Doug MacFarlane

List of Publications by Year in Descending Order

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	Enhanced structural stability of insulin aspart in cholinium aminoate ionic liquids.. *International Journal of Biological Macromolecules*, **2022**, 208, 544-552	7.9	0
822	Reassessment of the catalytic activity of bismuth for aqueous nitrogen electroreduction. *Nature Catalysis*, **2022**, 5, 382-384	36.5	5
821	Intrinsic Catalytic Activity for the Alkaline Hydrogen Evolution of Layer-Expanded MoS2 Functionalized with Nanoscale Ni and Co Sulfides. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 7117-7133	8.3	1
820	Mixed metal□antimony oxide nanocomposites: low pH water oxidation electrocatalysts with outstanding durability at ambient and elevated temperatures. *Journal of Materials Chemistry A*, **2021**, 9, 27468-27484	13	6
819	Electrochemically Induced Generation of Extraneous Nitrite and Ammonia in Organic Electrolyte Solutions During Nitrogen Reduction Experiments. *ChemElectroChem*, **2021**, 8, 1596-1604	4.3	6
818	Enhancing thermoelectric properties of single-walled carbon nanotubes using halide compounds at room temperature and above. *Scientific Reports*, **2021**, 11, 8649	4.9	6
817	Understanding the Factors Determining the Faradaic Efficiency and Rate of the Lithium Redox-Mediated N2 Reduction to Ammonia. *Journal of Physical Chemistry C*, **2021**, 125, 11402-11410	3.8	7
816	Simple route to lithium dendrite prevention for long cycle-life lithium metal batteries. *Applied Materials Today*, **2021**, 23, 101062	6.6	4
815	High-capacity and high-rate Ni-Fe batteries based on mesostructured quaternary carbon/Fe/FeO/FeO hybrid material. *IScience*, **2021**, 24, 102547	6.1	5
814	Stable Acidic Water Oxidation with a Cobalt-Iron-Lead Oxide Catalyst Operating via a Cobalt-Selective Self-Healing Mechanism. *Angewandte Chemie - International Edition*, **2021**, 60, 15821-15826	16.4	4
813	Stabilisation of the superoxide anion in bis(fluorosulfonyl)imide (FSI) ionic liquid by small chain length phosphonium cations: Voltammetric, DFT modelling and spectroscopic perspectives. *Electrochemistry Communications*, **2021**, 127, 107029	5.1	0
812	Stable Acidic Water Oxidation with a Cobalt□Iron□Lead Oxide Catalyst Operating via a Cobalt-Selective Self-Healing Mechanism. *Angewandte Chemie*, **2021**, 133, 15955-15960	3.6	1
811	Guanidinium Organic Salts as Phase-Change Materials for Renewable Energy Storage. *ChemSusChem*, **2021**, 14, 2757-2762	8.3	4
810	Nitrogen reduction to ammonia at high efficiency and rates based on a phosphonium proton shuttle. *Science*, **2021**, 372, 1187-1191	33.3	80
809	Structural stability of insulin aspart in aqueous cholinium aminoate ionic liquids based on molecular dynamics simulation studies. *Journal of Molecular Liquids*, **2021**, 322, 114501	6	5
808	Unravelling the Role of Speciation in Glyme:Ionic Liquid Hybrid Electrolytes for Na□O2 Batteries. *Batteries and Supercaps*, **2021**, 4, 513-521	5.6	1
807	Approach to Increase the Utilization of Active Material in a High Sulfur-Loaded Cathode for High Areal Capacity Room-Temperature Sodium□Sulfur Batteries. *ACS Applied Energy Materials*, **2021**, 4, 384-393	6.1	4

806	Lithium Borate Ester Salts for Electrolyte Application in Next-Generation High Voltage Lithium Batteries. *Advanced Energy Materials*, **2021**, 11, 2101422	21.8	6
805	Copper-Catalyzed Electrosynthesis of Nitrite and Nitrate from Ammonia: Tuning the Selectivity via an Interplay Between Homogeneous and Heterogeneous Catalysis. *ChemSusChem*, **2021**, 14, 4793-4801	8.3	3
804	A solution scan of societal options to reduce transmission and spread of respiratory viruses: SARS-CoV-2 as a case study. *Journal of Biosafety and Biosecurity*, **2021**, 3, 84-90	1.4	1
