

Stefano Passerini

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.

694 papers	39,667 citations	104 h-index	163 g-index
792 ext. papers	45,441 ext. citations	8.5 avg, IF	8 L-index

#	Paper	IF	Citations
694	The role of graphene for electrochemical energy storage. <i>Nature Materials</i> , 2015 , 14, 271-9	27	1882
693	A cost and resource analysis of sodium-ion batteries. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	886
692	Ionic-Liquid-Based Polymer Electrolytes for Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 500-13	16.4	490
691	High temperature carbon/carbon supercapacitor using ionic liquid as electrolyte. <i>Journal of Power Sources</i> , 2007 , 165, 922-927	8.9	485
690	Safer Electrolytes for Lithium-Ion Batteries: State of the Art and Perspectives. <i>ChemSusChem</i> , 2015 , 8, 2154-75	8.3	474
689	The lithium/air battery: still an emerging system or a practical reality?. <i>Advanced Materials</i> , 2015 , 27, 784-800	24	471
688	An Overview and Future Perspectives of Aluminum Batteries. <i>Advanced Materials</i> , 2016 , 28, 7564-79	24	470
687	Recent progress and remaining challenges in sulfur-based lithium secondary batteries--a review. <i>Chemical Communications</i> , 2013 , 49, 10545-62	5.8	430
686	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	391
685	Ionic liquids to the rescue? Overcoming the ionic conductivity limitations of polymer electrolytes. <i>Electrochemistry Communications</i> , 2003 , 5, 1016-1020	5.1	388
684	The mechanism of HF formation in LiPF ₆ based organic carbonate electrolytes. <i>Electrochemistry Communications</i> , 2012 , 14, 47-50	5.1	330
683	Current research trends and prospects among the various materials and designs used in lithium-based batteries. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 481-496	2.6	316
682	PEO-Based Polymer Electrolytes with Ionic Liquids and Their Use in Lithium Metal-Polymer Electrolyte Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A978	3.9	307
681	Carbon Coated ZnFe ₂ O ₄ Nanoparticles for Advanced Lithium-Ion Anodes. <i>Advanced Energy Materials</i> , 2013 , 3, 513-523	21.8	292
680	Non-Aqueous K-Ion Battery Based on Layered K _{0.3} MnO ₂ and Hard Carbon/Carbon Black. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1295-A1299	3.9	291
679	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. <i>Materials Today</i> , 2019 , 23, 87-104	21.8	276
678	All-solid-state lithium-ion and lithium metal batteries paving the way to large-scale production. <i>Journal of Power Sources</i> , 2018 , 382, 160-175	8.9	275

