Zhiqiang Zhu

List of Publications by Year
in descending order

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		87843	175177
53	7,111	38	52
papers	citations	h-index	g-index

56	56	56	8231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pyrite FeS₂for high-rate and long-life rechargeable sodium batteries. Energy and Environmental Science, 2015, 8, 1309-1316.	15.6	628
2	Ultrasmall Sn Nanoparticles Embedded in Nitrogen-Doped Porous Carbon As High-Performance Anode for Lithium-Ion Batteries. Nano Letters, 2014, 14, 153-157.	4.5	538
3	Unique Cobalt Sulfide/Reduced Graphene Oxide Composite as an Anode for Sodiumâ€Ion Batteries with Superior Rate Capability and Long Cycling Stability. Small, 2016, 12, 1359-1368.	5.2	423
4	All-Solid-State Lithium Organic Battery with Composite Polymer Electrolyte and Pillar[5]quinone Cathode. Journal of the American Chemical Society, 2014, 136, 16461-16464.	6.6	375
5	All Organic Sodiumâ€Ion Batteries with Na₄C₈H₂O₆. Angewandte Chemie - International Edition, 2014, 53, 5892-5896.	7.2	363
6	Organic Li₄C₈H₂O₆ Nanosheets for Lithium-Ion Batteries. Nano Letters, 2013, 13, 4404-4409.	4.5	352
7	Na₃V₂(PO₄)₃@C coreâ€“shell nanocomposites for rechargeable sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 8668-8675.	5.2	348
8	Quasiâ€Solidâ€State Rechargeable Lithiumâ€Ion Batteries with a Calix[4]quinone Cathode and Gel Polymer Electrolyte. Angewandte Chemie - International Edition, 2013, 52, 9162-9166.	7.2	271
9	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO₂ Nanowire Composite. Advanced Materials, 2018, 30, 1704531.	11.1	270
10	Porous LiMn2O4 nanorods with durable high-rate capability for rechargeable Li-ion batteries. Energy and Environmental Science, 2011, 4, 3668.	15.6	264
11	Molecular Engineering with Organic Carbonyl Electrode Materials for Advanced Stationary and Redox Flow Rechargeable Batteries. Advanced Materials, 2017, 29, 1607007.	11.1	247
12	Highly stable and ultrafast electrode reaction of graphite for sodium ion batteries. Journal of Power Sources, 2015, 293, 626-634.	4.0	245
13	Rechargeable Lithium-Iodine Batteries with Iodine/Nanoporous Carbon Cathode. Nano Letters, 2015, 15, 5982-5987.	4.5	201
14	Investigation of effects of carbon coating on the electrochemical performance of Li4Ti5O12/C nanocomposites. Journal of Materials Chemistry A, 2013, 1, 9484.	5.2	194
15	Honeycombâ€Lanternâ€Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. Advanced Materials, 2018, 30, e1805468.	11.1	152
16	Fluoroethylene Carbonate Enabling a Robust LiFâ€rich Solid Electrolyte Interphase to Enhance the Stability of the MoS₂ Anode for Lithiumâ€Ion Storage. Angewandte Chemie - International Edition, 2018, 57, 3656-3660.	7.2	149
17	Dielectric Polarization in Inverse Spinelâ€Structured Mg₂TiO₄ Coating to Suppress Oxygen Evolution of Liâ€Rich Cathode Materials. Advanced Materials, 2020, 32, e2000496.	11.1	134
18	Aqueous Electrolytes with Hydrophobic Organic Cosolvents for Stabilizing Zinc Metal Anodes. ACS Nano, 2022, 16, 9667-9678.	7.3	126