803	Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. *Journal of Physical Chemistry B*, **2021**, 125, 11005-11016	3.4	1
802	Sub-zero and room-temperature sodium–sulfur battery cell operations: A rational current collector, catalyst and sulphur-host design and study. *Energy Storage Materials*, **2021**, 42, 608-617	19.4	6
801	Identification and elimination of false positives in electrochemical nitrogen reduction studies. *Nature Communications*, **2020**, 11, 5546	17.4	108
800	An investigation of commercial carbon air cathode structure in ionic liquid based sodium oxygen batteries. *Scientific Reports*, **2020**, 10, 7123	4.9	10
799	Ultrathin Lithium Aluminate Nanoflake-Inlaid Sulfur as a Cathode Material for Lithium–Sulfur Batteries with High Areal Capacity. *ACS Applied Energy Materials*, **2020**, 3, 5637-5645	6.1	8
798	A Roadmap to the Ammonia Economy. *Joule*, **2020**, 4, 1186-1205	27.8	242
797	Free-Radical Catalysis and Enhancement of the Redox Kinetics for Room-Temperature Sodium–Sulfur Batteries. *ACS Energy Letters*, **2020**, 5, 2112-2121	20.1	27
796	Enhanced Energy Storage Performance of 3D Hybrid Metal Sulfides via Synergistic Engineering of Architecture and Composition. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11491-11500	8.3	4
795	Refining Universal Procedures for Ammonium Quantification via Rapid 1H NMR Analysis for Dinitrogen Reduction Studies. *ACS Energy Letters*, **2020**, 5, 736-741	20.1	49
794	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. *Sustainable Energy and Fuels*, **2020**, 4, 2322-2332	5.8	7
793	Thin films of poly(vinylidene fluoride-co-hexafluoropropylene)-ionic liquid mixtures as amperometric gas sensing materials for oxygen and ammonia. *Analyst, The*, **2020**, 145, 1915-1924	5	9
792	Advances in the development of rare earth metal and carboxylate compounds as corrosion inhibitors for steel. *Corrosion Engineering Science and Technology*, **2020**, 55, 311-321	1.7	8
791	A novel proton conducting ionogel electrolyte based on poly(ionic liquids) and protic ionic liquid. *Electrochimica Acta*, **2020**, 346, 136224	6.7	11
790	Is Molybdenum Disulfide Modified with Molybdenum Metal Catalytically Active for the Nitrogen Reduction Reaction?. *Journal of the Electrochemical Society*, **2020**, 167, 146507	3.9	7
789	Insights from two decades of the Student Conference on Conservation Science. *Biological Conservation*, **2020**, 243, 108478	6.2	2

788	Electroreduction of Nitrates, Nitrites, and Gaseous Nitrogen Oxides: A Potential Source of Ammonia in Dinitrogen Reduction Studies. *ACS Energy Letters*, **2020**, 5, 2095-2097	20.1	84
787	Pyrazolium Phase-Change Materials for Solar-Thermal Energy Storage. *ChemSusChem*, **2020**, 13, 159-164	8.3	12
786	Towards high rate Li metal anodes: enhanced performance at high current density in a superconcentrated ionic liquid. *Journal of Materials Chemistry A*, **2020**, 8, 3574-3579	13	18
785	Role of Hydrogen Bonding in Phase Change Materials. *Crystal Growth and Design*, **2020**, 20, 1285-1291	3.5	10
784	Facile preparation of 2-arylbenzoselenazoles from three components reactions: 2-Chloronitrobenzene, Se, and arylacetic acids. *Tetrahedron Letters*, **2020**, 61, 151393	2	2
783	Liquefied Sunshine: Transforming Renewables into Fertilizers and Energy Carriers with Electromaterials. *Advanced Materials*, **2020**, 32, e1904804	24	24
782	Exploring the electrochemical properties of mixed ligand Fe(II) complexes as redox couples. *Electrochimica Acta*, **2020**, 362, 137109	6.7	0
781	A Self-Assembled CO Reduction Electrocatalyst: Posy-Bouquet-Shaped Gold-Polyaniline Core-Shell Nanocomposite. *ChemSusChem*, **2020**, 13, 5023-5030	8.3	4
