

# Stefano Passerini

## 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.

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	Photo-Crosslinked Single-Ion Conducting Polymer Electrolyte for Lithium-Metal Batteries.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2100820	4.8	1
693	Diagnosis tools for humidity-born surface contaminants on Li[Ni <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> ]O <sub>2</sub> cathode materials for lithium batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 525, 231111	8.9	3
692	Silicon anode systems for lithium-ion batteries <b>2022</b> , 3-46		0
691	Synergistic Effect of Co and Mn Co-Doping on SnO <sub>2</sub> Lithium-Ion Anodes. <i>Inorganics</i> , <b>2022</b> , 10, 46	2.9	0
690	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-Ion Batteries* <b>2022</b> , 55-99		5
689	Elucidating the Role of Microstructure in Thiophosphate Electrolytes - a Combined Experimental and Theoretical Study of Li PS.. <i>Advanced Science</i> , <b>2022</b> , e2105234	13.6	3
688	Quantification of charge compensation in lithium- and manganese-rich Li-ion cathode materials by x-ray spectroscopies. <i>Materials Today Physics</i> , <b>2022</b> , 24, 100687	8	0
687	Quasi-Solid-State Lithium Metal Batteries Using the LiNiCoMnO-LiAlTi(PO) Composite Positive Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 53810-53817	9.5	0
686	Combined Role of Biaxial Strain and Nonstoichiometry for the Electronic, Magnetic, and Redox Properties of Lithiated Metal-Oxide Films: The LiMnO Case. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54610-54619	9.5	
685	Effect of organic cations in locally concentrated ionic liquid electrolytes on the electrochemical performance of lithium metal batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 44, 370-370	19.4	11
684	Monitoring the Sodiation Mechanism of Anatase TiO <sub>2</sub> Nanoparticle-Based Electrodes for Sodium-Ion Batteries by Operando XANES Measurements. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 164-175	6.1	4
683	Effect of Applying a Carbon Coating on the Crystal Structure and De-/Lithiation Mechanism of Mn-Doped ZnO Lithium-Ion Anodes. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 030503	3.9	3
682	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodium- and Lithium-Ion Storage. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 960-977	5.6	3
681	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on Li <sub>6.25</sub> Al <sub>0.25</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> (LLZO) Garnet-Type Solid Electrolyte. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1145-1155	5.6	4
680	Soft X-ray Transmission Microscopy on Lithium-Rich Layered-Oxide Cathode Materials. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2791	2.6	0
679	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 8947-8958	3.8	2
678	Transport studies of NaPF <sub>6</sub> carbonate solvents-based sodium ion electrolytes. <i>Electrochimica Acta</i> , <b>2021</b> , 377, 138062	6.7	4

677	Isovalent vs. aliovalent transition metal doping of zinc oxide lithium-ion battery anodes: In-depth investigation by ex situ and operando X-ray absorption spectroscopy. <i>Materials Today Chemistry</i> , <b>2021</b> , 20, 100478	6.2	3
676	Highly Stable Quasi-Solid-State Lithium Metal Batteries: Reinforced Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> /Li Interface by a Protection Interlayer. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101339	21.8	9
675	Reversible Copper Sulfide Conversion in Nonflammable Trimethyl Phosphate Electrolytes for Safe Sodium-Ion Batteries. <i>Small Structures</i> , <b>2021</b> , 2, 2100035	8.7	17
674	Enhanced Li Transport in Ionic Liquid-Based Electrolytes Aided by Fluorinated Ethers for Highly Efficient Lithium Metal Batteries with Improved Rate Capability.. <i>Small Methods</i> , <b>2021</b> , 5, e2100168	12.8	14
673	Lithium Phosphonate Functionalized Polymer Coating for High-Energy Li[Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> with Superior Performance at Ambient and Elevated Temperatures. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105343	15.6	11
672	Gravure-Printed Conversion/Alloying Anodes for Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2021</b> , 9, 2100345	3.5	1
671	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 598-616	16.4	94
670	Wässrige Hochleistungsbatterien: Herausforderungen und Strategien. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 608-626	3.6	5
669	Synergistic electrolyte additives for enhancing the performance of high-voltage lithium-ion cathodes in half-cells and full-cells. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228975	8.9	13
668	Green and low-cost acetate-based electrolytes for the highly reversible zinc anode. <i>Journal of Power Sources</i> , <b>2021</b> , 485, 229329	8.9	11
667	Nonfluorinated Ionic Liquid Electrolytes for Lithium Metal Batteries: Ionic Conduction, Electrochemistry, and Interphase Formation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003521	21.8	15
666	Ionic Liquid in Li Salt Electrolyte: Modifying the Li <sup>+</sup> Transport Mechanism by Coordination to an Asymmetric Anion. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000078	1.6	13
665	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 324, 115069	6	9
664	Tragacanth Gum as Green Binder for Sustainable Water-Processable Electrochemical Capacitor. <i>ChemSusChem</i> , <b>2021</b> , 14, 356-362	8.3	9
663	Sodium Cyclopentadienide as a New Type of Electrolyte for Sodium Batteries. <i>ChemElectroChem</i> , <b>2021</b> , 8, 365-369	4.3	
662	Tin-Containing Graphite for Sodium-Ion Batteries and Hybrid Capacitors. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 173-182	5.6	12
661	ZnO-Based Conversion/Alloying Negative Electrodes for Lithium-Ion Batteries: Impact of Mixing Intimacy. <i>Energy Technology</i> , <b>2021</b> , 9, 2001084	3.5	2
660	Impact of the Transition Metal Dopant in Zinc Oxide Lithium-Ion Anodes on the Solid Electrolyte Interphase Formation.. <i>Small Methods</i> , <b>2021</b> , 5, e2001021	12.8	9

