Zhe Hu

List of Publications by Year
in descending order

83 papers	12,370 citations	39113 52 h-index	64407 83 g-index
87 all docs	87 docs citations	87 times ranked	12794 citing authors

#	Article	IF	Citations
1	Novel Li₃VO₄ Nanostructures Grown in Highly Efficient Microwave Irradiation Strategy and Their Inâ€Situ Lithium Storage Mechanism. Advanced Science, 2022, 9, e2103493.	5.6	23
2	Ice-Assisted Synthesis of Highly Crystallized Prussian Blue Analogues for All-Climate and Long-Calendar-Life Sodium Ion Batteries. Nano Letters, 2022, 22, 1302-1310.	4.5	68
3	Enhanced photoluminescence of hollow CaWO₄ microspheres: the fast fabrication, structural manipulation, and exploration of the growth mechanism. Materials Chemistry Frontiers, 2022, 6, 1046-1055.	3.2	4
4	Effect of Eliminating Water in Prussian Blue Cathode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	66
5	Synthesis of carbon-modified cobalt disphosphide as anode for sodium-ion storage. Electrochimica Acta, 2022, 423, 140611.	2.6	4
6	Hysteresis Induced by Incomplete Cationic Redox in Liâ€Rich 3dâ€Transitionâ€Metal Layered Oxides Cathodes. Advanced Science, 2022, 9, .	5.6	7
7	A NASICONâ€typed Na₄Mn_{0.5}Fe_{0.5}Al(PO₄)₃ cathode for lowâ€cost and highâ€energy sodiumâ€ion batteries. , 2022, 1, 49-58.		18
8	Hard Carbon Anodes: Fundamental Understanding and Commercial Perspectives for Naâ€Ion Batteries beyond Liâ€Ion and Kâ€Ion Counterparts. Advanced Energy Materials, 2021, 11, .	10.2	282
9	Inâ€Situ Electrochemically Activated Surface Vanadium Valence in V₂C MXene to Achieve High Capacity and Superior Rate Performance for Znâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2008033.	7.8	156
10	Sodium transition metal oxides: the preferred cathode choice for future sodium-ion batteries?. Energy and Environmental Science, 2021, 14, 158-179.	15.6	224
11	Recent Progress on Layered Cathode Materials for Nonaqueous Rechargeable Magnesium Batteries. Small, 2021, 17, e1902767.	5.2	55
12	Two-Dimensional Material-Based Heterostructures for Rechargeable Batteries. Cell Reports Physical Science, 2021, 2, 100286.	2.8	30
13	CuP2 as high-capacity and long-cycle-life anode for potassium-ion batteries. Journal of Energy Chemistry, 2021, 63, 246-252.	7.1	18
14	Ultraâ€High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. Angewandte Chemie, 2021, 133, 11582-11587.	1.6	17
15	Nonâ€Noble Metalâ€Based Catalysts Applied to Hydrogen Evolution from Hydrolysis of Boron Hydrides. Small Structures, 2021, 2, 2000135.	6.9	19
16	Ultraâ€High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. Angewandte Chemie - International Edition, 2021, 60, 11481-11486.	7.2	124
17	Facile Synthesis of Birnessite Î´-MnO₂ and Carbon Nanotube Composites as Effective Catalysts for Li-CO₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16585-16593.	4.0	29
18	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 13050-13056.	7.2	90

