

Changbao Zhu

List of Publications by Citations

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42
papers

5,473
citations

28
h-index

45
g-index

45
ext. papers

6,112
ext. citations

13.6
avg, IF

6.01
L-index

#	Paper	IF	Citations
42	Single-layered ultrasmall nanoplates of MoS ₂ embedded in carbon nanofibers with excellent electrochemical performance for lithium and sodium storage. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2152-6	16.4	777
41	Reversible storage of lithium in silver-coated three-dimensional macroporous silicon. <i>Advanced Materials</i> , 2010 , 22, 2247-50	24	518
40	Carbon-coated Na ₃ V ₂ (PO ₄) ₃ embedded in porous carbon matrix: an ultrafast Na-storage cathode with the potential of outperforming Li cathodes. <i>Nano Letters</i> , 2014 , 14, 2175-80	11.5	392
39	Tin nanoparticles encapsulated in porous multichannel carbon microtubes: preparation by single-nozzle electrospinning and application as anode material for high-performance Li-based batteries. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15984-5	16.4	377
38	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700431	24	346
37	Electrospinning of highly electroactive carbon-coated single-crystalline LiFePO ₄ nanowires. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6278-82	16.4	211
36	Direct observation of lithium staging in partially delithiated LiFePO ₄ at atomic resolution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4661-3	16.4	200
35	A new ultrafast superionic Li-conductor: ion dynamics in Li ₁₁ Si ₂ PS ₁₂ and comparison with other tetragonal LGPS-type electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14669-74	3.6	197
34	The nanoscale circuitry of battery electrodes. <i>Science</i> , 2017 , 358,	33.3	184
33	Li storage in 3D nanoporous Au-supported nanocrystalline tin. <i>Advanced Materials</i> , 2011 , 23, 2443-7	24	183
32	High Power-High Energy Sodium Battery Based on Threefold Interpenetrating Network. <i>Advanced Materials</i> , 2016 , 28, 2409-16	24	182
31	Ge/C nanowires as high-capacity and long-life anode materials for Li-ion batteries. <i>ACS Nano</i> , 2014 , 8, 7051-9	16.7	177
30	Cationic Surfactant-Type Electrolyte Additive Enables Three-Dimensional Dendrite-Free Zinc Anode for Stable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3012-3020	20.1	164
29	A General Strategy to Fabricate Carbon-Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for High-Performance Lithium and Sodium Ion Batteries. <i>Advanced Science</i> , 2015 , 2, 1500200	13.6	158
28	Synthesis and electrochemical characterization of PEO-based polymer electrolytes with room temperature ionic liquids. <i>Electrochimica Acta</i> , 2007 , 52, 5789-5794	6.7	149
27	Fast Li Storage in MoS ₂ -Graphene-Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. <i>Advanced Energy Materials</i> , 2015 , 5, 1401170	21.8	142
26	Single-Layered Ultrasmall Nanoplates of MoS ₂ Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. <i>Angewandte Chemie</i> , 2014 , 126, 2184-2188	36	138

25	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. <i>Advanced Functional Materials</i> , 2015 , 25, 2335-2342	15.6	130
24	A High Power-High Energy Na ₃ V ₂ (PO ₄) ₂ F ₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. <i>Chemistry of Materials</i> , 2017 , 29, 5207-5215	9.6	109
23	Niobium-Based Oxides Toward Advanced Electrochemical Energy Storage: Recent Advances and Challenges. <i>Small</i> , 2019 , 15, e1804884	11	86
22	Phase boundary propagation in large LiFePO ₄ single crystals on delithiation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2988-92	16.4	78
21	Electrochemical Characterization of Two Types of PEO-Based Polymer Electrolytes with Room-Temperature Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A569	3.9	70
20	Engineering nanostructured electrode materials for high performance sodium ion batteries: a case study of a 3D porous interconnected WS ₂ /C nanocomposite. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20487-20493	13	64
19	Size-Dependent Staging and Phase Transition in LiFePO ₄ /FePO ₄ . <i>Advanced Functional Materials</i> , 2014 , 24, 312-318	15.6	45
18	Advantageous Functional Integration of Adsorption-Intercalation-Conversion Hybrid Mechanisms in 3D Flexible Nb ₂ O ₅ @Hard Carbon@MoS ₂ @Soft Carbon Fiber Paper Anodes for Ultrafast and Super-Stable Sodium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1908665	15.6	43
17	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001318	18.8	37
16	Toward High Power-High Energy Sodium Cathodes: A Case Study of Bicontinuous Ordered Network of 3D Porous Na (VO) (PO) F/rGO with Pseudocapacitance Effect. <i>Small</i> , 2019 , 15, e1900356	11	34
15	Designed Nanoarchitectures by Electrostatic Spray Deposition for Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1803408	24	29
14	Advanced Post-Potassium-Ion Batteries as Emerging Potassium-Based Alternatives for Energy Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 2005209	15.6	28
13	Lithium potential variations for metastable materials: case study of nanocrystalline and amorphous LiFePO ₄ . <i>Nano Letters</i> , 2014 , 14, 5342-9	11.5	27
12	A novel hybrid artificial photosynthesis system using MoS ₂ embedded in carbon nanofibers as electron relay and hydrogen evolution catalyst. <i>Journal of Catalysis</i> , 2017 , 352, 35-41	7.3	27
11	Electronic Conductivity and Defect Chemistry of Heterosite FePO ₄ . <i>Advanced Functional Materials</i> , 2011 , 21, 1917-1921	15.6	26
10	Electrospinning of Highly Electroactive Carbon-Coated Single-Crystalline LiFePO ₄ Nanowires. <i>Angewandte Chemie</i> , 2011 , 123, 6402-6406	3.6	24
9	Spectroscopic and electrochemical characterization of the passive layer formed on lithium in gel polymer electrolytes containing propylene carbonate. <i>Journal of Power Sources</i> , 2007 , 173, 531-537	8.9	23
8	In situ micro-FTIR study of the solid-solid interface between lithium electrode and polymer electrolytes. <i>Journal of Power Sources</i> , 2007 , 174, 1027-1031	8.9	20

7	Direct Imaging of Lithium Ions Using Aberration-Corrected Annular-Bright-Field Scanning Transmission Electron Microscopy and Associated Contrast Mechanisms. <i>Materials Express</i> , 2011 , 1, 43-50 ^{1,3}	18
6	Interfacial parasitic reactions of zinc anodes in zinc ion batteries: Underestimated corrosion and hydrogen evolution reactions and their suppression strategies. <i>Journal of Energy Chemistry</i> , 2022 , 64, 246-262	12 18
5	Transformation of Polyoxometalate into 3D Porous Li-Containing Oxide: A Case Study of LiV_2O_5 for High-Performance Cathodes of Li-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900187	12.8 12
4	Bicontinuous transition metal phosphides/rGO binder-free electrodes: generalized synthesis and excellent cycling stability for sodium storage. <i>Nanoscale</i> , 2020 , 12, 16716-16723	7.7 10
3	Kinetics of lithium dendrite growth in garnet-type solid electrolyte. <i>Journal of Power Sources</i> , 2021 , 487, 229421	8.9 8
2	Size Effects in Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 2106047	15.6 7
1	Low-Temperature Synthesis of Amorphous FePO_4/rGO Composites for Cost-Effective Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57442-57450	9.5 4