

# Maria Forsyth

## 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.

659  
papers

32,467  
citations

83  
h-index

150  
g-index

701  
ext. papers

35,928  
ext. citations

6.7  
avg, IF

7.4  
L-index

#	Paper	IF	Citations
659	Proton transport of porous triazole-grafted polysulfone membranes for high temperature polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 8492-8501	6.7	2
658	Factors controlling the physical properties of an organic ionic plastic crystal. <i>Materials Today Physics</i> , <b>2022</b> , 22, 100603	8	0
657	Single-ion polymer/LLZO hybrid electrolytes with high lithium conductivity. <i>Materials Advances</i> , <b>2022</b> , 3, 1139-1151	3.3	1
656	Efficiency of a Novel Multifunctional Corrosion Inhibitor Against Biofilms Developed on Carbon Steel.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 803559	5.8	2
655	Highly Selective and Tunable CO <sub>2</sub> /N <sub>2</sub> Separation Performance in Ammonium-Based Organic Ionic Plastic Crystal Composite Membranes with Self-Healing Properties. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 1487-1496	4.3	0
654	Mixed Ionic-Electronic Conductors Based on Polymer Composites. <i>Engineering Materials</i> , <b>2022</b> , 493-532	0.4	0
653	Ion Transport in Li-Doped Triethyl(methyl)phosphonium Tetrafluoroborate (Li-[P1222][BF <sub>4</sub> ]) Impregnated with PVDF Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 3839-3852	3.8	0
652	Engineering Advanced Environmentally Friendly Corrosion Inhibitors, Their Mechanisms, and Biological Effects in Live Zebrafish Embryos. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 2960-2970	8.3	3
651	Toward High-Voltage Solid-State Li-Metal Batteries with Double-Layer Polymer Electrolytes. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1473-1480	20.1	7
650	Stable and Efficient Lithium Metal Anode Cycling through Understanding the Effects of Electrolyte Composition and Electrode Preconditioning. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 165-177	9.6	3
649	Investigation of Under-Deposit Microbial Corrosion and its Inhibition Using a Multi-Electrode Array System.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 803610	5.8	0
648	Single-Ion Conducting Polymer Nanoparticles as Functional Fillers for Solid Electrolytes in Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54354-54362	9.5	6
647	Zwitterionic materials with disorder and plasticity and their application as non-volatile solid or liquid electrolytes. <i>Nature Materials</i> , <b>2021</b> ,	27	5
646	Development and Progression of Polymer Electrolytes for Batteries: Influence of Structure and Chemistry. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
645	Modelling cetrimonium micelles as 4-OH cinnamate carriers targeting a hydrated iron oxide surface. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 610, 785-785	9.3	1
644	Exploring the influence of the cation type and polymer support in bis(fluorosulfonyl)imide-based plastic crystal composite membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26330-26344	13	1
643	Emerging iongel materials towards applications in energy and bioelectronics. <i>Materials Horizons</i> , <b>2021</b> , 8, 3239-3265	14.4	6

