

## 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.

48 papers	2,809 citations	26 h-index	51 g-index
51 ext. papers	3,457 ext. citations	13.7 avg, IF	5.22 L-index

#	Paper	IF	Citations
48	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free O <sub>3</sub> -Layered Metal Oxide Cathode. <i>Advanced Materials</i> , <b>2015</b> , 27, 6928-33	24	398
47	Air-Stable Copper-Based P2-NaCuFeMnO as a New Positive Electrode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , <b>2015</b> , 2, 1500031	13.6	218
46	Pitch-derived amorphous carbon as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 2, 139-145	19.4	203
45	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 3241-3249	11.5	163
44	Superior Na-Storage Performance of Low-Temperature-Synthesized Na <sub>3</sub> (VO(1-x)PO <sub>4</sub> ) <sub>2</sub> F(1+2x) (0 ≤ x ≤ 1) Nanoparticles for Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9911-6	16.4	149
43	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , <b>2015</b> , 1, e1500330	14.3	138
42	A Novel High Capacity Positive Electrode Material with Tunnel-Type Structure for Aqueous Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501005	21.8	127
41	Fully Oxidized NiFe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6027-6032	13.1	112
40	Quantification of Heterogeneous Degradation in Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900674	21.8	111
39	Chemomechanical interplay of layered cathode materials undergoing fast charging in lithium batteries. <i>Nano Energy</i> , <b>2018</b> , 53, 753-762	17.1	105
38	Fe-Based Tunnel-Type Na <sub>0.61</sub> [Mn <sub>0.27</sub> Fe <sub>0.34</sub> Ti <sub>0.39</sub> ]O <sub>2</sub> Designed by a New Strategy as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501156	21.8	100
37	Chemomechanical behaviors of layered cathode materials in alkali metal ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21859-21884	13	92
36	Machine-learning-revealed statistics of the particle-carbon/binder detachment in lithium-ion battery cathodes. <i>Nature Communications</i> , <b>2020</b> , 11, 2310	17.4	75
35	Deciphering the Cathode/Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801975	21.8	64
34	pH-regulative synthesis of Na <sub>3</sub> (VPO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> nanoflowers and their improved Na cycling stability. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7178-7184	13	60
33	Superior electrochemical performance of sodium-ion full-cell using poplar wood derived hard carbon anode. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 269-279	19.4	56
32	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9769-9776	9.6	54

31	A phase-transfer assisted solvo-thermal strategy for low-temperature synthesis of Na <sub>3</sub> (VO <sub>1-x</sub> PO <sub>4</sub> ) <sub>2</sub> F <sub>1+2x</sub> cathodes for sodium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 7160-3	5.8	51
30	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. <i>Nature Communications</i> , <b>2018</b> , 9, 2810	17.4	45
29	Sodium-Deficient O <sub>3</sub> -Na <sub>0.9</sub> [Ni <sub>0.4</sub> Mn <sub>x</sub> Ti <sub>0.6-x</sub> ]O <sub>2</sub> Layered-Oxide Cathode Materials for Sodium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 538-544	3.1	39
28	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23842-23850	9.5	38
27	High-performance N-methyl-N-propylpiperidinium bis(trifluoromethanesulfonyl)imide/poly(vinylidene fluoride-hexafluoropropylene) gel polymer electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 403, 127-136	8.9	34
26	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2496-2508	35.4	34
25	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO Cathode in Li-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12874-12882	9.5	33
24	Thermally driven mesoscale chemomechanical interplay in Li <sub>0.5</sub> Ni <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> cathode materials. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23055-23061	13	32
23	Superior Na-Storage Performance of Low-Temperature-Synthesized Na <sub>3</sub> (VO <sub>1-x</sub> PO <sub>4</sub> ) <sub>2</sub> F <sub>1+2x</sub> (0 ≤ x ≤ 1) Nanoparticles for Na-Ion Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10049-10054	3.6	28
22	Novel 1.5 V anode materials, ATiOPO <sub>4</sub> (A = NH <sub>4</sub> , K, Na), for room-temperature sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7141-7147	13	26
21	Enhancing surface oxygen retention through theory-guided doping selection in Li <sub>1-x</sub> NiO <sub>2</sub> for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23293-23303	13	20
20	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. <i>Matter</i> , <b>2021</b> , 4, 2013-2026	12.7	20
19	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37885-37891	9.5	19
18	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17487-17497	7.3	19
17	Water-Processable P <sub>2</sub> -Na <sub>0.67</sub> Ni <sub>0.22</sub> Cu <sub>0.11</sub> Mn <sub>0.56</sub> Ti <sub>0.11</sub> O <sub>2</sub> Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A251-A257	3.9	17
16	Surface transformation by a cocktail solvent enables stable cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2758-2766	13	17
15	Probing Dopant Redistribution, Phase Propagation, and Local Chemical Changes in the Synthesis of Layered Oxide Battery Cathodes. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002719	21.8	15
14	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1324-1332	20.1	13

13	Room Temperature to 150 °C Lithium Metal Batteries Enabled by a Rigid Molecular Ionic Composite Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003559	21.8	13
12	Understanding the critical chemistry to inhibit lithium consumption in lean lithium metal composite anodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16003-16011	13	12
11	Anthraquinone derivative as high-performance anode material for sodium-ion batteries using ether-based electrolytes. <i>Green Energy and Environment</i> , <b>2018</b> , 3, 63-70	5.7	11
10	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi <sub>0.045</sub> Cu <sub>0.185</sub> Fe <sub>0.265</sub> Mn <sub>0.505</sub> O <sub>2</sub> Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11428-11435	3.8	10
9	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102122	21.8	10
8	Defect and structural evolution under high-energy ion irradiation informs battery materials design for extreme environments. <i>Nature Communications</i> , <b>2020</b> , 11, 4548	17.4	9
7	A Self-Sodiophilic Carbon Host Promotes the Cyclability of Sodium Anode. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007556	15.6	6
6	X-ray Nanoimaging of Crystal Defects in Single Grains of Solid-State Electrolyte LiAlLaZrO. <i>Nano Letters</i> , <b>2021</b> , 21, 4570-4576	11.5	5
5	Alkali-Ion Storage Behaviour in Spinel Lithium Titanate Electrodes. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1678-1681	1.3	3
4	Docking MOF crystals on graphene support for highly selective electrocatalytic peroxide production. <i>Nano Research</i> , <b>2021</b> , 1-8	10	2
3	Tailoring Disordered/Ordered Phases to Revisit the Degradation Mechanism of High-Voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Spinel Cathode Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 2112279	15.6	2
2	Multifunctional Hybrid Nanomaterials for Energy Storage. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-2	3.2	1
1	Investigating Particle Size-Dependent Redox Kinetics and Charge Distribution in Disordered Rocksalt Cathodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 2110502	15.6	0