

Maria Forsyth

List of Publications by Citations

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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	Energy applications of ionic liquids. <i>Energy and Environmental Science</i> , 2014 , 7, 232-250	35.4	1244
658	Use of ionic liquids for pi-conjugated polymer electrochemical devices. <i>Science</i> , 2002 , 297, 983-7	33.3	1058
657	Pyrrolidinium Imides: A New Family of Molten Salts and Conductive Plastic Crystal Phases. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4164-4170	3.4	914
656	Ionic liquids in electrochemical devices and processes: managing interfacial electrochemistry. <i>Accounts of Chemical Research</i> , 2007 , 40, 1165-73	24.3	603
655	On the concept of ionicity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4962-7	3.6	545
654	Lithium-doped plastic crystal electrolytes exhibiting fast ion conduction for secondary batteries. <i>Nature</i> , 1999 , 402, 792-794	50.4	494
653	High rates of oxygen reduction over a vapor phase-polymerized PEDOT electrode. <i>Science</i> , 2008 , 321, 671-4	33.3	454
652	Room-Temperature Molten Salts Based on the Quaternary Ammonium Ion. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 8858-8864	3.4	440
651	A Review of Ionic Liquid Lubricants. <i>Lubricants</i> , 2013 , 1, 3-21	3.1	433
650	Low viscosity ionic liquids based on organic salts of the dicyanamide anion. <i>Chemical Communications</i> , 2001 , 1430-1431	5.8	410
649	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	391
648	Protein solubilising and stabilising ionic liquids. <i>Chemical Communications</i> , 2005 , 4804-6	5.8	387
647	Lewis base ionic liquids. <i>Chemical Communications</i> , 2006 , 1905-17	5.8	361
646	High conductivity molten salts based on the imide ion. <i>Electrochimica Acta</i> , 2000 , 45, 1271-1278	6.7	340
645	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> , 2007 , 171, 1062-1068	8.9	326
644	Solubility and stability of cytochrome c in hydrated ionic liquids: effect of oxo acid residues and kosmotropicity. <i>Biomacromolecules</i> , 2007 , 8, 2080-6	6.9	301
643	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> , 2006 , 153, A595	3.9	289

642	Plastic Crystal Electrolyte Materials: New Perspectives on Solid State Ionics. <i>Advanced Materials</i> , 2001 , 13, 957-966	24	282
641	Diffusion layer parameters influencing optimal fuel cell performance. <i>Journal of Power Sources</i> , 2000 , 86, 250-254	8.9	248
640	Use of Ionic Liquids as Electrolytes in Electromechanical Actuator Systems Based on Inherently Conducting Polymers. <i>Chemistry of Materials</i> , 2003 , 15, 2392-2398	9.6	247
639	Oxygen Reduction Reaction Activity of La-Based Perovskite Oxides in Alkaline Medium: A Thin-Film Rotating Ring-Disk Electrode Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5827-5834	3.8	228
638	The zwitterion effect in high-conductivity polyelectrolyte materials. <i>Nature Materials</i> , 2004 , 3, 29-32	27	215
637	Liquids intermediate between "molecular" and "ionic" liquids: liquid ion pairs?. <i>Chemical Communications</i> , 2007 , 3817-9	5.8	212
636	Organic ionic plastic crystals: recent advances. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2056		198
635	High Capacity, Safety, and Enhanced Cyclability of Lithium Metal Battery Using a V2O5 Nanomaterial Cathode and Room Temperature Ionic Liquid Electrolyte. <i>Chemistry of Materials</i> , 2008 , 20, 7044-7051	9.6	184
634	Ambient temperature plastic crystal electrolyte for efficient, all-solid-state dye-sensitized solar cell. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13590-1	16.4	183
633	Electrochemical synthesis of polypyrrole in ionic liquids. <i>Polymer</i> , 2004 , 45, 1447-1453	3.9	178
632	Fast Charge/Discharge of Li Metal Batteries Using an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1629-A1637	3.9	173
631	Direct electro-deposition of graphene from aqueous suspensions. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9187-93	3.6	172
630	Novel Na ⁺ Ion Diffusion Mechanism in Mixed Organic-Inorganic Ionic Liquid Electrolyte Leading to High Na ⁺ Transference Number and Stable, High Rate Electrochemical Cycling of Sodium Cells.. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4276-4286	3.8	171
629	The Zwitterion Effect in Ionic Liquids: Towards Practical Rechargeable Lithium-Metal Batteries. <i>Advanced Materials</i> , 2005 , 17, 2497-2501	24	170
628	Innovative Electrolytes Based on Ionic Liquids and Polymers for Next-Generation Solid-State Batteries. <i>Accounts of Chemical Research</i> , 2019 , 52, 686-694	24.3	168
627	Ion diffusion in molten salt mixtures. <i>Electrochimica Acta</i> , 2000 , 45, 1279-1284	6.7	168
626	Electrochemistry at Negative Potentials in Bis(trifluoromethanesulfonyl)amide Ionic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006 , 220, 1483-1498	3.1	167
625	Platinum electrodeposition for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2001 , 46, 1657-1663	6.7	164