780	Solid (cyanomethyl)trimethylammonium salts for electrochemically stable electrolytes for lithium metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 14721-14735	13	2
779	Influence of ion structure on thermal runaway behaviour of aprotic and protic ionic liquids. *Chemical Communications*, **2020**, 56, 11819-11822	5.8	1
778	Lewis Acid□Base Interactions between Polysulfides and Boehmite Enables Stable Room-Temperature Sodium□Sulfur Batteries. *Advanced Functional Materials*, **2020**, 30, 2005669	15.6	20
777	Enhanced ion transport in an ether aided super concentrated ionic liquid electrolyte for long-life practical lithium metal battery applications. *Journal of Materials Chemistry A*, **2020**, 8, 18826-18839	13	20
776	Hierarchical architectures of mesoporous Pd on highly ordered TiO2 nanotube arrays for electrochemical CO2 reduction. *Journal of Materials Chemistry A*, **2020**, 8, 8041-8048	13	8
775	Structure Effects on the Ionicity of Protic Ionic Liquids. *ChemPhysChem*, **2020**, 21, 1444-1454	3.2	8
774	Ein Hybrid-Anion f□r ionische Fl□ssigkeiten und Batterieelektrolytanwendungen: Halb Triflamid, halb Carbonat. *Angewandte Chemie*, **2019**, 131, 4435-4439	3.6	
773	A Hybrid Anion for Ionic Liquid and Battery Electrolyte Applications: Half Triflamide, Half Carbonate. *Angewandte Chemie - International Edition*, **2019**, 58, 4390-4394	16.4	10
772	Poly(Ionic Liquid)s-in-Salt Electrolytes with Co-coordination-Assisted Lithium-Ion Transport for Safe Batteries. *Joule*, **2019**, 3, 2687-2702	27.8	49
771	The Effect of Solvent on the Seebeck Coefficient and Thermocell Performance of Cobalt Bipyridyl and Iron Ferri/Ferrocyanide Redox Couples. *Australian Journal of Chemistry*, **2019**, 72, 709	1.2	7

770	Energy efficient electrochemical reduction of CO2 to CO using a three-dimensional porphyrin/graphene hydrogel. *Energy and Environmental Science*, **2019**, 12, 747-755	35.4	76
769	Novel and versatile room temperature ionic liquids for energy storage. *Energy and Environmental Science*, **2019**, 12, 566-571	35.4	56
768	Supported Ionic Liquid Gel Membrane Electrolytes for a Safe and Flexible Sodium Metal Battery. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3722-3726	8.3	34
767	Conversion of dinitrogen to ammonia on Ru atoms supported on boron sheets: a DFT study. *Journal of Materials Chemistry A*, **2019**, 7, 4771-4776	13	158
766	Mg Cathode Materials and Electrolytes for Rechargeable Mg Batteries: A Review. *Batteries and Supercaps*, **2019**, 2, 115-127	5.6	61
765	Hydrogels Containing the Ferri/Ferrocyanide Redox Couple and Ionic Liquids for Thermocells. *Australian Journal of Chemistry*, **2019**, 72, 112	1.2	12
764	Kenneth R. Seddon □A Rock Star of Ionic Liquids. *Australian Journal of Chemistry*, **2019**, 72, 1	1.2	
763	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO2 Reduction to CO. *ACS Energy Letters*, **2019**, 4, 666-672	20.1	104
762	Single-Boron Catalysts for Nitrogen Reduction Reaction. *Journal of the American Chemical Society*, **2019**, 141, 2884-2888	16.4	320
761	Self-assembled structure and dynamics of imidazolium-based protic salts in water solution. *Physical Chemistry Chemical Physics*, **2019**, 21, 2691-2696	3.6	5
760	Intrinsically stable in situ generated electrocatalyst for long-term oxidation of acidic water at up to 80 □C. *Nature Catalysis*, **2019**, 2, 457-465	36.5	62
759	Preparation of chiral graphene oxides by covalent attachment of chiral cysteines for voltammetric recognition of tartrates. *Mikrochimica Acta*, **2019**, 186, 298	5.8	6
758	Organic Ionic Plastic Crystals as Solid-State Electrolytes. *Trends in Chemistry*, **2019**, 1, 126-140	14.8	48
757	Challenges and prospects in the catalysis of electroreduction of nitrogen to ammonia. *Nature Catalysis*, **2019**, 2, 290-296	36.5	557
756	Ionic Liquids **2019**, 1-29		6
