Changbao Zhu

List of Publications by Year
in descending order

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Version: 2024-02-01

42 papers	6,888 citations	136740 32 h-index	243296 44 g-index
45 all docs	45 docs citations	45 times ranked	8355 citing authors

#	Article	IF	Citations
1	Singleâ€Layered Ultrasmall Nanoplates of MoS₂ Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. Angewandte Chemie - International Edition, 2014, 53, 2152-2156.	7.2	826
2	Reversible Storage of Lithium in Silverâ€Coated Threeâ€Dimensional Macroporous Silicon. Advanced Materials, 2010, 22, 2247-2250.	11.1	558
3	Challenges and Perspectives for NASICONâ€Type Electrode Materials for Advanced Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700431.	11.1	499
4	Cationic Surfactant-Type Electrolyte Additive Enables Three-Dimensional Dendrite-Free Zinc Anode for Stable Zinc-Ion Batteries. ACS Energy Letters, 2020, 5, 3012-3020.	8.8	479
5	Carbon-Coated Na₃V₂(PO₄)₃ Embedded in Porous Carbon Matrix: An Ultrafast Na-Storage Cathode with the Potential of Outperforming Li Cathodes. Nano Letters, 2014, 14, 2175-2180.	4.5	446
6	Tin Nanoparticles Encapsulated in Porous Multichannel Carbon Microtubes: Preparation by Single-Nozzle Electrospinning and Application as Anode Material for High-Performance Li-Based Batteries. Journal of the American Chemical Society, 2009, 131, 15984-15985.	6.6	404
7	A new ultrafast superionic Li-conductor: ion dynamics in Li₁₁Si₂PS₁₂and comparison with other tetragonal LGPS-type electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 14669-14674.	1.3	256
8	The nanoscale circuitry of battery electrodes. Science, 2017, 358, .	6.0	235
9	Electrospinning of Highly Electroactive Carbonâ€Coated Singleâ€Crystalline LiFePO₄ Nanowires. Angewandte Chemie - International Edition, 2011, 50, 6278-6282.	7.2	223
10	Direct Observation of Lithium Staging in Partially Delithiated LiFePO₄ at Atomic Resolution. Journal of the American Chemical Society, 2011, 133, 4661-4663.	6.6	219
11	High Powerâ€“High Energy Sodium Battery Based on Threefold Interpenetrating Network. Advanced Materials, 2016, 28, 2409-2416.	11.1	205
12	Li Storage in 3D Nanoporous Auâ€Supported Nanocrystalline Tin. Advanced Materials, 2011, 23, 2443-2447.	11.1	198
13	Ge/C Nanowires as High-Capacity and Long-Life Anode Materials for Li-Ion Batteries. ACS Nano, 2014, 8, 7051-7059.	7.3	198
14	A General Strategy to Fabricate Carbonâ€Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for Highâ€Performance Lithium and Sodium Ion Batteries. Advanced Science, 2015, 2, 1500200.	5.6	193
15	Synthesis and electrochemical characterization of PEO-based polymer electrolytes with room temperature ionic liquids. Electrochimica Acta, 2007, 52, 5789-5794.	2.6	170
16	Fast Li Storage in MoS₂â€Grapheneâ€Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. Advanced Energy Materials, 2015, 5, 1401170.	10.2	155
17	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. Advanced Functional Materials, 2015, 25, 2335-2342.	7.8	148
18	A High Powerâ€“High Energy Na₃V₂(PO₄)₂F₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. Chemistry of Materials, 2017, 29, 5207-5215.	3.2	141

