodes for dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2010</b> , 46, 5367-9	5.8	153
755	Ion-pair binding energies of ionic liquids: can DFT compete with ab initio-based methods?. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 7064-72	2.8	153
754	Unexpected improvement in stability and utility of cytochrome c by solution in biocompatible ionic liquids. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 1209-13	4.9	153
753	Rational Electrode/Electrolyte Design for Efficient Ammonia Electrosynthesis under Ambient Conditions. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1219-1224	20.1	146

752	Ionic liquids and reactions at the electrochemical interface. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 1659-69	3.6	145
751	The effect of anion fluorination in ionic liquids—physical properties of a range of bis(methanesulfonyl)amide salts. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 1504-1510	3.6	142
750	On the components of the dielectric constants of ionic liquids: ionic polarization?. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2452-8	3.6	141
749	Thermo-electrochemical cells for waste heat harvesting - progress and perspectives. <i>Chemical Communications</i> , <b>2017</b> , 53, 6288-6302	5.8	136
748	Seebeck coefficients in ionic liquids—prospects for thermo-electrochemical cells. <i>Chemical Communications</i> , <b>2011</b> , 47, 6260-2	5.8	135
747	Transport properties in a family of dialkylimidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1758-1765	3.6	134
746	N-methyl-N-alkylpyrrolidinium tetrafluoroborate salts: ionic solvents and solid electrolytes. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 1753-1757	6.7	134
745	Feasibility of N Binding and Reduction to Ammonia on Fe-Deposited MoS 2D Sheets: A DFT Study. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 8275-8279	4.8	133
744	Carbon Quantum Dots/Cu <sub>2</sub> O Heterostructures for Solar-Light-Driven Conversion of CO <sub>2</sub> to Methanol. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401077	21.8	133
743	Structure and transport properties of a plastic crystal ion conductor: diethyl(methyl)(isobutyl)phosphonium hexafluorophosphate. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9688-97	16.4	133
742	Solid state actuators based on polypyrrole and polymer-in-ionic liquid electrolytes. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 2355-2359	6.7	132
741	Ionic liquids as antiwear additives in base oils: influence of structure on miscibility and antiwear performance for steel on aluminum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11544-53	9.5	131
740	Polyethylenimine promoted electrocatalytic reduction of CO <sub>2</sub> to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 216-223	35.4	130
739	Lithium electrochemistry and cycling behaviour of ionic liquids using cyano based anions. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 979	35.4	130
738	Renewable fuels from concentrated solar power: towards practical artificial photosynthesis. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2791-2796	35.4	129
737	Physical properties of high Li-ion content N-propyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide based ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 4656-63	3.6	127
736	Unlocking the Electrocatalytic Activity of Antimony for CO Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14718-14722	16.4	126
735	Dissolution of feather keratin in ionic liquids. <i>Green Chemistry</i> , <b>2013</b> , 15, 525	10	123