659	Local Interactions Governing the Performances of Lithium- and Manganese-Rich Cathodes. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1195-1201	6.4	3
658	Effect of the Secondary Rutile Phase in Single-Step Synthesized Carbon-Coated Anatase TiO <sub>2</sub> Nanoparticles as Lithium-Ion Anode Material. <i>Energy Technology</i> , <b>2021</b> , 9, 2001067	3.5	2
657	An Alternative Charge-Storage Mechanism for High-Performance Sodium-Ion and Potassium-Ion Anodes. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 915-924	20.1	10
656	Embedding Heterostructured $\gamma$ -MnS/MnO Nanoparticles in S-Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2021</b> , 8, 918-927	4.3	8
655	Acidic Ionic Liquids Enabling Intermediate Temperature Operation Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8370-8382	9.5	7
654	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100962	21.8	9
653	Liquid-Assisted Mechanochemical Synthesis of LiI-Doped Sulfide Glass Electrolyte. <i>Energy Technology</i> , <b>2021</b> , 9, 2100385	3.5	2
652	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129131	14.7	6
651	A Thin and Uniform Fluoride-Based Artificial Interphase for the Zinc Metal Anode Enabling Reversible Zn/MnO <sub>2</sub> Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3063-3071	20.1	39
650	Dual-anion ionic liquid electrolyte enables stable Ni-rich cathodes in lithium-metal batteries. <i>Joule</i> , <b>2021</b> , 5, 2177-2194	27.8	21
649	Cycle parameter dependent degradation analysis in automotive lithium-ion cells. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230227	8.9	2
648	High-Li <sup>+</sup> -fraction ether-side-chain pyrrolidinium $\beta$ -symmetric imide ionic liquid electrolyte for high-energy-density Si//Ni-rich layered oxide Li-ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132693	14.7	6
647	Redox-Mediated Red-Phosphorous Semi-Liquid Anode Enabling Metal-Free Rechargeable Na-Seawater Batteries with High Energy Density. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102061	21.8	7
646	Production of high-energy Li-ion batteries comprising silicon-containing anodes and insertion-type cathodes. <i>Nature Communications</i> , <b>2021</b> , 12, 5459	17.4	40
645	A novel phosphonium ionic liquid electrolyte enabling high-voltage and high-energy positive electrode materials in lithium-metal batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 826-835	19.4	4
644	A mismatch electrical conductivity skeleton enables dendrite-free and high stability lithium metal anode. <i>Nano Energy</i> , <b>2021</b> , 89, 106421	17.1	0
643	On the nanoscopic structural heterogeneity of liquid -alkyl carboxylic acids. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 20282-20287	3.6	1
642	Disclosing the hierarchical structure of ionic liquid mixtures by multiscale computational methods <b>2021</b> , 1-67		0