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19	A Lowâ€Strain Potassiumâ€Rich Prussian Blue Analogue Cathode for High Power Potassiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13160-13166.	1.6	16
20	Hierarchical Ti₃C₂T_{<i>x</i>} MXene/Carbon Nanotubes for Low Overpotential and Long-Life Li-CO₂ Batteries. ACS Nano, 2021, 15, 8407-8417.	7.3	54
21	In Situ Lattice Tunnel Distortion of Vanadium Trioxide for Enhancing Zinc Ion Storage. Advanced Energy Materials, 2021, 11, 2100973.	10.2	74
22	Structural engineering of electrode materials to boost high-performance sodium-ion batteries. Cell Reports Physical Science, 2021, 2, 100551.	2.8	19
23	Developing better ester- and ether-based electrolytes for potassium-ion batteries. Chemical Science, 2021, 12, 2345-2356.	3.7	43
24	Cathode materials for high-performance potassium-ion batteries. Cell Reports Physical Science, 2021, 2, 100657.	2.8	9
25	Alkali and alkaline-earth metal ionâ€“solvent co-intercalation reactions in nonaqueous rechargeable batteries. Chemical Science, 2021, 12, 15206-15218.	3.7	6
26	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 2470-2477.	1.6	26
27	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 2449-2456.	7.2	101
28	Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie - International Edition, 2020, 59, 5159-5164.	7.2	142
29	Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie, 2020, 132, 5197-5202.	1.6	19
30	Designing Advanced Vanadiumâ€Based Materials to Achieve Electrochemically Active Multielectron Reactions in Sodium/Potassiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2002244.	10.2	79
31	Multiregion Janus-Featured Cobalt Phosphide-Cobalt Composite for Highly Reversible Room-Temperature Sodium-Sulfur Batteries. ACS Nano, 2020, 14, 10284-10293.	7.3	81
32	Single-atom Ru anchored in nitrogen-doped MXene (Ti₃C₂T_x) as an efficient catalyst for the hydrogen evolution reaction at all pH values. Journal of Materials Chemistry A, 2020, 8, 24710-24717.	5.2	102
33	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 12174-12181.	1.6	20
34	The Cathode Choice for Commercialization of Sodiumâ€Ion Batteries: Layered Transition Metal Oxides versus Prussian Blue Analogs. Advanced Functional Materials, 2020, 30, 1909530.	7.8	276
35	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	5.8	283
36	Hierarchically Porous MoS₂â€“Carbon Hollow Rhomboids for Superior Performance of the Anode of Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10402-10409.	4.0	36

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37	Manipulating Molecular Structure and Morphology to Invoke Highâ€Performance Sodium Storage of Copper Phosphide. Advanced Energy Materials, 2020, 10, 1903542.	10.2	38
38	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12076-12083.	7.2	78
39	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 13017-13024.	1.6	28
40	Understanding Highâ€Rate K⁺â€Solvent Coâ€Intercalation in Natural Graphite for Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12917-12924.	7.2	112
41	Understanding rhombohedral iron hexacyanoferrate with three different sodium positions for high power and long stability sodium-ion battery. Energy Storage Materials, 2020, 30, 42-51.	9.5	62
42	Ultrathin 2D TiS₂ Nanosheets for High Capacity and Longâ€Life Sodium Ion Batteries. Advanced Energy Materials, 2019, 9, 1803210.	10.2	100
43	General Ï€â€Electronâ€Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Singleâ€Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 11868-11873.	7.2	229
44	General Ï€â€Electronâ€Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Singleâ€Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. Angewandte Chemie, 2019, 131, 11994-11999.	1.6	28
45	P2-type Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ as a cathode material with high-rate and long-life for sodium ion storage. Journal of Materials Chemistry A, 2019, 7, 9215-9221.	5.2	102
46	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480.	5.8	260
47	Recent Progress of Layered Transition Metal Oxide Cathodes for Sodiumâ€Ion Batteries. Small, 2019, 15, e1805381.	5.2	246
48	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. Nature Communications, 2019, 10, 5203.	5.8	202
49	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1701415.	10.2	436
50	All Carbon Dual Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 35978-35983.	4.0	93
51	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. Journal of the American Chemical Society, 2018, 140, 13644-13653.	6.6	430
52	A Novel Graphene Oxide Wrapped Na₂Fe₂(SO₄)₃/C Cathode Composite for Long Life and High Energy Density Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1800944.	10.2	101
53	Progress and Future Perspectives on Li(Na)â€"CO₂ Batteries. Advanced Sustainable Systems, 2018, 2, 1800060.	2.7	54
54	Advances and Challenges in Metal Sulfides/Selenides for Nextâ€Generation Rechargeable Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700606.	11.1	726

