Junnan Hao

List of Publications by Year
in descending order

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56	7,379	94269	149479
papers	citations	37 h-index	56 g-index

56	56	56	4435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Inâ€Depth Study of Zn Metal Surface Chemistry for Advanced Aqueous Znâ€Ion Batteries. Advanced Materials, 2020, 32, e2003021.	11.1	707
2	Designing Dendriteâ€Free Zinc Anodes for Advanced Aqueous Zinc Batteries. Advanced Functional Materials, 2020, 30, 2001263.	7.8	598
3	Recent progress and perspectives on aqueous Zn-based rechargeable batteries with mild aqueous electrolytes. Energy Storage Materials, 2019, 20, 410-437.	9.5	525
4	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Lowâ€Cost Antisolvents. Angewandte Chemie - International Edition, 2021, 60, 7366-7375.	7.2	516
5	Electrolyte Design for In Situ Construction of Highly Zn²⁺â€Conductive Solid Electrolyte Interphase to Enable Highâ€Performance Aqueous Znâ€Ion Batteries under Practical Conditions. Advanced Materials, 2021, 33, e2007416.	11.1	484
6	Deeply understanding the Zn anode behaviour and corresponding improvement strategies in different aqueous Zn-based batteries. Energy and Environmental Science, 2020, 13, 3917-3949.	15.6	480
7	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. Energy and Environmental Science, 2021, 14, 5669-5689.	15.6	314
8	Bio-inspired design of anin situmultifunctional polymeric solidâ€“electrolyte interphase for Zn metal anode cycling at 30 mA cm^{â^'2}and 30 mA h cm^{â^'2}. Energy and Environmental Science, 2021, 14, 5947-5957.	15.6	289
9	Toward Highâ€Performance Hybrid Znâ€Based Batteries via Deeply Understanding Their Mechanism and Using Electrolyte Additive. Advanced Functional Materials, 2019, 29, 1903605.	7.8	259
10	Dualâ€Function Electrolyte Additive for Highly Reversible Zn Anode. Advanced Energy Materials, 2021, 11, 2102010.	10.2	246
11	Yolkâ€“Shell Structured FeP@C Nanoboxes as Advanced Anode Materials for Rechargeable Lithiumâ€/Potassiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1808291.	7.8	232
12	Toward a Reversible Mn⁴⁺/Mn²⁺ Redox Reaction and Dendriteâ€Free Zn Anode in Nearâ€Neutral Aqueous Zn/MnO₂ Batteries via Salt Anion Chemistry. Advanced Energy Materials, 2020, 10, 1904163.	10.2	221
13	Anion Vacancies Regulating Endows MoSSe with Fast and Stable Potassium Ion Storage. ACS Nano, 2019, 13, 11843-11852.	7.3	210
14	Heterostructure Manipulation via in Situ Localized Phase Transformation for High-Rate and Highly Durable Lithium Ion Storage. ACS Nano, 2018, 12, 10430-10438.	7.3	138
15	Engineering Textile Electrode and Bacterial Cellulose Nanofiber Reinforced Hydrogel Electrolyte to Enable Highâ€Performance Flexible Allâ€Solidâ€State Supercapacitors. Advanced Energy Materials, 2021, 11, 2003010.	10.2	128
16	Large-Scale Electric-Field Confined Silicon with Optimized Charge-Transfer Kinetics and Structural Stability for High-Rate Lithium-Ion Batteries. ACS Nano, 2020, 14, 7066-7076.	7.3	114
17	Three-dimensional graphene layers prepared by a gas-foaming method for supercapacitor applications. Carbon, 2015, 94, 879-887.	5.4	107
18	Three-dimensional nitrogen-doped graphene hydrogels prepared via hydrothermal synthesis as high-performance supercapacitor materials. Electrochimica Acta, 2016, 194, 136-142.	2.6	107

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19	Structural Engineering of Hierarchical Microâ€nanostructured Geâ€“C Framework by Controlling the Nucleation for Ultralongâ€Life Li Storage. Advanced Energy Materials, 2019, 9, 1900081.	10.2	99
20	Polyiodide Confinement by Starch Enables Shuttleâ€Free Znâ€“Iodine Batteries. Advanced Materials, 2022, 34, e2201716.	11.1	98
21	Recent progress and perspectives on dual-ion batteries. EnergyChem, 2019, 1, 100004.	10.1	93
22	Dehydrationâ€Triggered Ionic Channel Engineering in Potassium Niobate for Li/Kâ€Ion Storage. Advanced Materials, 2020, 32, e2000380.	11.1	85
23	Studying the Conversion Mechanism to Broaden Cathode Options in Aqueous Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 25114-25121.	7.2	84
24	Three-Dimensional Porous Cobalt Phosphide Nanocubes Encapsulated in a Graphene Aerogel as an Advanced Anode with High Coulombic Efficiency for High-Energy Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5373-5379.	4.0	78
25	Metal organic framework derived hollow NiS@C with S-vacancies to boost high-performance supercapacitors. Chemical Engineering Journal, 2021, 419, 129643.	6.6	77
26	Effects of carbon additives on the performance of negative electrode of lead-carbon battery. Electrochimica Acta, 2015, 151, 89-98.	2.6	76
27	Harnessing Plasmaâ€Assisted Doping Engineering to Stabilize Metallic Phase MoSe₂for Fast and Durable Sodiumâ€Ion Storage. Advanced Materials, 2022, 34, e2200397.	11.1	70
28	Interfacing MXene flakes on fiber fabric as an ultrafast electron transport layer for high performance textile electrodes. Energy Storage Materials, 2020, 33, 62-70.	9.5	67
29	Highly porous, low band-gap Ni_xMn_{3â^'x}O₄(0.55 â‰¤xâ‰¤ 1.2) spinel nanoparticles within situcoated carbon as advanced cathode materials for zinc-ion batteries. Journal of Materials Chemistry A, 2019, 7, 17854-17866.	5.2	65
30	Achieving Highâ€Performance Metal Phosphide Anode for Potassium Ion Batteries via Concentrated Electrolyte Chemistry. Advanced Energy Materials, 2021, 11, 2003346.	10.2	62
31	Boosting the energy density of supercapacitors by designing both hollow NiO nanoparticles/nitrogen-doped carbon cathode and nitrogen-doped carbon anode from the same precursor. Chemical Engineering Journal, 2022, 431, 134083.	6.6	62
32	Face-to-face self-assembly graphene/MnO2 nanocomposites for supercapacitor applications using electrochemically exfoliated graphene. Electrochimica Acta, 2015, 167, 412-420.	2.6	59
33	Catalytic Oxidation of K₂S via Atomic Co and Pyridinic N Synergy in Potassiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2021, 143, 16902-16907.	6.6	53
34	Crystallographicâ€Siteâ€Specific Structural Engineering Enables Extraordinary Electrochemical Performance of Highâ€Voltage LiNi_{0.5}Mn_{1.5}O₄ Spinel Cathodes for Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2101413.	11.1	52
35	Supercapacitive behavior of electrostatic self-assembly reduced graphene oxide/CoAl-layered double hydroxides nanocomposites. Journal of Alloys and Compounds, 2016, 669, 146-155.	2.8	50
36	Designing a hybrid electrode toward high energy density with a staged Li ⁺ and PF ₆ ^{â^'} deintercalation/intercalation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2815-2823.	3.3	50

