

Feifei Shi

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

6,081
citations

257450

24
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

6868
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. <i>Nano Letters</i> , 2017, 17, 1132-1139.	9.1	1,081
2	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. <i>Nature Nanotechnology</i> , 2019, 14, 705-711.	31.5	773
3	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramic nanowires. <i>Nature Energy</i> , 2017, 2, .	39.5	763
4	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. <i>Energy and Environmental Science</i> , 2017, 10, 580-592.	30.8	421
5	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 11550-11558.	13.7	398
6	Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. <i>Nature Energy</i> , 2019, 4, 664-670.	39.5	336
7	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1900858.	19.5	333
8	Vertically Aligned and Continuous Nanoscale Ceramic-Polymer Interfaces in Composite Solid Polymer Electrolytes for Enhanced Ionic Conductivity. <i>Nano Letters</i> , 2018, 18, 3829-3838.	9.1	268
9	Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. <i>Science Advances</i> , 2017, 3, eaao3170.	10.3	252
10	Strong texturing of lithium metal in batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12138-12143.	7.1	188
11	Engineering stable interfaces for three-dimensional lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat5168.	10.3	153
12	Lithium metal stripping beneath the solid electrolyte interphase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8529-8534.	7.1	150
13	An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <i>ACS Central Science</i> , 2018, 4, 260-267.	11.3	147
14	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2018, 18, 7060-7065.	9.1	121
15	Reversible and selective ion intercalation through the top surface of few-layer MoS ₂ . <i>Nature Communications</i> , 2018, 9, 5289.	12.8	119
16	Membrane-Free Zn/MnO ₂ Flow Battery for Large-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2020, 10, 1902085.	19.5	111
17	Transient Voltammetry with Ultramicroelectrodes Reveals the Electron Transfer Kinetics of Lithium Metal Anodes. <i>ACS Energy Letters</i> , 2020, 5, 701-709.	17.4	91
18	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019, 5, eaau5655.	10.3	79

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19	<i>In Situ</i> X-ray Absorption Spectroscopic Investigation of the Capacity Degradation Mechanism in Mg/S Batteries. Nano Letters, 2019, 19, 2928-2934.	9.1	63
20	An ultrathin ionomer interphase for high efficiency lithium anode in carbonate based electrolyte. Nature Communications, 2019, 10, 5824.	12.8	62
21	Reactivation of dead sulfide species in lithium polysulfide flow battery for grid scale energy storage. Nature Communications, 2017, 8, 462.	12.8	48
22	Direct electrochemical generation of supercooled sulfur microdroplets well below their melting temperature. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 765-770.	7.1	39
23	Manufacturing Strategies for Solid Electrolyte in Batteries. Frontiers in Energy Research, 2020, 8, .	2.3	38
24	Electrochemical Control of Copper Intercalation into Nanoscale Bi ₂ Se ₃ . Nano Letters, 2017, 17, 1741-1747.	9.1	34
25	A novel battery scheme: Coupling nanostructured phosphorus anodes with lithium sulfide cathodes. Nano Research, 2020, 13, 1383-1388.	10.4	13