677	Electrodeposited ZnO/Cu ₂ O heterojunction solar cells. <i>Electrochimica Acta</i> , 2008 , 53, 2226-2231	6.7	262
676	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1902485	21.8	261
675	Anatase TiO ₂ nanoparticles for high power sodium-ion anodes. <i>Journal of Power Sources</i> , 2014 , 251, 3798-3805	35.5	257
674	Unfolding the Mechanism of Sodium Insertion in Anatase TiO ₂ Nanoparticles. <i>Advanced Energy Materials</i> , 2015 , 5, 1401142	21.8	255
673	Phase Behavior of Ionic Liquid ⁺ Mixtures: Pyrrolidinium Cations and TFSI ⁻ Anions. <i>Chemistry of Materials</i> , 2004 , 16, 2881-2885	9.6	250
672	Alternative binders for sustainable electrochemical energy storage II the transition to aqueous electrode processing and bio-derived polymers. <i>Energy and Environmental Science</i> , 2018 , 11, 3096-3127	35.4	234
671	Low Cost, Environmentally Benign Binders for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A320	3.9	224
670	Reversible Intercalation of Bis(trifluoromethanesulfonyl)imide Anions from an Ionic Liquid Electrolyte into Graphite for High Performance Dual-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1755-A1765	3.9	219
669	Ionic liquids in supercapacitors. <i>MRS Bulletin</i> , 2013 , 38, 554-559	3.2	209
668	Nanoscale organization in piperidinium-based room temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2009 , 130, 164521	3.9	203
667	Challenges and prospects of the role of solid electrolytes in the revitalization of lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17251-17259	13	202
666	Mixtures of ionic liquid and organic carbonate as electrolyte with improved safety and performance for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2011 , 56, 4092-4099	6.7	200
665	Energy storage materials synthesized from ionic liquids. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13342-59	16.4	198
664	Two-Dimensional Titanium Carbide/RGO Composite for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15661-7	9.5	193
663	Enhanced thermal stability of a lithiated nano-silicon electrode by fluoroethylene carbonate and vinylene carbonate. <i>Journal of Power Sources</i> , 2013 , 222, 140-149	8.9	189
662	ZnFeO-C/LiFePO ₄ -CNT: A Novel High-Power Lithium-Ion Battery with Excellent Cycling Performance. <i>Advanced Energy Materials</i> , 2014 , 4, 1-9	21.8	186
661	Effect of the alkyl group on the synthesis and the electrochemical properties of N-alkyl-N-methyl-pyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquids. <i>Electrochimica Acta</i> , 2009 , 54, 1325-1332	6.7	185
660	High Performance Na _{0.5} [Ni _{0.23} Fe _{0.13} Mn _{0.63}]O ₂ Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1400083	21.8	182

- 659 Synthesis of Hydrophobic Ionic Liquids for Electrochemical Applications. *Journal of the Electrochemical Society*, **2006**, 153, A1685 3.9 182
- 658 An advanced lithium-air battery exploiting an ionic liquid-based electrolyte. *Nano Letters*, **2014**, 14, 6572-6575 11.5 178
- 657 Lithium- and Manganese-Rich Oxide Cathode Materials for High-Energy Lithium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600906 21.8 177
- 656 Extraordinary Performance of Carbon-Coated Anatase TiO₂ as Sodium-Ion Anode. *Advanced Energy Materials*, **2016**, 6, 1501489 21.8 174
- 655 Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials. *Advanced Energy Materials*, **2018**, 8, 1702582 21.8 173
- 654 Toward Na-ion Batteries: Synthesis and Characterization of a Novel High Capacity Na Ion Intercalation Material. *Chemistry of Materials*, **2013**, 25, 142-148 9.6 172
- 653 Raman investigation of the ionic liquid N-methyl-N-propylpyrrolidinium bis(trifluoromethanesulfonyl)imide and its mixture with LiN(SO₂CF₃)₂. *Journal of Physical Chemistry A*, **2005**, 109, 92-6 2.8 170
- 652 Solid-state Li/LiFePO₄ polymer electrolyte batteries incorporating an ionic liquid cycled at 40°C. *Journal of Power Sources*, **2006**, 156, 560-566 8.9 170
- 651 A New Synthetic Route for Preparing LiFePO₄ with Enhanced Electrochemical Performance. *Journal of the Electrochemical Society*, **2002**, 149, A886 3.9 170
- 650 Synthesis and electrochemical performance of the high voltage cathode material Li[Li_{0.2}Mn_{0.56}Ni_{0.16}Co_{0.08}]O₂ with improved rate capability. *Journal of Power Sources*, **2011**, 196, 4821-4825 8.9 167
- 649 X-ray diffraction studies of the electrochemical intercalation of bis(trifluoromethanesulfonyl)imide anions into graphite for dual-ion cells. *Journal of Power Sources*, **2013**, 239, 563-571 8.9 164
- 648 Apple-Biowaste-Derived Hard Carbon as a Powerful Anode Material for Na-Ion Batteries. *ChemElectroChem*, **2016**, 3, 292-298 4.3 162
- 647 Lithium insertion in graphite from ternary ionic liquid-lithium salt electrolytes: I. Electrochemical characterization of the electrolytes. *Journal of Power Sources*, **2009**, 192, 599-605 8.9 161
- 646 NMR investigation of ionic liquid-LiX mixtures: pyrrolidinium cations and TFSI⁻ anions. *Journal of Physical Chemistry B*, **2005**, 109, 22814-9 3.4 160
- 645 Doped Vanadium Oxides as Host Materials for Lithium Intercalation. *Journal of the Electrochemical Society*, **1999**, 146, 1355-1360 3.9 160
- 644 Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. *Progress in Solid State Chemistry*, **2014**, 42, 65-84 8 159
- 643 Cobalt Disulfide Nanoparticles Embedded in Porous Carbonaceous Micro-Polyhedrons Interlinked by Carbon Nanotubes for Superior Lithium and Sodium Storage. *ACS Nano*, **2018**, 12, 7220-7231 16.7 158
- 642 Physical and electrochemical properties of N-alkyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide ionic liquids: PY13FSI and PY14FSI. *Journal of Physical Chemistry B*, **2008**, 112, 13577-80 3.4 157