755	Three-Dimensionally Reinforced Freestanding Cathode for High-Energy Room-Temperature Sodium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 14101-14109	9.5	38
754	Sustainable, Dendrite Free Lithium-Metal Electrode Cycling Achieved with Polymer Composite Electrolytes Based on a Poly(Ionic Liquid) Host. *Batteries and Supercaps*, **2019**, 2, 229-239	5.6	26
753	Critical Assessment of the Electrocatalytic Activity of Vanadium and Niobium Nitrides toward Dinitrogen Reduction to Ammonia. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6839-6850	8.3	68

752	Hydrogen Evolution in [NiFe] Hydrogenases: A Case of Heterolytic Approach between Proton and Hydride. *Inorganic Chemistry*, **2019**, 58, 2979-2986	5.1	5
751	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. *Nature Communications*, **2019**, 10, 865	17.4	100
750	Building a tool to overcome barriers in research-implementation spaces: The Conservation Evidence database. *Biological Conservation*, **2019**, 238, 108199	6.2	44
749	High Nitrogen Gas Solubility and Physicochemical Properties of [C4mpyr][eFAP]Fluorinated Solvent Mixtures. *Journal of Physical Chemistry C*, **2019**, 123, 21376-21385	3.8	14
748	Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu O-Cu Catalyst. *ChemSusChem*, **2019**, 12, 4471-4479	8.3	6
747	Controlling the Three-Phase Boundary in Na-Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. *ChemSusChem*, **2019**, 12, 4054-4063	8.3	7
746	Poly(ionic liquid)s/Electrospun Nanofiber Composite Polymer Electrolytes for High Energy Density and Safe Li Metal Batteries. *ACS Applied Energy Materials*, **2019**, 2, 6237-6245	6.1	36
745	High Coulombic Efficiency Na-O Batteries Enabled by a Bilayer Ionogel/Ionic Liquid. *Journal of Physical Chemistry Letters*, **2019**, 10, 7050-7055	6.4	6
744	Tuning Sodium Interfacial Chemistry with Mixed-Anion Ionic Liquid Electrolytes. *ACS Applied Materials & Interfaces*, **2019**, 11, 43093-43106	9.5	22
743	Anion amphiprotic ionic liquids as protic electrolyte matrices allowing sodium metal plating. *Chemical Communications*, **2019**, 55, 12523-12526	5.8	5
742	Ionic Liquids Further Progress on the Fundamental Issues. *Australian Journal of Chemistry*, **2019**, 72, 3	1.2	45
741	MoS2 Polymorphic Engineering Enhances Selectivity in the Electrochemical Reduction of Nitrogen to Ammonia. *ACS Energy Letters*, **2019**, 4, 430-435	20.1	179
740	Extreme properties of double networked ionogel electrolytes for flexible and durable energy storage devices. *Energy Storage Materials*, **2019**, 19, 197-205	19.4	30
739	Protic Ionic Liquids Based on Oligomeric Anions [(HSO4)(H2SO4)x] (x = 0, 1, or 2) for a Clean ?-Caprolactam Synthesis. *Australian Journal of Chemistry*, **2019**, 72, 130	1.2	3
738	Phosphomolybdic Acid-Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO to Formate. *ChemSusChem*, **2019**, 12, 1091-1100	8.3	22
737	Ionic liquid/tetraglyme hybrid Mg[TFSI]2 electrolytes for rechargeable Mg batteries. *Green Energy and Environment*, **2019**, 4, 146-153	5.7	22
736	Amino acid based poly(ionic liquid) materials for CO2 capture: Effect of anion. *Journal of Molecular Liquids*, **2019**, 276, 644-652	6	28
735	High-energy density room temperature sodium-sulfur battery enabled by sodium polysulfide catholyte and carbon cloth current collector decorated with MnO2 nanoarrays. *Energy Storage Materials*, **2019**, 20, 196-202	19.4	59

734	Application of a water-soluble cobalt redox couple in free-standing cellulose films for thermal energy harvesting. *Electrochimica Acta*, **2019**, 297, 669-675	6.7	15
733	Electro-oxidation of ammonia on electrochemically roughened platinum electrodes. *Electrochimica Acta*, **2019**, 297, 778-783	6.7	22