641	Titanium Activation in Prussian Blue Based Electrodes for Na-ion Batteries: A Synthesis and Electrochemical Study. <i>Batteries</i> , <b>2021</b> , 7, 5	5.7	4
640	Molecular Insight into Microstructural and Dynamical Heterogeneities in Magnesium Ionic Liquid Electrolytes.. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 105-111	6.4	0
639	Understanding the Role of Nanoparticles in PEO-Based Hybrid Polymer Electrolytes for Solid-State Lithium Polymer Batteries. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27907-27915	3.8	10
638	Structural Effects of Anomalous Current Densities on Manganese Hexacyanoferrate for Li-Ion Batteries. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7573	2.6	
637	The Role of Batteries for the Successful Transition to Renewable Energy Sources <b>2020</b> , 1-9		0
636	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000089	21.8	64
635	Work Function Evolution in Li Anode Processing. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000520	21.8	17
634	Magnetic Resonance Imaging and Molecular Dynamics Characterization of Ionic Liquid in Poly(ethylene oxide)-Based Polymer Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23800-23814	21.8	14
633	Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000783	21.8	20
632	The Potential Role of Reactive Metals for a Clean Energy Transition. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001002	21.8	9
631	Structural Investigation of Quaternary Layered Oxides upon Na-Ion Deinsertion. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 7408-7414	5.1	3
630	Evaluation of counter and reference electrodes for the investigation of Ca battery materials. <i>Journal of Power Sources Advances</i> , <b>2020</b> , 2, 100008	3.3	6
629	Sodium Induced Morphological Changes of Carbon Coated TiO2 Anatase Nanoparticles - High-Performance Materials for Na-Ion Batteries. <i>MRS Advances</i> , <b>2020</b> , 5, 2221-2229	0.7	2
628	Reactive Metals as Energy Storage and Carrier Media: Use of Aluminum for Power Generation in Fuel Cell-Based Power Plants. <i>Energy Technology</i> , <b>2020</b> , 8, 2000233	3.5	2
627	Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32797-32805	9.5	10
626	High-Voltage Operation of a VO Cathode in a Concentrated Gel Polymer Electrolyte for High-Energy Aqueous Zinc Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15305-15312	9.5	24
625	Determining Realistic Electrochemical Stability Windows of Electrolytes for Electrical Double-Layer Capacitors. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 698-707	5.6	19
624	Artificial Solid Electrolyte Interphases for Lithium Metal Electrodes by Wet Processing: The Role of Metal Salt Concentration and Solvent Choice. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32851-32862	9.5	15

623	Alkoxy-functionalized ionic liquid electrolytes: understanding ionic coordination of calcium ion speciation for the rational design of calcium electrolytes. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2559-2569	35.4	15
622	Influence of Carbonate-Based Additives on the Electrochemical Performance of Si NW Anodes Cycled in an Ionic Liquid Electrolyte. <i>Nano Letters</i> , <b>2020</b> , 20, 7011-7019	11.5	9
621	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. <i>Small</i> , <b>2020</b> , 16, e2000279	11	41
620	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903780	21.8	61
619	Co-Crosslinked Water-Soluble Biopolymers as a Binder for High-Voltage LiNi Mn O  Graphite Lithium-Ion Full Cells. <i>ChemSusChem</i> , <b>2020</b> , 13, 2650-2660	8.3	15
618	High loading CuS-based cathodes for all-solid-state lithium sulfur batteries with enhanced volumetric capacity. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 61-68	19.4	28
617	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. <i>Journal of Power Sources</i> , <b>2020</b> , 449, 227594	8.9	29
616	A Comparative Review of Electrolytes for Organic-Material-Based Energy-Storage Devices Employing Solid Electrodes and Redox Fluids. <i>ChemSusChem</i> , <b>2020</b> , 13, 2205-2219	8.3	32
615	Good practice guide for papers on batteries for the Journal of Power Sources. <i>Journal of Power Sources</i> , <b>2020</b> , 452, 227824	8.9	15
614	Gelified acetate-based water-in-salt electrolyte stabilizing hexacyanoferrate cathode for aqueous potassium-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 30, 196-205	19.4	26
613	Anion exchange membrane electrolyte preserving inverse Ia3d bicontinuous cubic phase: Effect of microdomain morphology on selective ion transport. <i>Journal of Membrane Science</i> , <b>2020</b> , 605, 118113	9.6	8
612	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
611	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. <i>Journal of Power Sources</i> , <b>2020</b> , 459, 228073	8.9	59
610	Sodium Biphenyl as Anolyte for Sodium Seawater Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001249	15.6	9
609	Crystal engineering of TMPOx-coated LiNi0.5Mn1.5O4 cathodes for high-performance lithium-ion batteries. <i>Materials Today</i> , <b>2020</b> , 39, 127-136	21.8	19
608	Partially Oxidized Cellulose grafted with Polyethylene Glycol mono-Methyl Ether (m-PEG) as Electrolyte Material for Lithium Polymer Battery. <i>Carbohydrate Polymers</i> , <b>2020</b> , 240, 116339	10.3	9
607	Solvent-Dictated Sodium Sulfur Redox Reactions: Investigation of Carbonate and Ether Electrolytes. <i>Energies</i> , <b>2020</b> , 13, 836	3.1	13
606	Lattice Compensation to Jahn-Teller Distortion in Na-Rich Manganese Hexacyanoferrate for Li-Ion Storage: An Operando Study. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5728-5733	6.1	10