624	Unexpected improvement in stability and utility of cytochrome c by solution in biocompatible ionic liquids. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 1209-13	4.9	153
623	Ionic liquids and reactions at the electrochemical interface. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1659-69	3.6	145
622	Ordering and stability in conducting polypyrrole. <i>Synthetic Metals</i> , 1998 , 94, 215-219	3.6	142
621	On the components of the dielectric constants of ionic liquids: ionic polarization?. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2452-8	3.6	141
620	Corrosion of magnesium alloy ZE41 The role of microstructural features. <i>Corrosion Science</i> , 2009 , 51, 387-394	6.8	140
619	Transport properties in a family of dialkylimidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1758-1765	3.6	134
618	N-methyl-N-alkylpyrrolidinium tetrafluoroborate salts: ionic solvents and solid electrolytes. <i>Electrochimica Acta</i> , 2001 , 46, 1753-1757	6.7	134
617	Structure and transport properties of a plastic crystal ion conductor: diethyl(methyl)(isobutyl)phosphonium hexafluorophosphate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9688-97	16.4	133
616	Solid state actuators based on polypyrrole and polymer-in-ionic liquid electrolytes. <i>Electrochimica Acta</i> , 2003 , 48, 2355-2359	6.7	132
615	Ionic liquids as antiwear additives in base oils: influence of structure on miscibility and antiwear performance for steel on aluminum. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11544-53	9.5	131
614	Lithium electrochemistry and cycling behaviour of ionic liquids using cyano based anions. <i>Energy and Environmental Science</i> , 2013 , 6, 979	35.4	130
613	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, 4656-63	3.6	127
612	Fast ion conduction in molecular plastic crystals. <i>Solid State Ionics</i> , 2003 , 161, 105-112	3.3	123
611	High current density, efficient cycling of Zn ²⁺ in 1-ethyl-3-methylimidazolium dicyanamide ionic liquid: The effect of Zn ²⁺ salt and water concentration. <i>Electrochemistry Communications</i> , 2012 , 18, 119-122	5.1	122
610	N-Methyl-N-alkylpyrrolidinium Hexafluorophosphate Salts: Novel Molten Salts and Plastic Crystal Phases. <i>Chemistry of Materials</i> , 2001 , 13, 558-564	9.6	121
609	The effect of nano-particle TiO ₂ fillers on structure and transport in polymer electrolytes. <i>Solid State Ionics</i> , 2002 , 147, 203-211	3.3	120
608	The influence of the monomer and the ionic liquid on the electrochemical preparation of polythiophene. <i>Polymer</i> , 2005 , 46, 2047-2058	3.9	120
607	Novel halogen-free chelated orthoborate-phosphonium ionic liquids: synthesis and tribophysical properties. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12865-73	3.6	116