642	New Insights into Decoupled Cation and Anion Transport and Dynamic Heterogeneity in a Diethyl(methyl)(isobutyl)phosphonium Hexafluorophosphate Organic Ionic Plastic Crystal. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 9853-9858	6.4	2
641	Design of Polymeric Corrosion Inhibitors Based on Ionic Coumarate Groups. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1739-1746	4.3	2
640	Electrolytes for Sodium Batteries <b>2021</b> , 205-241		0
639	Composite electrolytes based on electrospun PVDF and ionic plastic crystal matrices for Na-metal battery applications. <i>JPhys Materials</i> , <b>2021</b> , 4, 034003	4.2	2
638	Phase behavior and electrochemical properties of solid lithium electrolytes based on N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide and PVdF composites. <i>Solid State Ionics</i> , <b>2021</b> , 363, 115588	3.3	2
637	Solid-state rigid-rod polymer composite electrolytes with nanocrystalline lithium ion pathways. <i>Nature Materials</i> , <b>2021</b> , 20, 1255-1263	27	31
636	Understanding the Role of Separator and Electrolyte Compatibility on Lithium Metal Anode Performance Using Ionic Liquid-Based Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6310-6323	6.1	3
635	Highly conductive ionogel electrolytes based on N-ethyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide FSI and NaFSI mixtures and their applications in sodium batteries. <i>JPhys Materials</i> , <b>2021</b> , 4, 044005	4.2	2
634	Tuning the Formation and Structure of the Silicon Electrode/Ionic Liquid Electrolyte Interphase in Superconcentrated Ionic Liquids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28281-28294	9.5	5
633	Short Chain Imidazolium Ionic Liquids: Synthesis and Oil Miscibility in Various Base Oil by use of Surfactant as High Performance Friction and Antiwear Lubricant Additive. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	1
632	Unraveling Ion Dynamics and Interactions in an Ionic Liquid Electrolyte with a Protonated Anion for Lithium Batteries. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 14818-14826	3.8	0
631	Tuning Proton Exchange and Transport in Protic Ionic Liquid Solution through Anion Chemistry. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5552-5557	6.4	1
630	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> , <b>2021</b> , 127, 107029	5.1	0
629	Anion-Derived Solid-Electrolyte Interphase Enables Long Life Na-Ion Batteries Using Superconcentrated Ionic Liquid Electrolytes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2481-2490	20.1	6
628	Investigation of Unusual Conductivity Behavior and Ion Dynamics in Hexamethylguanidinium Bis(fluorosulfonyl)imide-Based Electrolytes for Sodium Batteries. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 12518-12530	3.8	2
627	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> , <b>2021</b> , 4, 6399-6407	6.1	5
626	An Al-Cu Multielectrode Model for Studying Corrosion Inhibition with Praseodymium Mercaptoacetate at Intermetallic Particles in AA2024. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 071501	3.9	0
625	Unravelling the Role of Speciation in Glyme:Ionic Liquid Hybrid Electrolytes for Na $\text{O}_2$ Batteries. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 513-521	5.6	1

624	Anion-cation interactions in novel ionic liquids based on an asymmetric sulfonimide anion observed by NMR and MD simulations. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 327, 114879	6	4
623	Electrochemical and Surface Characterization Study on the Corrosion Inhibition of Mild Steel 1030 by the Cationic Surfactant Cetrimonium Trans-4-hydroxy-cinnamate. <i>ACS Omega</i> , <b>2021</b> , 6, 1941-1952	3.9	4
622	Approach to Increase the Utilization of Active Material in a High Sulfur-Loaded Cathode for High Areal Capacity Room-Temperature Sodium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 384-393	6.1	4
621	SEI Formation on Sodium Metal Electrodes in Superconcentrated Ionic Liquid Electrolytes and the Effect of Additive Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5706-5720	9.5	8
620	Fluorine-free ionic liquid electrolytes for sustainable neodymium recovery using an electrochemical approach. <i>Green Chemistry</i> , <b>2021</b> , 23, 3410-3419	10	7
619	Flame retardant polyphosphoester copolymers as solid polymer electrolyte for lithium batteries. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 3441-3450	4.9	5
618	Functional Binders Based on Polymeric Ionic Liquids for Sodium Oxygen Batteries Using Ionic Liquid Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 434-444	6.1	1
617	A novel approach to improve the oil miscibility and incorporate multifunctionality in ionic liquids as lubricant additives. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 3429-3440	3.6	4
616	Tuning Electronic and Ionic Conductivities in Composite Materials for Electrochemical Devices. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1777-1784	4.3	2
615	Evaluation of a novel, multi-functional inhibitor compound for prevention of biofilm formation on carbon steel in marine environments. <i>Scientific Reports</i> , <b>2021</b> , 11, 15697	4.9	7
614	Lithium Borate Ester Salts for Electrolyte Application in Next-Generation High Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101422	21.8	6
613	Study of phosphonium based ionic liquid/dispersant additive interactions using spectroscopic technique for lubricant applications. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 338, 116665	6	4
612	Properties of hybrid sol-gel coatings with the incorporation of lanthanum 4-hydroxy cinnamate as corrosion inhibitor on carbon steel with different surface finishes. <i>Applied Surface Science</i> , <b>2021</b> , 561, 149881	6.7	9
611	Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 11005-11016	3.4	1
610	Sub-zero and room-temperature sodium sulfur battery cell operations: A rational current collector, catalyst and sulphur-host design and study. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 608-617	19.4	6
609	Anion effects on the properties of OIPC/PVDF composites. <i>Materials Advances</i> , <b>2021</b> , 2, 1683-1694	3.3	3
608	Predicting gas selectivity in organic ionic plastic crystals by free energy calculations.. <i>RSC Advances</i> , <b>2021</b> , 11, 19623-19629	3.7	1
607	Application of super-concentrated phosphonium based ionic liquid electrolyte for anode-free lithium metal batteries. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 4141-4152	5.8	3

