

Jiang Cui

List of Publications by Year in descending order

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36
papers

2,482
citations

201575

27
h-index

360920

35
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docs citations

36
times ranked

3518
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ TEM Study on Conversion-Type Electrodes for Rechargeable Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2000699.	11.1	58
2	Polyimide separators for rechargeable batteries. <i>Journal of Energy Chemistry</i> , 2021, 58, 170-197.	7.1	82
3	Rational Exploration of Conversion-Alloying Reaction Based Anodes for High-Performance K-Ion Batteries. , 2021, 3, 406-413.		21
4	Origin of anomalous high-rate Na-ion electrochemistry in layered bismuth telluride anodes. <i>Matter</i> , 2021, 4, 1335-1351.	5.0	26
5	Revealing Cathode-Electrolyte Interface on Flower-Shaped $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Cathode through Cryogenic Electron Microscopy. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100072.	2.8	8
6	Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. <i>Energy Storage Materials</i> , 2021, 39, 305-346.	9.5	27
7	Dual-phase MoS_2 as a high-performance sodium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2114-2122.	5.2	160
8	Dendrite-free lithium metal and sodium metal batteries. <i>Energy Storage Materials</i> , 2020, 27, 522-554.	9.5	151
9	MoSe_2 nanosheets embedded in nitrogen/phosphorus co-doped carbon/graphene composite anodes for ultrafast sodium storage. <i>Journal of Power Sources</i> , 2020, 476, 228660.	4.0	28
10	Affinity-engineered carbon nanofibers as a scaffold for Na metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14757-14768.	5.2	22
11	Thin solid electrolyte interface on chemically bonded $\text{Sb}_2\text{Te}_3/\text{CNT}$ composite anodes for high performance sodium ion full cells. <i>Nano Energy</i> , 2020, 71, 104613.	8.2	38
12	Metal-organic framework-induced mesoporous carbon nanofibers as an ultrastable Na metal anode host. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10269-10282.	5.2	47
13	Facile Patterning of Laser-Induced Graphene with Tailored Li Nucleation Kinetics for Stable Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901796.	10.2	76
14	Orientation-Dependent Intercalation Channels for Lithium and Sodium in Black Phosphorus. <i>Advanced Materials</i> , 2019, 31, e1904623.	11.1	44
15	Ultrafast Li^+ Diffusion Kinetics of 2D Oxidized Phosphorus for Quasi-Solid-State Bendable Batteries with Exceptional Energy Densities. <i>Chemistry of Materials</i> , 2019, 31, 4113-4123.	3.2	17
16	Nitrogen-doped graphene fiber webs for multi-battery energy storage. <i>Nanoscale</i> , 2019, 11, 6334-6342.	2.8	38
17	Correlation between Li Plating Behavior and Surface Characteristics of Carbon Matrix toward Stable Li Metal Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1802777.	10.2	109
18	2D MoS_2 grown on biomass-based hollow carbon fibers for energy storage. <i>Applied Surface Science</i> , 2019, 469, 854-863.	3.1	79

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19	Ultrathin Sb ₂ S ₃ nanosheet anodes for exceptional pseudocapacitive contribution to multi-battery charge storage. <i>Energy Storage Materials</i> , 2019, 20, 36-45.	9.5	51
20	Understanding the roles of activated porous carbon nanotubes as sulfur support and separator coating for lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 268, 1-9.	2.6	61
21	Hierarchical MoS ₂ /Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5668-5677.	5.2	128
22	Revealing Pseudocapacitive Mechanisms of Metal Dichalcogenide SnS ₂ /Graphene@CNT Aerogels for High-Energy Na Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1702488.	10.2	135
23	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702267.	10.2	85
24	Highly conductive porous graphene/sulfur composite ribbon electrodes for flexible lithium-sulfur batteries. <i>Nanoscale</i> , 2018, 10, 21132-21141.	2.8	27
25	Chemical interactions between red P and functional groups in NiP ₃ /CNT composite anodes for enhanced sodium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20184-20194.	5.2	44
26	<i>In situ</i> TEM study of lithiation into a PPy coated \pm -MnO ₂ /graphene foam freestanding electrode. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1481-1488.	3.2	16
27	Novel 2D Sb ₂ S ₃ Nanosheet/CNT Coupling Layer for Exceptional Polysulfide Recycling Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800710.	10.2	93
28	Porous RuO ₂ nanosheet/CNT electrodes for DMSO-based Li-O ₂ and Li ion O ₂ batteries. <i>Energy Storage Materials</i> , 2017, 8, 110-118.	9.5	36
29	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. <i>Energy Storage Materials</i> , 2017, 9, 134-139.	9.5	19
30	Sb-doped SnO ₂ /graphene-CNT aerogels for high performance Li-ion and Na-ion battery anodes. <i>Energy Storage Materials</i> , 2017, 9, 85-95.	9.5	85
31	Atomic scale, amorphous FeOx/carbon nanofiber anodes for Li-ion and Na-ion batteries. <i>Energy Storage Materials</i> , 2017, 8, 10-19.	9.5	78
32	Recent progress in rational design of anode materials for high-performance Na-ion batteries. <i>Energy Storage Materials</i> , 2017, 7, 64-114.	9.5	211
33	Unveiling the Unique Phase Transformation Behavior and Sodiation Kinetics of 1D van der Waals Sb ₂ S ₃ Anodes for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602149.	10.2	152
34	Positive role of oxygen vacancy in electrochemical performance of CoMn ₂ O ₄ cathodes for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2017, 365, 134-147.	4.0	84
35	A high-performance lithium ion oxygen battery consisting of Li ₂ O ₂ cathode and lithiated aluminum anode with nafion membrane for reduced O ₂ crossover. <i>Nano Energy</i> , 2017, 40, 258-263.	8.2	35
36	Enhanced conversion reaction kinetics in low crystallinity SnO ₂ /CNT anodes for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10964-10973.	5.2	111