641	Cycling stability of a hybrid activated carbon//poly(3-methylthiophene) supercapacitor with N-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid as electrolyte. <i>Electrochimica Acta</i> , 2005 , 50, 2233-2237	6.7	157
640	Use of natural binders and ionic liquid electrolytes for greener and safer lithium-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 2187-2194	8.9	156
639	High Surface Area V ₂ O ₅ Aerogel Intercalation Electrodes. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 2099-2104	3.9	154
638	Leveraging valuable synergies by combining alloying and conversion for lithium-ion anodes. <i>Energy and Environmental Science</i> , 2016 , 9, 3348-3367	35.4	153
637	Life cycle assessment of sodium-ion batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 1744-1751	35.4	151
636	Electrochemical Properties of Polyethylene Oxide - Li [(CF ₃ SO ₂) ₂ N] - Gamma - LiAlO ₂ Composite Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2118-2121	3.9	148
635	Intercalation of Polyvalent Cations into V ₂ O ₅ Aerogels. <i>Chemistry of Materials</i> , 1998 , 10, 682-684	9.6	145
634	The role of conductive polymers in advanced electrochemical technology. <i>Electrochimica Acta</i> , 1994 , 39, 255-263	6.7	141
633	Solvent-free, PYR1ATFSI ionic liquid-based ternary polymer electrolyte systems. <i>Journal of Power Sources</i> , 2007 , 171, 861-869	8.9	139
632	Electrochemical double layer capacitor and lithium-ion capacitor based on carbon black. <i>Journal of Power Sources</i> , 2011 , 196, 8836-8842	8.9	137
631	UV cross-linked, lithium-conducting ternary polymer electrolytes containing ionic liquids. <i>Journal of Power Sources</i> , 2010 , 195, 6130-6137	8.9	136
630	Suppression of aluminum current collector corrosion in ionic liquid containing electrolytes. <i>Journal of Power Sources</i> , 2012 , 214, 178-184	8.9	135
629	A comparative study of layered transition metal oxide cathodes for application in sodium-ion battery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5206-12	9.5	133
628	Water sensitivity of layered P2/P3-NaxNi _{0.22} Co _{0.11} Mn _{0.66} O ₂ cathode material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13415-13421	13	133
627	Chemical & physical properties of bis(perfluoroalkylsulfonyl)imide-based ionic liquids. <i>Electrochimica Acta</i> , 2011 , 56, 1300-1307	6.7	128
626	How Do Reactions at the Anode/Electrolyte Interface Determine the Cathode Performance in Lithium-Ion Batteries?. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A542-A548	3.9	126
625	Hybrid electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2018 , 392, 206-225	8.9	125
624	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. <i>Journal of Power Sources</i> , 2018 , 382, 176-178	8.9	124