606	Protic ionic liquids based on the dimeric and oligomeric anions: [(AcO) _x H(x-1)] ⁻ . <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2972-8	3.6	115
605	Physical trends and structural features in organic salts of the thiocyanate anion. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3475-3480		112
604	Lithium doped N-methyl-N-ethylpyrrolidiniumbis(trifluoromethanesulfonyl)amide fast-ion conducting plastic crystals. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2259-2265		112
603	Ionic liquid electrolytes as a platform for rechargeable metal-air batteries: a perspective. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18658-74	3.6	111
602	Acid/organic base swollen polymer membranes. <i>Electrochimica Acta</i> , 2001 , 46, 1703-1708	6.7	110
601	Structural studies of ambient temperature plastic crystal ion conductors. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8257-8267	1.8	109
600	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2020 , 10, 2000093	21.8	107
599	Ionic liquid mixtures-variations in physical properties and their origins in molecular structure. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8251-8	3.4	106
598	Lithium ion mobility in poly(vinyl alcohol) based polymer electrolytes as determined by ⁷ Li NMR spectroscopy. <i>Electrochimica Acta</i> , 1998 , 43, 1465-1469	6.7	105
597	Properties of sodium-based ionic liquid electrolytes for sodium secondary battery applications. <i>Electrochimica Acta</i> , 2013 , 114, 766-771	6.7	103
596	Toward protic ionic liquid and organic ionic plastic crystal electrolytes for fuel cells. <i>Electrochimica Acta</i> , 2012 , 84, 213-222	6.7	102
595	Effect of diffusion-layer morphology on the performance of polymer electrolyte fuel cells operating at atmospheric pressure. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 641-646	2.6	102
594	Electrochemical and physicochemical properties of small phosphonium cation ionic liquid electrolytes with high lithium salt content. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8706-13	3.6	100
593	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> , 2007 , 111, 9018-24	3.4	100
592	Synergistic Corrosion Inhibition of Mild Steel in Aqueous Chloride Solutions by an Imidazolinium Carboxylate Salt. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1746-1755	8.3	99
591	Conducting polymer composite materials for hydrogen generation. <i>Advanced Materials</i> , 2010 , 22, 1727-30	3.4	99
590	Methanesulfonate and p-toluenesulfonate salts of the N-methyl-N-alkylpyrrolidinium and quaternary ammonium cations: novel low cost ionic liquids. <i>Green Chemistry</i> , 2002 , 4, 223-229	10	97
589	Microscopic Interactions in Nanocomposite Electrolytes. <i>Macromolecules</i> , 2001 , 34, 4549-4555	5.5	96

588	Synthesis and properties of ambient temperature molten salts based on the quaternary ammonium ion. <i>Ionics</i> , 1997 , 3, 356-362	2.7	93
587	Cerium Dibutylphosphate as a Corrosion Inhibitor for AA2024-T3 Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2006 , 153, B392	3.9	93
586	Inhibition of AA2024-T3 on a Phase-by-Phase Basis Using an Environmentally Benign Inhibitor, Cerium Dibutyl Phosphate. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, C180		91
585	An organic ionic plastic crystal electrolyte for rate capability and stability of ambient temperature lithium batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3352-3361	35.4	90
584	Ionic liquid electrolyte porphyrin dye sensitised solar cells. <i>Chemical Communications</i> , 2010 , 46, 3146-8	5.8	88
583	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin Ionic Liquid Polymer Electrolyte. <i>ACS Energy Letters</i> , 2017 , 2, 831-836	20.1	87
582	Structural Characterization of Novel Ionic Materials Incorporating the Bis(trifluoromethanesulfonyl)amide Anion. <i>Chemistry of Materials</i> , 2002 , 14, 2103-2108	9.6	86
581	Conductivity in amorphous polyether nanocomposite materials. <i>Solid State Ionics</i> , 1999 , 126, 269-276	3.3	86
580	Organic ionic plastic crystal electrolytes; a new class of electrolyte for high efficiency solid state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 2234	35.4	85
579	Ionic liquids and organic ionic plastic crystals utilizing small phosphonium cations. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7640		84
578	Weak intermolecular interactions in sulfonamide salts: structure of 1-ethyl-2-methyl-3-benzyl imidazolium bis[(trifluoromethyl)sulfonyl]amide. <i>Chemical Communications</i> , 1998 , 1593-1594	5.8	84
577	ATR characterisation of synergistic corrosion inhibition of mild steel surfaces by cerium salicylate. <i>Corrosion Science</i> , 2002 , 44, 2651-2656	6.8	83
576	Toward High-Energy-Density Lithium Metal Batteries: Opportunities and Challenges for Solid Organic Electrolytes. <i>Advanced Materials</i> , 2020 , 32, e1905219	24	81
575	Ionic Liquid Electrolyte for Lithium Metal Batteries: Physical, Electrochemical, and Interfacial Studies of N-Methyl-N-butylmorpholinium Bis(fluorosulfonyl)imide. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21775-21785	3.8	81
574	Corrosion protection of AA2024-T3 using rare earth diphenyl phosphates. <i>Electrochimica Acta</i> , 2007 , 52, 4024-4031	6.7	81
573	Enhancement of ion dynamics in PMMA-based gels with addition of TiO ₂ nano-particles. <i>Electrochimica Acta</i> , 2003 , 48, 2099-2103	6.7	81
572	Synthesis and physical property characterisation of phosphonium ionic liquids based on P(O)2(OR)2 and P(O)2(R)2 anions with potential application for corrosion mitigation of magnesium alloys. <i>Electrochimica Acta</i> , 2008 , 54, 254-260	6.7	79
571	Transport properties of ionic liquid electrolytes with organic diluents. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7202-8	3.6	78