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19	Lowering Charge Transfer Barrier of LiMn₂O₄ via Nickel Surface Doping To Enhance Li⁺ Intercalation Kinetics at Subzero Temperatures. Journal of the American Chemical Society, 2019, 141, 14038-14042.	6.6	125
20	Reviewâ€"Advanced Carbon-Supported Organic Electrode Materials for Lithium (Sodium)-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2393-A2405.	1.3	114
21	FeS₂ microspheres with an ether-based electrolyte for high-performance rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 12898-12904.	5.2	111
22	Engineering zincophilic sites on Zn surface via plant extract additives for dendrite-free Zn anode. Energy Storage Materials, 2022, 44, 408-415.	9.5	95
23	The disodium salt of 2,5-dihydroxy-1,4-benzoquinone as anode material for rechargeable sodium ion batteries. Chemical Communications, 2015, 51, 1446-1448.	2.2	91
24	Identifying the Origin and Contribution of Surface Storage in TiO₂(B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. Advanced Materials, 2018, 30, e1802200.	11.1	90
25	Reducing the Charge Carrier Transport Barrier in Functionally Layerâ€Graded Electrodes. Angewandte Chemie - International Edition, 2017, 56, 14847-14852.	7.2	88
26	Micro-nano structured Ni-MOFs as high-performance cathode catalyst for rechargeable Liâ€"O₂ batteries. Nanoscale, 2015, 7, 11833-11840.	2.8	69
27	Ice-templated preparation and sodium storage of ultrasmall SnO2 nanoparticles embedded in three-dimensional graphene. Nano Research, 2015, 8, 184-192.	5.8	68
28	Decimal Solvent-Based High-Entropy Electrolyte Enabling the Extended Survival Temperature of Lithium-Ion Batteries to â¯130ÂÂ°C. CCS Chemistry, 2021, 3, 1245-1255.	4.6	65
29	Approaching the Lithiation Limit of MoS₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. Angewandte Chemie - International Edition, 2019, 58, 3521-3526.	7.2	62
30	Interfacial Latticeâ€Strainâ€Driven Generation of Oxygen Vacancies in an Aerobicâ€Annealed TiO₂(B) Electrode. Advanced Materials, 2019, 31, e1906156.	11.1	53
31	Turning the Byproduct Zn₄(OH)₆SO₄Â·xH₂O into a Uniform Solid Electrolyte Interphase to Stabilize Aqueous Zn Anode. , 2021, 3, 1819-1825.		50
32	Three-functional ether-based co-solvents for suppressing water-induced parasitic reactions in aqueous Zn-ion batteries. Energy Storage Materials, 2022, 49, 445-453.	9.5	49
33	Correlating the Peukertâ€™s Constant with Phase Composition of Electrode Materials in Fast Lithiation Processes. , 2019, 1, 519-525.		45
34	Preparation and electrochemical performance of copper foam-supported amorphous silicon thin films for rechargeable lithium-ion batteries. Journal of Alloys and Compounds, 2011, 509, 2919-2923.	2.8	44
35	Artificial interphase engineering of electrode materials to improve the overall performance of lithium-ion batteries. Nano Research, 2017, 10, 4115-4138.	5.8	43
36	Deep Cycling for Highâ€Capacity Liâ€Ion Batteries. Advanced Materials, 2021, 33, e2004998.	11.1	43

#	Article	IF	Citations
37	Mechanically Reinforced Localized Structure Design to Stabilize Solidâ€“Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO₂ Nanotubes. Small, 2020, 16, e2002094.	5.2	41
38	Fluoroethylene Carbonate Enabling a Robust LiFâ€rich Solid Electrolyte Interphase to Enhance the Stability of the MoS₂ Anode for Lithiumâ€Ion Storage. Angewandte Chemie, 2018, 130, 3718-3722.	1.6	40
39	Unraveling the Formation of Amorphous MoS₂ Nanograins during the Electrochemical Delithiation Process. Advanced Functional Materials, 2019, 29, 1904843.	7.8	38
40	Ordered spinel LiNi0.5Mn1.5O4 nanorods for high-rate lithium-ion batteries. Journal of Electroanalytical Chemistry, 2013, 688, 113-117.	1.9	31
41	The enhanced hydrogen storage of micro-nanostructured hybrids of Mg(BH₄)₂â€“carbon nanotubes. Nanoscale, 2015, 7, 18305-18311.	2.8	30
42	Reducing the Charge Carrier Transport Barrier in Functionally Layerâ€Graded Electrodes. Angewandte Chemie, 2017, 129, 15043-15048.	1.6	23
43	Artificial interphase engineering to stabilize aqueous zinc metal anodes. Nanoscale, 2021, 13, 19828-19839.	2.8	23
44	Super-zincophilic additive induced interphase modulation enables long-life Zn anodes at high current density and areal capacity. Journal of Materials Chemistry A, 2022, 10, 10132-10138.	5.2	20
45	Approaching the Lithiation Limit of MoS₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. Angewandte Chemie, 2019, 131, 3559-3564.	1.6	18
46	Hygroscopic Chemistry Enables Fireâ€Tolerant Supercapacitors with a Selfâ€Healable â€œSoluteâ€inâ€Airâ€• Electrolyte. Advanced Materials, 2022, 34, e2109857.	11.1	12
47	Uniform spatial distribution of a nanostructured Ag/AgCl plasmonic photocatalyst and its segregative membrane towards visible light-driven photodegradation. CrystEngComm, 2016, 18, 3725-3733.	1.3	10
48	Twoâ€inâ€one shell configuration for bimetal selenides toward fast sodium storage within broadened voltage windows. , 2022, 4, 586-597.		10
49	Electrode Materials: Interfacial Latticeâ€Strainâ€Driven Generation of Oxygen Vacancies in an Aerobicâ€Annealed TiO₂(B) Electrode (Adv. Mater. 52/2019). Advanced Materials, 2019, 31, 1970367.	11.1	9
50	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodiumâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 101-107.	2.4	8
51	Enabling the Highâ€Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase. Small Methods, 2022, 6, e2100920.	4.6	5
52	Enabling the Highâ€Voltage Operation of Layered Ternary Oxide Cathodes via Thermally Tailored Interphase (Small Methods 4/2022). Small Methods, 2022, 6, .	4.6	1
53	Siliconâ€Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solidâ€“Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO₂ Nanotubes (Small 30/2020). Small, 2020, 16, 2070169.	5.2	0