623	Molecular Environment and Enhanced Diffusivity of Li ⁺ Ions in Lithium-Salt-Doped Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 153-157	6.4	123
622	An Elegant Fix for Polymer Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A125		123
621	Transition-Metal-Doped Zinc Oxide Nanoparticles as a New Lithium-Ion Anode Material. <i>Chemistry of Materials</i> , 2013 , 25, 4977-4985	9.6	122
620	Mechanism of Anodic Dissolution of the Aluminum Current Collector in 1 M LiTFSI EC:DEC 3:7 in Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A356-A360	3.9	120
619	Development of safe, green and high performance ionic liquids-based batteries (ILLIBATT project). <i>Journal of Power Sources</i> , 2011 , 196, 9719-9730	8.9	119
618	A sodium-ion battery exploiting layered oxide cathode, graphite anode and glyme-based electrolyte. <i>Journal of Power Sources</i> , 2016 , 310, 26-31	8.9	118
617	Electrochemical and Physicochemical Properties of PY[^{sub 14}]FSI-Based Electrolytes with LiFSI. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A891	3.9	118
616	Ion chromatographic determination of hydrolysis products of hexafluorophosphate salts in aqueous solution. <i>Analytica Chimica Acta</i> , 2012 , 714, 121-6	6.6	117
615	Layered Na-Ion Cathodes with Outstanding Performance Resulting from the Synergetic Effect of Mixed P- and O-Type Phases. <i>Advanced Energy Materials</i> , 2016 , 6, 1501555	21.8	117
614	Electrochemical performance of a solvent-free hybrid ceramic-polymer electrolyte based on Li ₇ La ₃ Zr ₂ O ₁₂ in P(EO) ₁₅ LiTFSI. <i>Journal of Power Sources</i> , 2017 , 353, 287-297	8.9	116
613	Lithium ion insertion in porous metal oxides. <i>Electrochimica Acta</i> , 1999 , 45, 215-224	6.7	116
612	Influence of graphite surface modifications on the ratio of basal plane to non-basal plane surface area and on the anode performance in lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 200, 83-91	8.9	115
611	Puzzling out the origin of the electrochemical activity of black P as a negative electrode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5293	13	114
610	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. <i>Nano Energy</i> , 2019 , 55, 327-340	17.1	114
609	Unexpected performance of layered sodium-ion cathode material in ionic liquid-based electrolyte. <i>Journal of Power Sources</i> , 2014 , 247, 377-383	8.9	113
608	Melting Behavior of Pyrrolidinium-Based Ionic Liquids and Their Binary Mixtures. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12364-12369	3.8	113
607	Investigation on the Stability of the Lithium-Polymer Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 4448	3.9	113
606	Comprehensive Insights into the Reactivity of Electrolytes Based on Sodium Ions. <i>ChemSusChem</i> , 2016 , 9, 462-71	8.3	112