570	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16928-16935	16.4	77
569	A study of 4-carboxyphenylboronic acid as a corrosion inhibitor for steel in carbon dioxide containing environments. <i>Corrosion Science</i> , 2013 , 76, 257-266	6.8	77
568	Structure-property relationships in plasticized solid polymer electrolytes. <i>Electrochimica Acta</i> , 1995 , 40, 2131-2136	6.7	77
567	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	13	76
566	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	21.8	76
565	Physicochemical properties of N-propyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide for sodium metal battery applications. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12350-5	3.6	76
564	A comparison of phosphorus and fluorine containing IL lubricants for steel on aluminium. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8224-31	3.6	76
563	Polymer-in-ionic-liquid electrolytes. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 1906-1911	2.6	76
562	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 534-538	16.4	76
561	Inorganic-Organic Ionic Liquid Electrolytes Enabling High Energy-Density Metal Electrodes for Energy Storage. <i>Electrochimica Acta</i> , 2016 , 220, 609-617	6.7	75
560	An Ionic Liquid Surface Treatment for Corrosion Protection of Magnesium Alloy AZ31. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, B52		75
559	Broadband dielectric response of the ionic liquid N-methyl-N-ethylpyrrolidinium dicyanamide. <i>Chemical Communications</i> , 2006 , 1748-50	5.8	75
558	Polymeric ionic liquids for lithium-based rechargeable batteries. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 294-309	4.6	74
557	New dimensions in salt-solvent mixtures: a 4th evolution of ionic liquids. <i>Faraday Discussions</i> , 2017 , 206, 9-28	3.6	74
556	Corrosion inhibition of 7000 series aluminium alloys with cerium diphenyl phosphate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1683-1690	5.7	74
555	New insights into the fundamental chemical nature of ionic liquid film formation on magnesium alloy surfaces. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1045-52	9.5	74
554	Exploring corrosion protection of Mg via ionic liquid pretreatment. <i>Surface and Coatings Technology</i> , 2007 , 201, 4496-4504	4.4	74
553	Ion transport in polymer electrolytes containing nanoparticulate TiO ₂ : The influence of polymer morphology. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 720-725	3.6	74