606	Decoupled ion mobility in nano-confined ionic plastic crystal. <i>Materials Advances</i> , <b>2020</b> , 1, 3398-3405	3.3	3
605	Cation Effect in the Corrosion Inhibition Properties of Coumarate Ionic Liquids and Acrylic UV-Coatings. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
604	Engineering high-energy-density sodium battery anodes for improved cycling with superconcentrated ionic-liquid electrolytes. <i>Nature Materials</i> , <b>2020</b> , 19, 1096-1101	27	70
603	Evolution of structural dimensions in mesoporous template precursor from hexagonal lyotropic liquid crystals. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 075101	1.8	2
602	An investigation of commercial carbon air cathode structure in ionic liquid based sodium oxygen batteries. <i>Scientific Reports</i> , <b>2020</b> , 10, 7123	4.9	10
601	Free-Radical Catalysis and Enhancement of the Redox Kinetics for Room-Temperature Sodium/Sulfur Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2112-2121	20.1	27
600	Multifunctional Inhibitor Mixtures for Abating Corrosion on HY80 Steel under Marine Environments. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 021503	3.9	2
599	Polymerized Ionic Liquid Block Copolymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 070525	3.9	7
598	Effect of lanthanum 4-hydroxy cinnamate on the polymerisation, condensation and thermal stability of hybrid sol-gel formulations. <i>Journal of Sol-Gel Science and Technology</i> , <b>2020</b> , 96, 91-107	2.3	4
597	A safe Li/Se battery in an ionic liquid-based electrolyte operating at 25 °C by using a N,S,O tri-doped mesoporous carbon host material. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2322-2332	5.8	7
596	Stable High-Temperature Cycling of Na Metal Batteries on NaV(PO) and NaFePO Cathodes in NaFSI-Rich Organic Ionic Plastic Crystal Electrolytes. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2092-2100	6.4	11
595	Highly Homogeneous Sodium Superoxide Growth in NaO <sub>2</sub> Batteries Enabled by a Hybrid Electrolyte. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 903-909	20.1	8
594	Unprecedented Improvement of Single Li-Ion Conductive Solid Polymer Electrolyte Through Salt Additive. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000455	15.6	32
593	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> , <b>2020</b> , 8, 5350-5362	13	15
592	Influence of the Cyclic versus Linear Carbonate Segments in the Properties and Performance of CO <sub>2</sub> -Sourced Polymer Electrolytes for Lithium Batteries. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 922-934	4.3	16
591	Toward High-Energy-Density Lithium Metal Batteries: Opportunities and Challenges for Solid Organic Electrolytes. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905219	24	81
590	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> , <b>2020</b> , 5, 2931-2938	3.9	2
589	Advances in the development of rare earth metal and carboxylate compounds as corrosion inhibitors for steel. <i>Corrosion Engineering Science and Technology</i> , <b>2020</b> , 55, 311-321	1.7	8