605	In-Depth Interfacial Chemistry and Reactivity Focused Investigation of Lithium-Imide- and Lithium-Imidazole-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16087-100	9.5	111
604	Characterization of Solvent-Free Polymer Electrolytes Consisting of Ternary PEO/TFPI/TFSI. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1649	3.9	111
603	Recent developments in the ENEA lithium metal battery project. <i>Electrochimica Acta</i> , 2005 , 50, 3859-3866	4.7	111
602	Development of ionic liquid-based lithium battery prototypes. <i>Journal of Power Sources</i> , 2012 , 199, 239-246	3.5	110
601	Interface investigations of a commercial lithium ion battery graphite anode material by sputter depth profile X-ray photoelectron spectroscopy. <i>Langmuir</i> , 2013 , 29, 5806-16	4	109
600	Exceptional long-life performance of lithium-ion batteries using ionic liquid-based electrolytes. <i>Energy and Environmental Science</i> , 2016 , 9, 3210-3220	35.4	108
599	Synthesis and characterization of highly conducting gel electrolytes. <i>Electrochimica Acta</i> , 1994 , 39, 2187-2194	4.1	108
598	Critical Insight into the Relentless Progression Toward Graphene and Graphene-Containing Materials for Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2017 , 29, 1603421	24	107
597	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2020 , 10, 2000093	21.8	107
596	On the cycling stability of lithium-ion capacitors containing soft carbon as anodic material. <i>Journal of Power Sources</i> , 2013 , 238, 388-394	8.9	107
595	Natural cellulose as binder for lithium battery electrodes. <i>Journal of Power Sources</i> , 2012 , 199, 331-335	8.9	105
594	Electrolyte Solvation and Ionic Association III. Acetonitrile-Lithium Salt Mixtures—Transport Properties. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1061-A1070	3.9	105
593	Lithium insertion in graphite from ternary ionic liquid—lithium salt electrolytes: II. Evaluation of specific capacity and cycling efficiency and stability at room temperature. <i>Journal of Power Sources</i> , 2009 , 192, 606-611	8.9	105
592	Enabling aqueous binders for lithium battery cathodes [Carbon coating of aluminum current collector. <i>Journal of Power Sources</i> , 2014 , 248, 1000-1006	8.9	104
591	Bilayered Nanostructured V ₂ O ₅ ·nH ₂ O for Metal Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600868	21.8	101
590	Aerogels and Xerogels of V ₂ O ₅ as Intercalation Hosts. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L102-L103	3.9	101
589	Investigation of thermal aging and hydrolysis mechanisms in commercial lithium ion battery electrolyte. <i>Journal of Power Sources</i> , 2013 , 242, 832-837	8.9	98
588	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2017 , 10, 2668-2676	8.3	97

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586	In Situ X-Ray Absorption Spectroscopy Characterization of V ₂ O ₅ Xerogel Cathodes upon Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2387-2392	3.9	97
585	Complex Nature of Ionic Coordination in Magnesium Ionic Liquid-Based Electrolytes: Solvates with Mobile Mg ²⁺ Cations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9966-9973	3.8	96
584	Dependency of Aluminum Collector Corrosion in Lithium Ion Batteries on the Electrolyte Solvent. <i>ECS Electrochemistry Letters</i> , 2012 , 1, C9-C11		96
583	Room temperature lithium polymer batteries based on ionic liquids. <i>Journal of Power Sources</i> , 2011 , 196, 6703-6709	8.9	96
582	PEO-LiN(SO ₂ CF ₃) ₂ Polymer Electrolytes: I. XRD, DSC, and Ionic Conductivity Characterization. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1171	3.9	96
581	Mg-doping for improved long-term cyclability of layered Na-ion cathode materials – The example of P2-type Na _x Mg _{0.11} Mn _{0.89} O ₂ . <i>Journal of Power Sources</i> , 2015 , 282, 581-585	8.9	95
580	Hysteresis Effects in the Potential-Dependent Double Layer Capacitance of Room Temperature Ionic Liquids at a Polycrystalline Platinum Interface. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3614-3617	7.8	94
579	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 598-616	16.4	94
578	Nanocrystalline TiO ₂ (B) as Anode Material for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A3052-A3058	3.9	93
577	Dual-ion Cells Based on Anion Intercalation into Graphite from Ionic Liquid-Based Electrolytes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 391-407	3.1	93
576	Structural organization and transport properties of novel pyrrolidinium-based ionic liquids with perfluoroalkyl sulfonylimide anions. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10750-9	3.4	92
575	Overview of energy/hydrogen storage: state-of-the-art of the technologies and prospects for nanomaterials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 108, 2-8	3.1	91
574	Ionic Liquid Electrolytes for Safer Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6026-A6031	3.9	90
573	Investigations on cellulose-based high voltage composite cathodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 7687-7691	8.9	90
572	Comparative study of imide-based Li salts as electrolyte additives for Li-ion batteries. <i>Journal of Power Sources</i> , 2018 , 375, 43-52	8.9	90
571	Non-aqueous potassium-ion batteries: a review. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 41-48	7.2	88
570	Ionic mobility in ternary polymer electrolytes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012 , 86, 330-338	6.7	88