552	Transport properties and phase behaviour in binary and ternary ionic liquid electrolyte systems of interest in lithium batteries. <i>ChemPhysChem</i> , 2011 , 12, 823-7	3.2	73
551	Ionogels based on ionic liquids as potential highly conductive solid state electrolytes. <i>Electrochimica Acta</i> , 2013 , 91, 219-226	6.7	71
550	Towards a Better Understanding of 'Delocalized Charge' in Ionic Liquid Anions. <i>Australian Journal of Chemistry</i> , 2007 , 60, 15	1.2	71
549	Engineering high-energy-density sodium battery anodes for improved cycling with superconcentrated ionic-liquid electrolytes. <i>Nature Materials</i> , 2020 , 19, 1096-1101	27	70
548	Ionic Liquid-Based Rechargeable Lithium Metal-Polymer Cells Assembled with Polyaniline/Carbon Nanotube Composite Cathode. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A834	3.9	69
547	Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200 °C. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4019-4024	13	68
546	Biocompatible ionic liquid-biopolymer electrolyte-enabled thin and compact magnesium-air batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21110-7	9.5	68
545	The behaviour of praseodymium 4-hydroxycinnamate as an inhibitor for carbon dioxide corrosion and oxygen corrosion of steel in NaCl solutions. <i>Corrosion Science</i> , 2014 , 80, 128-138	6.8	67
544	Stoichiometric changes in lithium conducting materials based on $\text{Li}_{1+x}\text{Al}_x\text{Ti}_2\text{O}_{10}(\text{PO}_4)_3$: impedance, X-ray and NMR studies. <i>Solid State Ionics</i> , 2000 , 136-137, 339-344	3.3	67
543	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17130-17134	16.4	67
542	Inhibition of Corrosion on AA2024-T3 by New Environmentally Friendly Rare Earth Organophosphate Compounds. <i>Corrosion</i> , 2008 , 64, 191-197	1.8	66
541	Nickel sulfide cathode in combination with an ionic liquid-based electrolyte for rechargeable lithium batteries. <i>Solid State Ionics</i> , 2008 , 179, 2379-2382	3.3	66
540	Conductivity, NMR and crystallographic study of N,N,N,N-tetramethylammonium dicyanamide plastic crystal phases: an archetypal ambient temperature plastic electrolyte material. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2692	3.6	66
539	NMR and Raman studies of a novel fast-ion-conducting polymer-in-salt electrolyte based on LiCF_3SO_3 and PAN. <i>Electrochimica Acta</i> , 2000 , 45, 1237-1242	6.7	66
538	A review of ionic liquid surface film formation on Mg and its alloys for improved corrosion performance. <i>Electrochimica Acta</i> , 2013 , 110, 501-510	6.7	65
537	Investigation of the electropolymerisation of EDOT in ionic liquids. <i>Synthetic Metals</i> , 2005 , 153, 257-260	3.6	65
536	Processing and morphological development of carbon black filled conducting blends using a binary host of poly(styrene co-acrylonitrile) and poly(styrene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 3106-3119	2.6	65
535	Glass transition and free volume behaviour of poly(acrylonitrile)/ LiCF_3SO_3 polymer-in-salt electrolytes compared to poly(ether urethane)/ LiClO_4 solid polymer electrolytes. <i>Electrochimica Acta</i> , 2000 , 45, 1243-1247	6.7	65