588	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000093	21.8	107
587	Synthesis and Characteristics of Pyrrolidinium-Based Organic Ionic Plastic Crystals with Various Sulfonamide Anions. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 884-891	5.6	6
586	Weakly Coordinating Fluorine-Free Polysalt for Single Lithium-Ion Conductive Solid Polymer Electrolytes. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 738-746	5.6	5
585	A novel proton conducting ionogel electrolyte based on poly(ionic liquids) and protic ionic liquid. <i>Electrochimica Acta</i> , <b>2020</b> , 346, 136224	6.7	11
584	Water as a catalyst for ion transport across the electrical double layer in ionic liquids. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	3
583	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> , <b>2020</b> , 167, 120520	3.9	14
582	Electrochemical Formation in Super-Concentrated Phosphonium Based Ionic Liquid Electrolyte Using Symmetric Li-Metal Coin Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 120526	3.9	8
581	Metal-free coumarate based ionic liquids and poly(ionic liquid)s as corrosion inhibitors. <i>Materials Advances</i> , <b>2020</b> , 1, 584-589	3.3	4
580	Nanofiber-reinforced polymer electrolytes toward room temperature solid-state lithium batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227424	8.9	18
579	Towards high rate Li metal anodes: enhanced performance at high current density in a superconcentrated ionic liquid. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3574-3579	13	18
578	Ion Vacancies and Transport in 1-Methylimidazolium Triflate Organic Ionic Plastic Crystal. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 510-515	6.4	8
577	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 542-546	3.6	12
576	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 534-538	16.4	76
575	Ion interactions and dynamics in pseudohalide based ionic liquid electrolytes containing sodium solutes. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 303, 112597	6	1
574	Solid (cyanomethyl)trimethylammonium salts for electrochemically stable electrolytes for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14721-14735	13	2
573	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> , <b>2020</b> , 24, 2479-2485	2.6	6
572	Strongly Correlated Ion Dynamics in Plastic Ionic Crystals and Polymerized Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 17889-17896	3.8	10
571	Electrochemistry of Neodymium in Phosphonium Ionic Liquids: The Influence of Cation, Water Content, and Mixed Anions. <i>Australian Journal of Chemistry</i> , <b>2020</b> , 73, 1080	1.2	5

570	Mixed Ionic-Electronic Conductors Based on PEDOT:PolyDADMA and Organic Ionic Plastic Crystals. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5
569	Proton transport in crystalline, porous covalent organic frameworks: a NMR study. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20939-20945	13	2
568	Correlating Electrochemical Behavior and Speciation in Neodymium Ionic Liquid Electrolyte Mixtures in the Presence of Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14047-14057	8.3	9
567	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> , <b>2020</b> , 8, 18826-18839	13	20
566	Corrosion Inhibition of Mild Steel by Cetrimonium -4-Hydroxy Cinnamate: Entrapment and Delivery of the Anion Inhibitor through Speciation and Micellar Formation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9886-9892	6.4	8
565	Single-Ion Conducting Poly(Ethylene Oxide Carbonate) as Solid Polymer Electrolyte for Lithium Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 68-75	5.6	25
564	Organic Ionic Plastic Crystal-Based Composite Membranes for Light Gas Separation: The Impact of Varying Ion Type and Casting Method. <i>ChemSusChem</i> , <b>2020</b> , 13, 5740-5748	8.3	3
563	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17084-17091	3.6	14
562	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16928-16935	16.4	77
561	Toward Practical Li Metal Batteries: Importance of Separator Compatibility Using Ionic Liquid Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6655-6663	6.1	20
560	Poly(Ionic Liquid)s-in-Salt Electrolytes with Co-coordination-Assisted Lithium-Ion Transport for Safe Batteries. <i>Joule</i> , <b>2019</b> , 3, 2687-2702	27.8	49
559	Leaching Behavior and Corrosion Inhibition of a Rare Earth Carboxylate Incorporated Epoxy Coating System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36154-36168	9.5	12
558	UV-Cross-Linked Ionogels for All-Solid-State Rechargeable Sodium Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6960-6966	6.1	16
557	Polymeric ionic liquids for lithium-based rechargeable batteries. <i>Molecular Systems Design and Engineering</i> , <b>2019</b> , 4, 294-309	4.6	74
556	Supported Ionic Liquid Gel Membrane Electrolytes for a Safe and Flexible Sodium Metal Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3722-3726	8.3	34
555	Self-assembled structure and dynamics of imidazolium-based protic salts in water solution. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 2691-2696	3.6	5
554	The effect of ageing on cathodic protection shielding by fusion bonded epoxy coatings. <i>Progress in Organic Coatings</i> , <b>2019</b> , 134, 58-65	4.8	7
553	Organic Ionic Plastic Crystals as Solid-State Electrolytes. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 126-140	14.8	48