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37	Ultrathin Fewâ€Layer GeP Nanosheets via Lithiationâ€Assisted Chemical Exfoliation and Their Application in Sodium Storage. Advanced Energy Materials, 2020, 10, 1903826.	10.2	41
38	3Dâ€Printed Wearable Electrochemical Energy Devices. Advanced Functional Materials, 2022, 32, 2103092.	7.8	37
39	Hollow NiCoP nanocubes derived from a Prussian blue analogue self-template for high-performance supercapacitors. Journal of Alloys and Compounds, 2022, 893, 162344.	2.8	37
40	Anchoring ultrafine Co3O4 grains on reduced oxide graphene by dual-template nanocasting strategy for high-energy solid state supercapacitor. Electrochimica Acta, 2019, 326, 134965.	2.6	35
41	Studying the Conversion Mechanism to Broaden Cathode Options in Aqueous Zincâ€Ion Batteries. Angewandte Chemie, 2021, 133, 25318-25325.	1.6	34
42	MnO 2 -introduced-tunnels strategy for the preparation of nanotunnel inserted hierarchical-porous carbon as electrode material for high-performance supercapacitors. Chemical Engineering Journal, 2017, 320, 634-643.	6.6	33
43	Synthesis of three dimensional N&S co-doped rGO foam with high capacity and long cycling stability for supercapacitors. Journal of Colloid and Interface Science, 2019, 537, 57-65.	5.0	29
44	Preparation of Lithium Titanate/Reduced Graphene Oxide Composites with Three-Dimensional â€œFishnet-Likeâ€•Conductive Structure via a Gas-Foaming Method for High-Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 42883-42892.	4.0	25
45	Bio-templated fabrication of three-dimensional network activated carbons derived from mycelium pellets for supercapacitor applications. Scientific Reports, 2018, 8, 562.	1.6	24
46	Metal organic frameworks derived Ni-doped hierarchical NiXCo1-XS@C bundled-like nanostructures for enhanced supercapacitors. Electrochimica Acta, 2022, 406, 139872.	2.6	23
47	Constructing Layered Nanostructures from Nonâ€Layered Sulfide Crystals via Surface Charge Manipulation Strategy. Advanced Functional Materials, 2021, 31, 2101676.	7.8	20
48	Pseudocapacitive Zinc Cation Intercalation with Superior Kinetics Enabled by Atomically Thin V2O5 Nanobelts for Quasi-Solid-State Microbatteries. Energy Storage Materials, 2022, 50, 454-463.	9.5	20
49	Preparation of three-dimensional nitrogen-doped graphene layers by gas foaming method and its electrochemical capactive behavior. Electrochimica Acta, 2016, 193, 293-301.	2.6	15
50	The Electrolyte Additive Effects on Commercialized Ni-Rich LiNi_xCo_yMnzO₂ (x + y + z) Tj ETQq0 0 0 rgBT /Overloc 2292-2299.	2.5	12
51	A Robust Coinâ€Cell Design for In Situ Synchrotronâ€based Xâ€Ray Powder Diffraction Analysis of Battery Materials. Batteries and Supercaps, 2021, 4, 380-384.	2.4	11
52	Selective Interface Synthesis of Cobalt Metaphosphate Nanosheet Arrays Motivated by Functionalized Carbon Cloths for Fast and Durable Na/K-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 34410-34418.	4.0	8
53	Heterostructure Manipulation toward Ameliorating Electrodes for Better Lithium Storage Capability. ACS Sustainable Chemistry and Engineering, 2018, 6, 17267-17276.	3.2	7
54	Dual-Functional Tungsten Boosted Lithium-Ion Diffusion and Structural Integrity of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathodes for High Performance Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 50-60.	3.2	7

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55	Network Simplification-Based Cluster Coordinated Optimization Method for Distributed PVs With Inadequate Measurement. IEEE Access, 2020, 8, 65283-65293.	2.6	4
56	Surface engineering enables highly reversible lithium-ion storage and durable structure for advanced silicon anode. Cell Reports Physical Science, 2021, 2, 100486.	2.8	2