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55	Carbonâ€Coated Na_{3.32}Fe_{2.34}(P₂O₇)₂ Cathode Material for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605535.	11.1	161
56	Multiangular Rod-Shaped Na_{0.44}MnO₂ as Cathode Materials with High Rate and Long Life for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3644-3652.	4.0	107
57	Atomicâ€Scale CoO<i>_x</i> Species in Metalâ€“Organic Frameworks for Oxygen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1702546.	7.8	327
58	Understanding Performance Differences from Various Synthesis Methods: A Case Study of Spinel LiCr_{0.2}Ni_{0.4}Mn_{1.4}O₄ Cathode Material. ACS Applied Materials & Interfaces, 2016, 8, 26051-26057.	4.0	12
59	Effects of Carbon Content on the Electrochemical Performances of MoS₂â€“C Nanocomposites for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22168-22174.	4.0	46
60	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 12822-12826.	7.2	394
61	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 13014-13018.	1.6	268
62	MoS₂ with an intercalation reaction as a long-life anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2016, 3, 532-535.	3.0	70
63	Highly stable and ultrafast electrode reaction of graphite for sodium ion batteries. Journal of Power Sources, 2015, 293, 626-634.	4.0	245
64	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
65	Pyrite FeS₂for high-rate and long-life rechargeable sodium batteries. Energy and Environmental Science, 2015, 8, 1309-1316.	15.6	628
66	FeSe₂ Microspheres as a Highâ€Performance Anode Material for Naâ€Ion Batteries. Advanced Materials, 2015, 27, 3305-3309.	11.1	581
67	Growth of MoS₂@C nanobowls as a lithium-ion battery anode material. RSC Advances, 2015, 5, 92506-92514.	1.7	54
68	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. Chemical Society Reviews, 2015, 44, 699-728.	18.7	740
69	MoS₂ Nanoflowers with Expanded Interlayers as Highâ€Performance Anodes for Sodiumâ€Ion Batteries. Angewandte Chemie, 2014, 126, 13008-13012.	1.6	310
70	Inorganic & organic materials for rechargeable Li batteries with multi-electron reaction. Science China Materials, 2014, 57, 42-58.	3.5	78
71	Porous CuO nanowires as the anode of rechargeable Na-ion batteries. Nano Research, 2014, 7, 199-208.	5.8	233
72	Li_{2âˆ’<i>x</i>}Fe_{1âˆ’<i>x</i>}Al_{<i>x</i>}SiO₄/C Nanocomposites Cathodes for Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 355-361.	1.8	11

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73	Size effect of lithium peroxide on charging performance of Liâ€“O₂batteries. Nanoscale, 2014, 6, 177-180.	2.8	80
74	MoS₂ Nanoflowers with Expanded Interlayers as Highâ€Performance Anodes for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 12794-12798.	7.2	670
75	Na₃V₂(PO₄)₃@C coreâ€“shell nanocomposites for rechargeable sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 8668-8675.	5.2	348
76	All Organic Sodiumâ€Ion Batteries with Na₄C₈H₂O₆. Angewandte Chemie - International Edition, 2014, 53, 5892-5896.	7.2	363
77	Hydrothermal synthesis of spindle-like Li2FeSiO4-C composite as cathode materials for lithium-ion batteries. Journal of Energy Chemistry, 2014, 23, 274-281.	7.1	19
78	Ultrasmall Li2S Nanoparticles Anchored in Graphene Nanosheets for High-Energy Lithium-Ion Batteries. Scientific Reports, 2014, 4, 6467.	1.6	122
79	Li3V2(PO4)3@C coreâ€“shell nanocomposite as a superior cathode material for lithium-ion batteries. Nanoscale, 2013, 5, 6485.	2.8	130
80	Li2MnSiO4@C nanocomposite as a high-capacity cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 12650.	5.2	41
81	Intergrown Li2FeSiO4Â·LiFePO4â€“C nanocomposites as high-capacity cathode materials for lithium-ion batteries. Chemical Communications, 2013, 49, 3040.	2.2	73
82	Functional porous carbon-based composite electrode materials for lithium secondary batteries. Journal of Energy Chemistry, 2013, 22, 214-225.	7.1	51
83	Spindle-Like LiMnPO₄ Assembled by Nanorods with Different Crystallographic Orientations as the Cathode of Lithium-Ion Batteries. Science of Advanced Materials, 2013, 5, 1676-1685.	0.1	6