734	Fast ion conduction in molecular plastic crystals. <i>Solid State Ionics</i> , <b>2003</b> , 161, 105-112	3.3	123
733	High current density, efficient cycling of Zn <sup>2+</sup> in 1-ethyl-3-methylimidazolium dicyanamide ionic liquid: The effect of Zn <sup>2+</sup> salt and water concentration. <i>Electrochemistry Communications</i> , <b>2012</b> , 18, 119-122	5.1	122
732	N-Methyl-N-alkylpyrrolidinium Hexafluorophosphate Salts: Novel Molten Salts and Plastic Crystal Phases. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 558-564	9.6	121
731	The effect of nano-particle TiO <sub>2</sub> fillers on structure and transport in polymer electrolytes. <i>Solid State Ionics</i> , <b>2002</b> , 147, 203-211	3.3	120
730	The influence of the monomer and the ionic liquid on the electrochemical preparation of polythiophene. <i>Polymer</i> , <b>2005</b> , 46, 2047-2058	3.9	120
729	Dissolution and regeneration of wool keratin in ionic liquids. <i>Green Chemistry</i> , <b>2014</b> , 16, 2857-2864	10	118
728	Co <sub>3</sub> O <sub>4</sub> nanoneedle arrays as a multifunctional super-reservoir electrode for long cycle life LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 250-257	13	116
727	Novel halogen-free chelated orthoborate-phosphonium ionic liquids: synthesis and tribophysical properties. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12865-73	3.6	116
726	Protic ionic liquids based on the dimeric and oligomeric anions: [(AcO) <sub>x</sub> H <sub>(x-1)</sub> ] <sup>-</sup> . <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 2972-8	3.6	115
725	Low overpotential water oxidation to hydrogen peroxide on a MnO <sub>x</sub> catalyst. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9496	35.4	114
724	Nature of hydrogen bonding in charged hydrogen-bonded complexes and imidazolium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 14659-67	3.4	114
723	Hierarchical Mesoporous SnO <sub>2</sub> Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO <sub>2</sub> Reduction with High Efficiency and Selectivity. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 520-524	3.6	113
722	Physical trends and structural features in organic salts of the thiocyanate anion. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3475-3480		112
721	Lithium doped N-methyl-N-ethylpyrrolidiniumbis(trifluoromethanesulfonyl)amide fast-ion conducting plastic crystals. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2259-2265		112
720	Ionic liquid electrolytes as a platform for rechargeable metal-air batteries: a perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18658-74	3.6	111
719	Protic pharmaceutical ionic liquids and solids: aspects of protonics. <i>Faraday Discussions</i> , <b>2012</b> , 154, 335-52; discussion 439-64, 465-71	3.6	110
718	Acid/organic base swollen polymer membranes. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 1703-1708	6.7	110
717	Recent advances in the nanoengineering of electrocatalysts for CO reduction. <i>Nanoscale</i> , <b>2018</b> , 10, 6235-6260	6.2	109



7 <sup>16</sup>	Electrodeposited MnO <sub>x</sub> Films from Ionic Liquid for Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1013-1021	21.8	109
7 <sup>15</sup>	Structural studies of ambient temperature plastic crystal ion conductors. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 8257-8267	1.8	109
7 <sup>14</sup>	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Low-Grade Thermal Energy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605652	24	108
7 <sup>13</sup>	Identification and elimination of false positives in electrochemical nitrogen reduction studies. <i>Nature Communications</i> , <b>2020</b> , 11, 5546	17.4	108
7 <sup>12</sup>	Ionic liquid mixtures-variations in physical properties and their origins in molecular structure. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 8251-8	3.4	106
7 <sup>11</sup>	MnO <sub>2</sub> /MnCo <sub>2</sub> O <sub>4</sub> /Ni heterostructure with quadruple hierarchy: a bifunctional electrode architecture for overall urea oxidation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7825-7832	13	105
7 <sup>10</sup>	Lithium ion mobility in poly(vinyl alcohol) based polymer electrolytes as determined by <sup>7</sup> Li NMR spectroscopy. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 1465-1469	6.7	105
7 <sup>09</sup>	Crystallization in fluoride glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1984</b> , 64, 351-362	3.9	105
7 <sup>08</sup>	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO <sub>2</sub> Reduction to CO. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 666-672	20.1	104
7 <sup>07</sup>	Exploring an Anti-Crystal Engineering Approach to the Preparation of Pharmaceutically Active Ionic Liquids. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1137-1145	3.5	104
7 <sup>06</sup>	Properties of sodium-based ionic liquid electrolytes for sodium secondary battery applications. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 766-771	6.7	103
7 <sup>05</sup>	Liquid forms of pharmaceutical co-crystals: exploring the boundaries of salt formation. <i>Chemical Communications</i> , <b>2011</b> , 47, 2267-9	5.8	103
7 <sup>04</sup>	Toward protic ionic liquid and organic ionic plastic crystal electrolytes for fuel cells. <i>Electrochimica Acta</i> , <b>2012</b> , 84, 213-222	6.7	102
7 <sup>03</sup>	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , <b>2019</b> , 10, 865	17.4	100
7 <sup>02</sup>	Electrochemical and physicochemical properties of small phosphonium cation ionic liquid electrolytes with high lithium salt content. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8706-13	3.6	100
7 <sup>01</sup>	Transport properties in ionic liquids and ionic liquid mixtures: the challenges of NMR pulsed field gradient diffusion measurements. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 9018-24	3.4	100
7 <sup>00</sup>	Synergistic Corrosion Inhibition of Mild Steel in Aqueous Chloride Solutions by an Imidazolium Carboxylate Salt. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1746-1755	8.3	99
6 <sup>99</sup>	Structural analysis of low melting organic salts: perspectives on ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9144-53	3.6	99



