Changbao Zhu

List of Publications by Year in Descending Order

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	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	12	18
41	Low-Temperature Synthesis of Amorphous FePO@rGO Composites for Cost-Effective Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 57442-57450	9.5	4
40	Kinetics of lithium dendrite growth in garnet-type solid electrolyte. *Journal of Power Sources*, **2021**, 487, 229421	8.9	8
39	Size Effects in Sodium Ion Batteries. *Advanced Functional Materials*, **2021**, 2106047	15.6	7
38	Advantageous Functional Integration of Adsorption-Intercalation-Conversion Hybrid Mechanisms in 3D Flexible Nb2O5@Hard Carbon@MoS2@Soft Carbon Fiber Paper Anodes for Ultrafast and Super-Stable Sodium Storage. *Advanced Functional Materials*, **2020**, 30, 1908665	15.6	43
37	Bicontinuous transition metal phosphides/rGO binder-free electrodes: generalized synthesis and excellent cycling stability for sodium storage. *Nanoscale*, **2020**, 12, 16716-16723	7.7	10
36	Cationic Surfactant-Type Electrolyte Additive Enables Three-Dimensional Dendrite-Free Zinc Anode for Stable Zinc-Ion Batteries. *ACS Energy Letters*, **2020**, 5, 3012-3020	20.1	164
35	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. *Advanced Energy Materials*, **2020**, 10, 2001319	18.8	37
34	Advanced Post-Potassium-Ion Batteries as Emerging Potassium-Based Alternatives for Energy Storage. *Advanced Functional Materials*, **2020**, 30, 2005209	15.6	28
33	Transformation of Polyoxometalate into 3D Porous Li-Containing Oxide: A Case Study of LiV2O5 for High-Performance Cathodes of Li-Ion Batteries. *Small Methods*, **2019**, 3, 1900187	12.8	12
32	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. *Small*, **2019**, 15, e1900356	11	34
31	Niobium-Based Oxides Toward Advanced Electrochemical Energy Storage: Recent Advances and Challenges. *Small*, **2019**, 15, e1804884	11	86
30	Designed Nanoarchitectures by Electrostatic Spray Deposition for Energy Storage. *Advanced Materials*, **2019**, 31, e1803408	24	29
29	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1700431	24	346
28	A High Power-High Energy Na3V2(PO4)2F3 Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. *Chemistry of Materials*, **2017**, 29, 5207-5215	9.6	109
27	The nanoscale circuitry of battery electrodes. *Science*, **2017**, 358,	33.3	184
26	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	7.3	27

25	High Power-High Energy Sodium Battery Based on Threefold Interpenetrating Network. *Advanced Materials*, **2016**, 28, 2409-16	24	182
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	13	64
23	Fast Li Storage in MoS2-Graphene-Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. *Advanced Energy Materials*, **2015**, 5, 1401170	21.8	142
22	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. *Advanced Science*, **2015**, 2, 1500200	13.6	158
21	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. *Advanced Functional Materials*, **2015**, 25, 2335-2342	15.6	130
20	Single-layered ultrasmall nanoplates of MoS2 embedded in carbon nanofibers with excellent electrochemical performance for lithium and sodium storage. *Angewandte Chemie - International Edition*, **2014**, 53, 2152-6	16.4	777
19	Single-Layered Ultrasmall Nanoplates of MoS2 Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. *Angewandte Chemie*, **2014**, 126, 2184-2188	3.6	138
18	Ge/C nanowires as high-capacity and long-life anode materials for Li-ion batteries. *ACS Nano*, **2014**, 8, 7051-9	16.7	177
17	Lithium potential variations for metastable materials: case study of nanocrystalline and amorphous LiFePO4. *Nano Letters*, **2014**, 14, 5342-9	11.5	27
16	A new ultrafast superionic Li-conductor: ion dynamics in Li11Si2PS12 and comparison with other tetragonal LGPS-type electrolytes. *Physical Chemistry Chemical Physics*, **2014**, 16, 14669-74	3.6	197
15	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, 2175-80	11.5	392
14	Size-Dependent Staging and Phase Transition in LiFePO4/FePO4. *Advanced Functional Materials*, **2014**, 24, 312-318	15.6	45
13	Phase boundary propagation in large LiFePO4 single crystals on delithiation. *Journal of the American Chemical Society*, **2012**, 134, 2988-92	16.4	78
12	Direct observation of lithium staging in partially delithiated LiFePO4 at atomic resolution. *Journal of the American Chemical Society*, **2011**, 133, 4661-3	16.4	200
11	Electronic Conductivity and Defect Chemistry of Heterosite FePO4. *Advanced Functional Materials*, **2011**, 21, 1917-1921	15.6	26
10	Li storage in 3D nanoporous Au-supported nanocrystalline tin. *Advanced Materials*, **2011**, 23, 2443-7	24	183
9	Electrospinning of Highly Electroactive Carbon-Coated Single-Crystalline LiFePO4 Nanowires. *Angewandte Chemie*, **2011**, 123, 6402-6406	3.6	24
8	Electrospinning of highly electroactive carbon-coated single-crystalline LiFePO4 nanowires. *Angewandte Chemie - International Edition*, **2011**, 50, 6278-82	16.4	211

7	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	1.3	18
6	Reversible storage of lithium in silver-coated three-dimensional macroporous silicon. *Advanced Materials*, **2010**, 22, 2247-50	24	518
5	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, 15984-5	16.4	377
4	Electrochemical Characterization of Two Types of PEO-Based Polymer Electrolytes with Room-Temperature Ionic Liquids. *Journal of the Electrochemical Society*, **2008**, 155, A569	3.9	70
3	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	8.9	23
2	In situ micro-FTIR study of the solid–solid interface between lithium electrode and polymer electrolytes. *Journal of Power Sources*, **2007**, 174, 1027-1031	8.9	20
1	Synthesis and electrochemical characterization of PEO-based polymer electrolytes with room temperature ionic liquids. *Electrochimica Acta*, **2007**, 52, 5789-5794	6.7	149