732	Recent advances in the nanoengineering of electrocatalysts for CO reduction. *Nanoscale*, **2018**, 10, 6235-6260	7.7	109
731	In Situ Synthesis of Core–Shell-Ni3Fe(OH)9/Ni3Fe Hybrid Nanostructures as Highly Active and Stable Bifunctional Catalysts for Water Electrolysis. *ACS Applied Energy Materials*, **2018**, 1, 986-992	6.1	10
730	Process design and techno-economic analysis of an integrated mango processing waste biorefinery. *Industrial Crops and Products*, **2018**, 116, 24-34	5.9	59
729	Rational Electrode–Electrolyte Design for Efficient Ammonia Electrosynthesis under Ambient Conditions. *ACS Energy Letters*, **2018**, 3, 1219-1224	20.1	146
728	The effect of cation chemistry on physicochemical behaviour of superconcentrated NaFSI based ionic liquid electrolytes and the implications for Na battery performance. *Electrochimica Acta*, **2018**, 268, 94-100	6.7	20
727	Hydrogen bonding effect between active site and protein environment on catalysis performance in H-producing [NiFe] hydrogenases. *Physical Chemistry Chemical Physics*, **2018**, 20, 6735-6743	3.6	12
726	High CO absorption by diamino protic ionic liquids using azolide anions. *Chemical Communications*, **2018**, 54, 2106-2109	5.8	35
725	Spectroscopic Characterization of the SEI Layer Formed on Lithium Metal Electrodes in Phosphonium Bis(fluorosulfonyl)imide Ionic Liquid Electrolytes. *ACS Applied Materials & Interfaces*, **2018**, 10, 6719-6729	9.5	52
724	Supported Ionic Liquid Gel Membrane Electrolytes for Flexible Supercapacitors. *Advanced Energy Materials*, **2018**, 8, 1702702	21.8	65
723	Stability enhancing ionic liquid hybrid electrolyte for NVP@C cathode based sodium batteries. *Sustainable Energy and Fuels*, **2018**, 2, 566-576	5.8	26
722	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. *Advanced Energy Materials*, **2018**, 8, 1702794	21.8	34
721	The influence of anion chemistry on the ionic conductivity and molecular dynamics in protic organic ionic plastic crystals. *Physical Chemistry Chemical Physics*, **2018**, 20, 4579-4586	3.6	7
720	An ionic liquid based sodium metal-hybrid supercapacitor-battery. *Sustainable Energy and Fuels*, **2018**, 2, 763-771	5.8	15
719	Ionic Liquids and Organic Ionic Plastic Crystals: Advanced Electrolytes for Safer High Performance Sodium Energy Storage Technologies. *Advanced Energy Materials*, **2018**, 8, 1703491	21.8	76
718	Passivation behaviour of aluminium current collector in ionic liquid alkyl carbonate (hybrid) electrolytes. *Npj Materials Degradation*, **2018**, 2,	5.7	25
717	Ionic liquid electrolytes supporting high energy density in sodium-ion batteries based on sodium vanadium phosphate composites. *Chemical Communications*, **2018**, 54, 3500-3503	5.8	23

716	Polyoxometalate-Promoted Electrocatalytic CO Reduction at Nanostructured Silver in Dimethylformamide. *ACS Applied Materials & Interfaces*, **2018**, 10, 12690-12697	9.5	48
715	In the lab: New ethical and supply chain protocols for battery and solar alternative energy laboratory research policy and practice. *Journal of Cleaner Production*, **2018**, 187, 485-495	10.3	10
714	The electrochemistry and performance of cobalt-based redox couples for thermoelectrochemical cells. *Electrochimica Acta*, **2018**, 269, 714-723	6.7	28
713	Base-rich diamino protic ionic liquid mixtures for enhanced CO2 capture. *Separation and Purification Technology*, **2018**, 196, 27-31	8.3	26
712	Studies to optimize the process of biofuel production from castor stalk. *Pure and Applied Chemistry*, **2018**, 90, 271-284	2.1	
711	A hydrocolloid based biorefinery approach to the valorisation of mango peel waste. *Food Hydrocolloids*, **2018**, 77, 142-151	10.6	44
710	Effect of salt-based adjuvant on partition behaviour of protein in aqueous two-phase systems composed of polypropylene glycol and cholinium glycinate. *Separation and Purification Technology*, **2018**, 196, 281-286	8.3	18