552	Poly(ionic liquid) iongel membranes for all solid-state rechargeable sodium battery. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 435-441	9.6	28
551	Sustainable, Dendrite Free Lithium-Metal Electrode Cycling Achieved with Polymer Composite Electrolytes Based on a Poly(Ionic Liquid) Host. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 229-239	5.6	26
550	Water as an Effective Additive for High-Energy-Density Na Metal Batteries? Studies in a Superconcentrated Ionic Liquid Electrolyte. <i>ChemSusChem</i> , <b>2019</b> , 12, 1700-1711	8.3	22
549	Innovative Electrolytes Based on Ionic Liquids and Polymers for Next-Generation Solid-State Batteries. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 686-694	24.3	168
548	The Periodic Table. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 5837-5848	2.8	1
547	Controlling the Three-Phase Boundary in Na-Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. <i>ChemSusChem</i> , <b>2019</b> , 12, 4054-4063	8.3	7
546	Poly(ionic liquid)s/Electrospun Nanofiber Composite Polymer Electrolytes for High Energy Density and Safe Li Metal Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6237-6245	6.1	36
545	Monovalent Cation-Phenolic Crystals with pH-Driven Reversible Crystal Transformation. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12281-12287	4.8	5
544	The JPC Periodic Table. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 17063-17074	3.8	1
543	The JPC Periodic Table. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4051-4062	6.4	1
542	Suppressed Mobility of Negative Charges in Polymer Electrolytes with an Ether-Functionalized Anion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12070-12075	16.4	32
541	Suppressed Mobility of Negative Charges in Polymer Electrolytes with an Ether-Functionalized Anion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12198-12203	3.6	11
540	High Coulombic Efficiency Na-O Batteries Enabled by a Bilayer Ionogel/Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7050-7055	6.4	6
539	Tuning Sodium Interfacial Chemistry with Mixed-Anion Ionic Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43093-43106	9.5	22
538	Biodegradable Conducting Polymer Coating to Mitigate Early Stage Degradation of Magnesium in Simulated Biological Fluid: An Electrochemical Mechanistic Study. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4893-4901	4.3	0
537	Overscreening and crowding in electrochemical ionic liquid systems. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	8
536	UV-cross-linked poly(ethylene oxide carbonate) as free standing solid polymer electrolyte for lithium batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 302, 414-421	6.7	34
535	Computational Investigation of Mixed Anion Effect on Lithium Coordination and Transport in Salt Concentrated Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7414-7420	6.4	17



534	Artificial SEI Transplantation: A Pathway to Enabling Lithium Metal Cycling in Water-Containing Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8912-8918	6.1	3
533	Enabling High Lithium Conductivity in Polymerized Ionic Liquid Block Copolymer Electrolytes. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 132-138	5.6	14
532	JPCL: A Dynamic Journal with a Global Reach. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 113-114	6.4	
531	Extreme properties of double networked ionogel electrolytes for flexible and durable energy storage devices. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 197-205	19.4	30
530	Enhanced Lithium-Ion Conductivity of Polymer Electrolytes by Selective Introduction of Hydrogen into the Anion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7829-7834	16.4	29
529	Water-Facilitated Electrodeposition of Neodymium in a Phosphonium-Based Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 289-294	6.4	25
528	Enhanced Lithium-Ion Conductivity of Polymer Electrolytes by Selective Introduction of Hydrogen into the Anion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7911-7916	3.6	13
527	Investigating Intermolecular Interactions in a DME-Based Hybrid Ionic Liquid Electrolyte by HOESY NMR. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 4	5	3
526	Ionic liquid/tetraglyme hybrid Mg[TFSI] <sub>2</sub> electrolytes for rechargeable Mg batteries. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 146-153	5.7	22
525	Time-Temperature Scaling and Dielectric Modeling of Conductivity Spectra of Single-Ion Conducting Liquid Dendrimer Electrolytes. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 207-215	3.4	2
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516	Cation effect on small phosphonium based ionic liquid electrolytes with high concentrations of lithium salt. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 193813	3.9	12
515	Stability enhancing ionic liquid hybrid electrolyte for NVP@C cathode based sodium batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 566-576	5.8	26
514	An Interaction between Praseodymium 4-Hydroxycinnamate with AS1020 and X65 Steel Microstructures in Carbon Dioxide Environment. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C50-C59	3.9	15
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512	An ionic liquid based sodium metal-hybrid supercapacitor-battery. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 763-771	5.8	15
511	Molecular dynamics study of ammonium based co-cation plasticizer effect on lithium ion dynamics in ionomer electrolytes. <i>Solid State Ionics</i> , <b>2018</b> , 316, 47-52	3.3	7
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