698	Conducting polymer composite materials for hydrogen generation. <i>Advanced Materials</i> , <b>2010</b> , 22, 1727-304	34	99
697	Ionic liquids and ultrasound in combination: synergies and challenges. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 8132-49	58.5	97
696	Methanesulfonate and p-toluenesulfonate salts of the N-methyl-N-alkylpyrrolidinium and quaternary ammonium cations: novel low cost ionic liquids. <i>Green Chemistry</i> , <b>2002</b> , 4, 223-229	10	97
695	Microscopic Interactions in Nanocomposite Electrolytes. <i>Macromolecules</i> , <b>2001</b> , 34, 4549-4555	5.5	96
694	Vitrification properties of solutions of ethylene glycol in saline containing PVP, Ficoll, or dextran. <i>Cryobiology</i> , <b>1997</b> , 35, 219-29	2.7	95
693	Understanding the effect of the C2 proton in promoting low viscosities and high conductivities in imidazolium-based ionic liquids: part I. Weakly coordinating anions. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 14688-97	3.4	94
692	Synthesis and properties of ambient temperature molten salts based on the quaternary ammonium ion. <i>Ionics</i> , <b>1997</b> , 3, 356-362	2.7	93
691	Long lifetime photoluminescence in N, S co-doped carbon quantum dots from an ionic liquid and their applications in ultrasensitive detection of pesticides. <i>Carbon</i> , <b>2016</b> , 104, 33-39	10.4	93
690	Energy-Efficient Nitrogen Reduction to Ammonia at Low Overpotential in Aqueous Electrolyte under Ambient Conditions. <i>ChemSusChem</i> , <b>2018</b> , 11, 3416-3422	8.3	92
689	An organic ionic plastic crystal electrolyte for rate capability and stability of ambient temperature lithium batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3352-3361	35.4	90
688	Ionic liquids in biomass processing. <i>Topics in Current Chemistry</i> , <b>2010</b> , 290, 311-39		89
687	Ionic liquid electrolyte porphyrin dye sensitised solar cells. <i>Chemical Communications</i> , <b>2010</b> , 46, 3146-8	5.8	88
686	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin/Ionic Liquid Polymer Electrolyte. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 831-836	20.1	87
685	A DFT study of planar vs. corrugated graphene-like carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) and its role in the catalytic performance of CO <sub>2</sub> conversion. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 18507-14	3.6	87
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110	Bubbles in heavy metal fluoride glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1987</b> , 95-96, 625-632	3.9	5
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108	High-capacity and high-rate Ni-Fe batteries based on mesostructured quaternary carbon/Fe/FeO/FeO hybrid material. <i>IScience</i> , <b>2021</b> , 24, 102547	6.1	5
107	Anion amphiprotic ionic liquids as protic electrolyte matrices allowing sodium metal plating. <i>Chemical Communications</i> , <b>2019</b> , 55, 12523-12526	5.8	5
106	Structural stability of insulin aspart in aqueous cholinium aminoate ionic liquids based on molecular dynamics simulation studies. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 322, 114501	6	5
105	Why use Ionic Liquids for Electrodeposition?	1-13	5

104	Future Directions and Challenges	369-377		5
103	Electrodeposition of Alloys	125-146		5
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88	Stable Acidic Water Oxidation with a Cobalt-Iron-Lead Oxide Catalyst Operating via a Cobalt-Selective Self-Healing Mechanism.	<i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15821-15826	16.4	4
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