569	Ionic liquids as tailored media for the synthesis and processing of energy conversion materials. <i>Energy and Environmental Science</i> , 2016 , 9, 49-61	35.4	87
568	Performance of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /graphite batteries based on aqueous binder. <i>Journal of Power Sources</i> , 2014 , 248, 915-922	8.9	87
567	An electrochemical study of oxygen reduction in pyrrolidinium-based ionic liquids for lithium/oxygen batteries. <i>Electrochimica Acta</i> , 2012 , 83, 94-104	6.7	87
566	The role of the cation aliphatic side chain length in piperidinium bis(trifluoromethanesulfonyl)imide ionic liquids. <i>Electrochimica Acta</i> , 2011 , 57, 153-159	6.7	87
565	Insights into the reversibility of aluminum graphite batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9682-9690	13	84
564	High flash point electrolyte for use in lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 7530-7535	6.7	84
563	Toward high energy density cathode materials for sodium-ion batteries: investigating the beneficial effect of aluminum doping on the P2-type structure. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4467-4477	13	83
562	Fe-doped SnO ₂ nanoparticles as new high capacity anode material for secondary lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 299, 398-402	8.9	83
561	P2-type layered Na _{0.45} Ni _{0.22} Co _{0.11} Mn _{0.66} O ₂ as intercalation host material for lithium and sodium batteries. <i>Electrochimica Acta</i> , 2013 , 110, 208-213	6.7	83
560	Decoupling segmental relaxation and ionic conductivity for lithium-ion polymer electrolytes. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 779-792	4.6	82
559	Homogeneous lithium electrodeposition with pyrrolidinium-based ionic liquid electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5950-8	9.5	81
558	Influence of the carbonaceous conductive network on the electrochemical performance of ZnFe ₂ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2013 , 236, 87-94	8.9	81
557	Development of an all-solid-state lithium battery by slurry-coating procedures using a sulfidic electrolyte. <i>Energy Storage Materials</i> , 2019 , 17, 204-210	19.4	81
556	Room temperature ionic liquid (RTIL)-based electrolyte cocktails for safe, high working potential Li-based polymer batteries. <i>Journal of Power Sources</i> , 2019 , 412, 398-407	8.9	81
555	High rate electrodes of V ₂ O ₅ aerogel. <i>Electrochimica Acta</i> , 1999 , 44, 2209-2217	6.7	80
554	Beneficial influence of succinic anhydride as electrolyte additive on the self-discharge of 5V LiNi _{0.4} Mn _{1.6} O ₄ cathodes. <i>Journal of Power Sources</i> , 2013 , 236, 39-46	8.9	79
553	Carbon coated lithium sulfide particles for lithium battery cathodes. <i>Journal of Power Sources</i> , 2013 , 235, 220-225	8.9	78
552	Characteristics of an ionic liquid electrolyte for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 303, 203-207	8.9	77

551	Investigation of different binding agents for nanocrystalline anatase TiO ₂ anodes and its application in a novel, green lithium-ion battery. <i>Journal of Power Sources</i> , 2013 , 221, 419-426	8.9	77
550	Calcium vanadate sub-microfibers as highly reversible host cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , 2019 , 55, 2265-2268	5.8	76
549	Thermal and electrochemical properties of PEO-LiTFSI-Pyr14TFSI-based composite cathodes, incorporating 4V-class cathode active materials. <i>Journal of Power Sources</i> , 2014 , 246, 846-857	8.9	76
548	The Intercalation of Lithium in Nickel Oxide and Its Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 3297-3300	3.9	76
547	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
546	Single-Ion Conducting Electrolyte Based on Electrospun Nanofibers for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803422	21.8	76
545	Percolating networks of TiO ₂ nanorods and carbon for high power lithium insertion electrodes. <i>Journal of Power Sources</i> , 2012 , 206, 301-309	8.9	75
544	Fluorosulfonyl-(trifluoromethanesulfonyl)imide ionic liquids with enhanced asymmetry. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2565-71	3.6	75
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