Yun Zhang

List of Publications by Citations

89 papers	2,899 citations	26 h-index	52 g-index
100 ext. papers	3,597 ext. citations	8.4 avg, IF	5.68 L-index

#	Paper	IF	Citations
89	Carbon Anode Materials for Advanced Sodium-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1602898	21.8	649
88	Nitrogen-Doped Graphene Ribbon Assembled Core–Sheath MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. *Advanced Functional Materials*, **2016**, 26, 7754-7765	15.6	210
87	A Flexible 3D Multifunctional MgO-Decorated Carbon Foam@CNTs Hybrid as Self-Supported Cathode for High-Performance Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2017**, 27, 1702573	15.6	138
86	H -Insertion Boosted MnO for an Aqueous Zn-Ion Battery. *Small*, **2020**, 16, e1905842	11	126
85	Graphene-scroll-sheathed MnS coaxial nanocables embedded in N, S Co-doped graphene foam as 3D hierarchically ordered electrodes for enhanced lithium storage. *Energy Storage Materials*, **2019**, 16, 46-55	19.4	110
84	Flakelike LiCoO2 with Exposed {010} Facets As a Stable Cathode Material for Highly Reversible Lithium Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 2723-31	9.5	80
83	Natural Silk Cocoon Derived Nitrogen-doped Porous Carbon Nanosheets for High Performance Lithium-Sulfur Batteries. *Electrochimica Acta*, **2017**, 227, 7-16	6.7	78
82	Facile synthesis of one-dimensional LiNi0.8Co0.15Al0.05O2 microrods as advanced cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 13648-13652	13	77
81	Encapsulating yolk-shell FeS2@carbon microboxes into interconnected graphene framework for ultrafast lithium/sodium storage. *Carbon*, **2020**, 159, 366-377	10.4	68
80	Efficient Synthesis of Graphene Nanoscrolls for Fabricating Sulfur-Loaded Cathode and Flexible Hybrid Interlayer toward High-Performance Li-S Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 34185-34193	9.5	68
79	Anatase inverse opal TiO2-x@N-doped C induced the dominant pseudocapacitive effect for durable and fast lithium/sodium storage. *Electrochimica Acta*, **2019**, 299, 540-548	6.7	67
78	Interwoven V2O5 nanowire/graphene nanoscroll hybrid assembled as efficient polysulfide-trapping-conversion interlayer for long-life lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2018**, 6, 19358-19370	13	65
77	Facile pH-mediated synthesis of morphology-tunable MnCO3 and their transformation to truncated octahedral spinel LiMn2O4 cathode materials for superior lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 3633-3640	13	62
76	A freestanding and flexible nitrogen-doped carbon foam/sulfur cathode composited with reduced graphene oxide for high sulfur loading lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 18020-18028	13	60
75	Tailoring yolk–shell FeP@carbon nanoboxes with engineered void space for pseudocapacitance-boosted lithium storage. *Inorganic Chemistry Frontiers*, **2018**, 5, 2605-2614	6.8	54
74	Infiltrative coating of LiNi0.5Co0.2Mn0.3O2 microspheres with layer-structured LiTiO2: towards superior cycling performances for Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 19983-19987	13	53
73	An engineered self-supported electrocatalytic cathode and dendrite-free composite anode based on 3D double-carbon hosts for advanced Li–SeS2 batteries. *Journal of Materials Chemistry A*, **2020**, 8, 2969-2983	13	49