605	Deriving Structure-Performance Relations of Chemically Modified Chitosan Binders for Sustainable High-Voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 155-164	5.6	10
604	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3697-3708	9.5	14
603	Transition Metal Oxide Anodes for Electrochemical Energy Storage in Lithium- and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902485	21.8	261
602	Effect of Electrolyte Additives on the LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> Surface Film Formation with Lithium and Graphite Negative Electrodes. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901500	4.6	18
601	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227636	8.9	21
600	Natural Polymers as Green Binders for High-Loading Supercapacitor Electrodes. <i>ChemSusChem</i> , <b>2020</b> , 13, 763-770	8.3	12
599	Unveiling and Amplifying the Benefits of Carbon-Coated Aluminum Current Collectors for Sustainable LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 218-230	6.1	13
598	Effect of Water and Alkali-Ion Content on the Structure of Manganese(II) Hexacyanoferrate(II) by a Joint Operando X-ray Absorption Spectroscopy and Chemometric Approach. <i>ChemSusChem</i> , <b>2020</b> , 13, 608-615	8.3	9
597	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
596	Electrochemical investigations of high-voltage Na <sub>4</sub> Ni <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> P <sub>2</sub> O <sub>7</sub> cathode for sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 17-24	2.6	11
595	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
594	Highly Concentrated KTFSI : Glyme Electrolytes for K/Bilayered-V <sub>2</sub> O <sub>5</sub> Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 261-267	5.6	18
593	Ionic liquid electrolytes for high-voltage, lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 479, 228799	9.1	33
592	Mechanistic Insights into the Lithiation and Delithiation of Iron-Doped Zinc Oxide: The Nucleation Site Model. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8206-8218	9.5	12
591	Cathode-Electrolyte Interphase in a LiTFSI/Tetraglyme Electrolyte Promoting the Cyclability of VO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54782-54790	9.5	7
590	Reducing Capacity and Voltage Decay of Co-Free Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquid-Based Electrolyte. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001830	21.8	17
589	Flexible and high temperature supercapacitor based on laser-induced graphene electrodes and ionic liquid electrolyte, a de-rated voltage analysis. <i>Electrochimica Acta</i> , <b>2020</b> , 357, 136838	6.7	23
588	High-energy lithium batteries based on single-ion conducting polymer electrolytes and Li[Ni <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> ]O <sub>2</sub> cathodes. <i>Nano Energy</i> , <b>2020</b> , 77, 105129	17.1	42