534	Order-disorder transitions in poly(3,4-ethylenedioxythiophene). <i>Polymer</i> , 2008 , 49, 481-487	3.9	64
533	The nature of the surface film on steel treated with cerium and lanthanum cinnamate based corrosion inhibitors. <i>Corrosion Science</i> , 2006 , 48, 404-419	6.8	64
532	Poly(ethylene oxide carbonates) solid polymer electrolytes for lithium batteries. <i>Electrochimica Acta</i> , 2018 , 264, 367-375	6.7	63
531	Effectiveness of Rare-Earth Metal Compounds as Corrosion Inhibitors for Steel. <i>Corrosion</i> , 2002 , 58, 953-960	6.0	63
530	Aluminium speciation in 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide/AlCl ₃ mixtures. <i>Chemistry - A European Journal</i> , 2009 , 15, 3435-47	4.8	62
529	Applications of scanning electrochemical microscopy (SECM) for local characterization of AZ31 surface during corrosion in a buffered media. <i>Corrosion Science</i> , 2014 , 86, 93-100	6.8	61
528	A biocompatible ionic liquid as an antiwear additive for biodegradable lubricants. <i>Tribology International</i> , 2014 , 77, 171-177	4.9	61
527	Chelating ionic liquids for reversible zinc electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7191-7	3.6	61
526	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	3.8	60
525	Electrochemical, Transport, and Spectroscopic Properties of 1-Ethyl-3-methylimidazolium Ionic Liquid Electrolytes Containing Zinc Dicyanamide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2662-2669	3.8	60
524	Li-Metal Symmetrical Cell Studies Using Ionic Organic Plastic Crystal Electrolyte. <i>Advanced Engineering Materials</i> , 2009 , 11, 1044-1048	3.5	60
523	Ionic conductivity of polymer gels deriving from alkali metal ionic liquids and negatively charged polyelectrolytes. <i>Electrochimica Acta</i> , 2004 , 49, 1797-1801	6.7	60
522	Novel high salt content polymer electrolytes based on high Tg polymers. <i>Electrochimica Acta</i> , 2000 , 45, 1249-1254	6.7	60
521	Corrosion of heat treated magnesium alloy ZE41. <i>Corrosion Science</i> , 2011 , 53, 3299-3308	6.8	59
520	High-energy density room temperature sodium-sulfur battery enabled by sodium polysulfide catholyte and carbon cloth current collector decorated with MnO ₂ nanoarrays. <i>Energy Storage Materials</i> , 2019 , 20, 196-202	19.4	59
519	One-Step Synthesis of Conducting Polymer-Noble Metal Nanoparticle Composites using an Ionic Liquid. <i>Advanced Functional Materials</i> , 2008 , 18, 2031-2040	15.6	58
518	Microstructure and corrosion of AA2024. <i>Corrosion Reviews</i> , 2015 , 33, 1-30	3.2	57
517	Lithium doped N,N-dimethyl pyrrolidinium tetrafluoroborate organic ionic plastic crystal electrolytes for solid state lithium batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10171		57

516	Corrosion Mitigation of Mild Steel by New Rare Earth Cinnamate Compounds. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 591-599	2.6	57
515	Influence of Zn ²⁺ and water on the transport properties of a pyrrolidinium dicyanamide ionic liquid. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4895-905	3.4	55
514	Nanoelectrodes: energy conversion and storage. <i>Materials Today</i> , 2009 , 12, 20-27	21.8	55
513	Conducting Polymers with Fibrillar Morphology Synthesized in a Biphasic Ionic Liquid/Water System. <i>Macromolecules</i> , 2007 , 40, 2702-2711	5.5	55
512	Lithium polyelectrolyte/ionic liquid systems. <i>Solid State Ionics</i> , 2002 , 147, 333-339	3.3	55
511	Microstructural and molecular level characterisation of plastic crystal phases of pyrrolidinium trifluoromethanesulfonyl salts. <i>Solid State Ionics</i> , 2002 , 154-155, 119-124	3.3	55
510	A new family of ionic liquids based on the 1-alkyl-2-methyl pyrrolinium cation. <i>Electrochimica Acta</i> , 2003 , 48, 1707-1711	6.7	55
509	Compositional dependence of free volume in PAN/LiCF ₃ SO ₃ polymer-in-salt electrolytes and the effect on ionic conductivity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 341-350	2.6	55
508	Quantifying rubber degradation using NMR. <i>Polymer Degradation and Stability</i> , 2000 , 70, 31-37	4.7	55
507	Connectivity, ionic interactions, and migration in a fast-ion-conducting polymer-in-salt electrolyte based on poly(acrylonitrile) and LiCF ₃ SO ₃ . <i>Journal of Applied Physics</i> , 1999 , 86, 2346-2348	2.5	55
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47	Composite electrolytes based on electrospun PVDF and ionic plastic crystal matrices for Na-metal battery applications. <i>JPhys Materials</i> , 2021 , 4, 034003	4.2	2
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