709	Flexible and non-volatile redox active quasi-solid state ionic liquid based electrolytes for thermal energy harvesting. *Sustainable Energy and Fuels*, **2018**, 2, 1806-1812	5.8	14
708	A Porphyrin/Graphene Framework: A Highly Efficient and Robust Electrocatalyst for Carbon Dioxide Reduction. *Advanced Energy Materials*, **2018**, 8, 1801280	21.8	57
707	The oxygen reduction reaction on [NiFe] hydrogenases. *Physical Chemistry Chemical Physics*, **2018**, 20, 23528-23534	3.6	4
706	Energy-Efficient Nitrogen Reduction to Ammonia at Low Overpotential in Aqueous Electrolyte under Ambient Conditions. *ChemSusChem*, **2018**, 11, 3416-3422	8.3	92
705	Improved Li-Ion Transport by DME Chelation in a Novel Ionic Liquid-Based Hybrid Electrolyte for Li‑S Battery Application. *Journal of Physical Chemistry C*, **2018**, 122, 14373-14382	3.8	20
704	Quasi-solid-State Electrolytes for Low-Grade Thermal Energy Harvesting using a Cobalt Redox Couple. *ChemSusChem*, **2018**, 11, 2788-2796	8.3	27
703	Influence of Electrospun Poly(vinylidene difluoride) Nanofiber Matrix on the Ion Dynamics of a Protic Organic Ionic Plastic Crystal. *Journal of Physical Chemistry C*, **2018**, 122, 14546-14553	3.8	6
702	Environmentally Benign and Recyclable Aqueous Two-Phase System Composed of Distillable CO2-Based Alkyl Carbamate Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 10344-10354	8.3	12
701	Structure and dynamics of ionic liquids: general discussion. *Faraday Discussions*, **2018**, 206, 291-337	3.6	6
700	Electrochemistry: general discussion. *Faraday Discussions*, **2018**, 206, 405-426	3.6	8
699	Ionic liquids at interfaces: general discussion. *Faraday Discussions*, **2018**, 206, 549-586	3.6	

698	Transformation of cellulosic saccharides into alkyl glucosides catalyzed by bifunctional ionic liquids. *Chemical Communications*, **2018**, 54, 11969-11972	5.8	1
697	Fluoride Ionic Liquids in Salts of Ethylmethylimidazolium and Substituted Cyclopropenium Cation Families. *Frontiers in Chemistry*, **2018**, 6, 603	5	3
696	Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. *Nature Communications*, **2018**, 9, 5070	17.4	28
695	Synthesis and Physicochemical Properties of Fluorinated Ionic Liquids with High Nitrogen Gas Solubility. *Journal of Physical Chemistry C*, **2018**, 122, 24550-24558	3.8	34
694	Hierarchically Ordered Nanochannel Array Membrane Reactor with Three-Dimensional Electrocatalytic Interfaces for Electrohydrogenation of CO2 to Alcohol. *ACS Energy Letters*, **2018**, 3, 2649-2655	29.1	10
693	Energy-Efficient Nitrogen Reduction to Ammonia at Low Overpotential in Aqueous Electrolyte under Ambient Conditions. *ChemSusChem*, **2018**, 11, 3356-3356	8.3	
692	The anion effect in ternary electrolyte systems using poly(diallyldimethylammonium) and phosphonium-based ionic liquid with high lithium salt concentration. *Solid State Ionics*, **2018**, 327, 83-92	3.3	19
691	Theoretical Evaluation of Possible 2D Boron Monolayer in N2 Electrochemical Conversion into Ammonia. *Journal of Physical Chemistry C*, **2018**, 122, 25268-25273	3.8	70
690	Stable cycling of NaFePO4 cathodes in high salt concentration ionic liquid electrolytes. *Journal of Power Sources*, **2018**, 406, 70-80	8.9	19
689	Progress Towards Direct Hydrogen Peroxide Fuel Cells (DHPFCs) as an Energy Storage Concept. *Australian Journal of Chemistry*, **2018**, 71, 781	1.2	16
688	Role of N-Propyl-N-Methyl Pyrrolidinium bis(trifluoromethanesulfonyl)imide as an Electrolyte Additive in Sodium Battery Electrochemistry. *Energy Technology*, **2018**, 6, 2232-2237	3.5	6