587	Revisiting the energy efficiency and (potential) full-cell performance of lithium-ion batteries employing conversion/alloying-type negative electrodes. <i>Journal of Power Sources</i> , <b>2020</b> , 473, 228583	8.9	10
586	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 77, 105176	17.1	21
585	Metal-Organic Framework Derived Fe <sub>7</sub> S <sub>8</sub> Nanoparticles Embedded in Heteroatom-Doped Carbon with Lithium and Sodium Storage Capability. <i>Small Methods</i> , <b>2020</b> , 4, 2000637	12.8	18
584	Energy and environmental aspects in recycling lithium-ion batteries: Concept of Battery Identity Global Passport. <i>Materials Today</i> , <b>2020</b> , 41, 304-315	21.8	69
583	Operando pH Measurements Decipher H <sup>+</sup> /Zn <sup>2+</sup> Intercalation Chemistry in High-Performance Aqueous Zn/V <sub>2</sub> O <sub>5</sub> Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2979-2986	20.1	58
582	Determination of the Volume Changes Occurring for Conversion/Alloying-Type Li-Ion Anodes upon Lithiation/Delithiation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8238-8245	6.4	7
581	Assessment on the Use of High Capacity Sn <sub>4</sub> P <sub>3</sub> /NHC Composite Electrodes for Sodium-Ion Batteries with Ether and Carbonate Electrolytes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004798	15.6	27
580	Initial lithiation of carbon-coated zinc ferrite anodes studied by in-situ X-ray absorption spectroscopy. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 175, 108468	2.5	3
579	Highlighting the Reversible Manganese Electroactivity in Na-Rich Manganese Hexacyanoferrate Material for Li- and Na-Ion Storage. <i>Small Methods</i> , <b>2020</b> , 4, 1900529	12.8	19
578	Structure rearrangements induced by lithium insertion in metal alloying oxide mixed spinel structure studied by x-ray absorption near-edge spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , <b>2020</b> , 136, 109172	3.9	9
577	Towards Advanced Sodium-Ion Batteries: Green, Low-Cost and High-Capacity Anode Compartment Encompassing Phosphorus/Carbon Nanocomposite as the Active Material and Aluminum as the Current Collector. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 080509	3.9	1
576	Scalable Synthesis of Microsized, Nanocrystalline Zn Fe O-C Secondary Particles and Their Use in Zn Fe O-C/LiNi Mn O Lithium-Ion Full Cells. <i>ChemSusChem</i> , <b>2020</b> , 13, 3504-3513	8.3	9
575	Synthesis and Operando Sodiation Mechanistic Study of Nitrogen-Doped Porous Carbon Coated Bimetallic Sulfide Hollow Nanocubes as Advanced Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902312	21.8	44
574	Elucidating the Effect of Iron Doping on the Electrochemical Performance of Cobalt-Free Lithium-Rich Layered Cathode Materials. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902445	21.8	33
573	Structural Study of Carbon-Coated TiO <sub>2</sub> Anatase Nanoparticles as High-Performance Anode Materials for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7142-7151	6.1	10
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571	A Comparison of Formation Methods for Graphite//LiFePO <sub>4</sub> Cells. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 240-247	3.47	14
570	Asymmetric ammonium-based ionic liquids as electrolyte components for safer, high-energy, electrochemical storage devices. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 1-9	19.4	15



569	Calcium vanadate sub-microfibers as highly reversible host cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 2265-2268	5.8	76
568	Role of Manganese in Lithium- and Manganese-Rich Layered Oxides Cathodes. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3359-3368	6.4	16
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566	A Post-Mortem Study of Stacked 16 Ah Graphite//LiFePO <sub>4</sub> Pouch Cells Cycled at 5 °C. <i>Batteries</i> , <b>2019</b> , 5, 45	5.7	5
565	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13096-13102	13	16
564	In Situ Investigation of Layered Oxides with Mixed Structures for Sodium-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1900239	12.8	10
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557	Unlocking Simultaneously the Temperature and Electrochemical Windows of Aqueous Phthalocyanine Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3773-3779	6.1	15
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554	Influence of Salt Concentration on the Properties of Sodium-Based Electrolytes. <i>Small Methods</i> , <b>2019</b> , 3, 1800208	12.8	27
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547	Ultra-thick battery electrodes for high gravimetric and volumetric energy density Li-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226923	8.9	30
546	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-rich Phases (Li <sub>1+x</sub> Al) on Capacity Fading. <i>ChemSusChem</i> , <b>2019</b> , 12, 2492-2492	8.3	1
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432	Leveraging valuable synergies by combining alloying and conversion for lithium-ion anodes. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3348-3367	35.4	153
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27	A Comparison of the Electrochromic Behavior and the Mechanical Properties of WO 3 and NiO x Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , <b>1991</b> , 138, 3182-3186	3.9	29
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23	The Intercalation of Lithium in Nickel Oxide and Its Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 3297-3300	3.9	76
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20	Characteristics of Electrochemically Synthesized Polymer Electrodes: VI . Kinetics of the Process of Polypyrrole Oxidation. <i>Journal of the Electrochemical Society</i> , <b>1989</b> , 136, 3729-3734	3.9	68
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10	Assessment and Progress of Polyanionic Cathodes in Aqueous Sodium Batteries. <i>Energy and Environmental Science</i> ,	35.4	6
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2	Guidelines for Air-Stable Lithium/Sodium Layered Oxide Cathodes1074-1086		2
1	Difluorobenzene-Based Locally Concentrated Ionic Liquid Electrolyte Enabling Stable Cycling of Lithium Metal Batteries with Nickel-Rich Cathode. <i>Advanced Energy Materials</i> ,2200862	21.8	7