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19	Niobiumâ€Based Oxides Toward Advanced Electrochemical Energy Storage: Recent Advances and Challenges. Small, 2019, 15, e1804884.	5.2	130
20	Interfacial parasitic reactions of zinc anodes in zinc ion batteries: Underestimated corrosion and hydrogen evolution reactions and their suppression strategies. Journal of Energy Chemistry, 2022, 64, 246-262.	7.1	128
21	Interfaces in Garnetâ€Based Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2020, 10, 2001318.	10.2	85
22	Phase Boundary Propagation in Large LiFePO4 Single Crystals on Delithiation. Journal of the American Chemical Society, 2012, 134, 2988-2992.	6.6	81
23	Electrochemical Characterization of Two Types of PEO-Based Polymer Electrolytes with Room-Temperature Ionic Liquids. Journal of the Electrochemical Society, 2008, 155, A569.	1.3	77
24	Engineering nanostructured electrode materials for high performance sodium ion batteries: a case study of a 3D porous interconnected WS₂/C nanocomposite. Journal of Materials Chemistry A, 2015, 3, 20487-20493.	5.2	71
25	Advantageous Functional Integration of Adsorptionâ€Intercalationâ€Conversion Hybrid Mechanisms in 3D Flexible Nb₂O₅@Hard Carbon@MoS₂@Soft Carbon Fiber Paper Anodes for Ultrafast and Superâ€Stable Sodium Storage. Advanced Functional Materials, 2020, 30, 1908665.	7.8	67
26	Advanced Postâ€Potassiumâ€Ion Batteries as Emerging Potassiumâ€Based Alternatives for Energy Storage. Advanced Functional Materials, 2020, 30, 2005209.	7.8	62
27	Toward High Powerâ€High Energy Sodium Cathodes: A Case Study of Bicontinuous Ordered Network of 3D Porous Na₃(VO)₂(PO₄)₂F/rGO with Pseudocapacitance Effect. Small, 2019, 15, e1900356.	5.2	54
28	Size Effects in Sodium Ion Batteries. Advanced Functional Materials, 2021, 31, 2106047.	7.8	51
29	Sizeâ€Dependent Staging and Phase Transition in LiFePO₄/FePO₄. Advanced Functional Materials, 2014, 24, 312-318.	7.8	48
30	Designed Nanoarchitectures by Electrostatic Spray Deposition for Energy Storage. Advanced Materials, 2019, 31, e1803408.	11.1	48
31	Lithium Potential Variations for Metastable Materials: Case Study of Nanocrystalline and Amorphous LiFePO₄. Nano Letters, 2014, 14, 5342-5349.	4.5	33
32	Electronic Conductivity and Defect Chemistry of Heterosite FePO₄. Advanced Functional Materials, 2011, 21, 1917-1921.	7.8	30
33	A novel hybrid artificial photosynthesis system using MoS2 embedded in carbon nanofibers as electron relay and hydrogen evolution catalyst. Journal of Catalysis, 2017, 352, 35-41.	3.1	30
34	Spectroscopic and electrochemical characterization of the passive layer formed on lithium in gel polymer electrolytes containing propylene carbonate. Journal of Power Sources, 2007, 173, 531-537.	4.0	27
35	Transformation of Polyoxometalate into 3D Porous Liâ€Containing Oxide: A Case Study of Î³â€LiV₂O₅ for Highâ€Performance Cathodes of Liâ€Ion Batteries. Small Methods, 2019, 3, 1900187.	4.6	25
36	In situ micro-FTIR study of the solidâ€“solid interface between lithium electrode and polymer electrolytes. Journal of Power Sources, 2007, 174, 1027-1031.	4.0	24

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37	Kinetics of lithium dendrite growth in garnet-type solid electrolyte. Journal of Power Sources, 2021, 487, 229421.	4.0	23
38	Direct Imaging of Lithium Ions Using Aberration-Corrected Annular-Bright-Field Scanning Transmission Electron Microscopy and Associated Contrast Mechanisms. Materials Express, 2011, 1, 43-50.	0.2	20
39	High Energy, Long Cycle, and Superior Low Temperature Performance Aqueous Naâ€“Zn Hybrid Batteries Enabled by a Low-Cost and Protective Interphase Film-Forming Electrolyte. ACS Applied Materials & Interfaces, 2022, 14, 11425-11434.	4.0	18
40	Bicontinuous transition metal phosphides/rGO binder-free electrodes: generalized synthesis and excellent cycling stability for sodium storage. Nanoscale, 2020, 12, 16716-16723.	2.8	15
41	Low-Temperature Synthesis of Amorphous FePO₄@rGO Composites for Cost-Effective Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 57442-57450.	4.0	9
42	Negatively charged insulated boron nitride nanofibers directing subsurface zinc deposition for dendrite-free zinc anodes. Nano Research, 2023, 16, 403-410.	5.8	3