687	High Zn Concentration Pyrrolidinium-Dicyanamide-Based Ionic Liquid Electrolytes for Zn2+/Zn0 Electrochemistry in a Flow Environment. *ACS Applied Energy Materials*, **2018**, 1, 4580-4590	6.1	10
686	Choline ionic liquid enhances the stability of Herceptin® (trastuzumab). *Chemical Communications*, **2018**, 54, 10622-10625	5.8	15
685	Dual-MnCo2O4/Ni electrode with three-level hierarchy for high-performance electrochemical energy storage. *Electrochimica Acta*, **2018**, 280, 55-61	6.7	9
684	Elucidating the Impact of Sodium Salt Concentration on the Cathode–Electrolyte Interface of Na–Air Batteries. *Journal of Physical Chemistry C*, **2018**, 122, 15276-15286	3.8	18
683	Photoelectrochemical Characterisation on Surface-Inverted Black Silicon Photocathodes by Using Platinum/Palladium Co-catalysts for Solar-to-Hydrogen Conversion. *ChemPlusChem*, **2018**, 83, 651-657	2.8	6
682	Engineering Surface Amine Modifiers of Ultrasmall Gold Nanoparticles Supported on Reduced Graphene Oxide for Improved Electrochemical CO2 Reduction. *Advanced Energy Materials*, **2018**, 8, 1801400	21.8	76
681	Structure and Ion Dynamics in Imidazolium-Based Protic Organic Ionic Plastic Crystals. *Journal of Physical Chemistry Letters*, **2018**, 9, 3904-3909	6.4	14

680	Electrocatalytic CO Reduction to Formate at Low Overpotentials on Electrodeposited Pd Films: Stabilized Performance by Suppression of CO Formation. *ChemSusChem*, **2017**, 10, 1509-1516	8.3	33
679	Towards Higher Energy Density Redox-Flow Batteries: Imidazolium Ionic Liquid for Zn Electrochemistry in Flow Environment. *ChemElectroChem*, **2017**, 4, 1051-1058	4.3	11
678	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Low-Grade Thermal Energy. *Advanced Materials*, **2017**, 29, 1605652	24	108
677	Ionic Liquid–Solid Interfaces **2017**, 321-343		6
676	Why Use Ionic Liquids for Electrodeposition? **2017**, 1-15		2
675	Impedance Spectroscopy on Electrode | Ionic Liquid Interfaces **2017**, 373-399		
674	Plating Protocols **2017**, 469-482		
673	Future Directions and Challenges **2017**, 483-490		
672	Physical Properties of Ionic Liquids for Electrochemical Applications **2017**, 55-94		3
671	Electrodeposition of Metals **2017**, 95-155		1
670	Conducting Polymers **2017**, 211-252		1
669	Nanostructured Materials **2017**, 253-320		
668	Small quaternary alkyl phosphonium bis(fluorosulfonyl)imide ionic liquid electrolytes for sodium-ion batteries with P2- and O3-Na 2/3 [Fe 2/3 Mn 1/3]O 2 cathode material. *Journal of Power Sources*, **2017**, 349, 45-51	8.9	30
667	Technical Aspects **2017**, 401-468		1
666	Synthesis of Ionic Liquids **2017**, 17-53		2
665	Electrodeposition of Alloys **2017**, 157-186		2
664	Electrodeposition of Semiconductors from Ionic Liquids **2017**, 187-210		1
663	Plasma Electrochemistry with Ionic Liquids **2017**, 345-371		

662	MnO2/MnCo2O4/Ni heterostructure with quadruple hierarchy: a bifunctional electrode architecture for overall urea oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 7825-7832	13	105
661	Phosphonium plastic crystal salt alloyed with a sodium salt as a solid-state electrolyte for sodium devices: phase behaviour and electrochemical performance. *Journal of Materials Chemistry A*, **2017**, 5, 5770-5780	13	29
660	Extensive Sodium Metal Plating and Stripping in a Highly Concentrated Inorganic–Organic Ionic Liquid Electrolyte through Surface Pretreatment. *ChemElectroChem*, **2017**, 4, 986-991	4.3	20
659	Electrochemical reduction of CO 2 on core-shell Cu/Au nanostructure arrays for syngas production. *Electrochimica Acta*, **2017**, 239, 84-89	6.7	44
658	Surfactant-Free Synthesis of Graphene-Supported PdCu Nanocrystals with High Alloying Degree as Highly Active Catalyst for Formic Acid Electrooxidation. *Advanced Materials Interfaces*, **2017**, 4, 1700227	4.6	11
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