72	Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage. *Advanced Energy Materials*, **2020**, 10, 1903119	21.8	41
71	A flexible 3D nitrogen-doped carbon foam@CNTs hybrid hosting TiO2 nanoparticles as free-standing electrode for ultra-long cycling lithium-ion batteries. *Journal of Power Sources*, **2018**, 379, 10-19	8.9	40
70	Sulfur quantum dots wrapped by conductive polymer shell with internal void spaces for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 4049-4057	13	39
69	Restoration of Degraded Nickel-Rich Cathode Materials for Long-Life Lithium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 78-83	4.3	34
68	Template-Engaged Synthesis of 1D Hierarchical Chainlike LiCoO2 Cathode Materials with Enhanced High-Voltage Lithium Storage Capabilities. *ACS Applied Materials & Interfaces*, **2016**, 8, 25361-8	9.5	34
67	Rational Design of Multifunctional Integrated Host Configuration with Lithiophilicity-Sulfiphilicity toward High-Performance Li–S Full Batteries. *Advanced Functional Materials*, **2021**, 31, 2006033	15.6	32
66	Bio-Derived Hierarchical Multicore-Shell FeN-Nanoparticle-Impregnated N-Doped Carbon Nanofiber Bundles: A Host Material for Lithium-/Potassium-Ion Storage. *Nano-Micro Letters*, **2019**, 11, 56	19.5	31
65	A borate-rich, cross-linked gel polymer electrolyte with near-single ion conduction for lithium metal batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18547-18557	13	30
64	Chalcopyrite-Derived NaMO (M = Cu, Fe, Mn) Cathode: Tuning Impurities for Self-Doping. *ACS Applied Materials & Interfaces*, **2020**, 12, 2432-2444	9.5	29
63	Tailoring sandwich-like CNT@MnO@N-doped carbon hetero-nanotubes as advanced anodes for boosting lithium storage. *Electrochimica Acta*, **2019**, 304, 158-167	6.7	25
62	Fabrication of Li+-Conductive Li2ZrO3-Based Shell Encapsulated LiNi0.5Co0.2Mn0.3O2 Microspheres as High-Rate and Long-Life Cathode Materials for Li-Ion Batteries. *ChemElectroChem*, **2015**, 2, 1921-1928	4.3	24
61	Hierarchically Porous N,S-Codoped Carbon-Embedded Dual Phase MnO/MnS Nanoparticles for Efficient Lithium Ion Storage. *Inorganic Chemistry*, **2018**, 57, 7993-8001	5.1	23
60	Integrating conductivity and active sites: Fe/Fe3C@GNC as an trapping-catalyst interlayer and dendrite-free lithium host for the lithium–sulfur cell with outstanding rate performance. *Journal of Materials Chemistry A*, **2020**, 8, 18987-19000	13	23
59	Preparation of MoS/WS nanosheets by liquid phase exfoliation with assistance of epigallocatechin gallate and study as an additive for high-performance lithium-sulfur batteries. *Journal of Colloid and Interface Science*, **2019**, 552, 554-562	9.3	22
58	Facile fabrication of a jarosite ultrathin KFe3(SO4)2(OH)6@rGO nanosheet hybrid composite with pseudocapacitive contribution as a robust anode for lithium-ion batteries. *Inorganic Chemistry Frontiers*, **2019**, 6, 192-198	6.8	21
57	Construction of Electrocatalytic and Heat-Resistant Self-Supporting Electrodes for High-Performance Lithium-Sulfur Batteries. *Nano-Micro Letters*, **2019**, 11, 78	19.5	20
56	An integrated hybrid interlayer for polysulfides/selenides regulation toward advanced Li–SeS2 batteries. *Carbon*, **2020**, 161, 413-422	10.4	19
55	Vesicle-like sulfur/reduced graphene oxide composites for high performance lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2017**, 724, 1007-1013	5.7	19

54	Dopamine Self-Polymerization Enables an N-Doped Carbon Coating of Exfoliated MoS2 Nanoflakes for Anodes of Lithium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 383-390	4.3	18
53	Hierarchically ordered mesoporous TiO2 nanofiber bundles derived from natural collagen fibers for lithium and sodium storage. *Journal of Alloys and Compounds*, **2018**, 731, 844-852	5.7	18
52	The electrochemical properties of Fe- and Ni-cosubstituted Li2MnO3 via combustion method. *Journal of Solid State Electrochemistry*, **2013**, 17, 2437-2444	2.6	18
51	Porous carbon nanofibers formed in situ by electrospinning with a volatile solvent additive into an ice water bath for lithium–sulfur batteries. *RSC Advances*, **2015**, 5, 23749-23757	3.7	17
50	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. *Science Advances*, **2021**, 7, eabh3482	14.3	17
49	Superhierarchical Conductive Framework Implanted with Nickel/Graphitic Carbon Nanocages as Sulfur/Lithium Metal Dual-Role Hosts for Li-S Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 35058-35070	9.5	15
48	Bio-assisted engineering of hierarchical porous carbon nanofiber host in-situ embedded with iron carbide nanocatalysts toward high-performance Li–S batteries. *Carbon*, **2021**, 177, 60-70	10.4	15
47	Ultrafast and Durable Lithium Storage Enabled by Porous Bowl-Like LiFePO4/C Composite with Na+ Doping. *ChemElectroChem*, **2017**, 4, 1141-1147	4.3	14
46	Biotemplate-Based Engineering of High-Temperature Stable Anatase TiO2 Nanofiber Bundles with Impregnated CeO2 Nanocrystals for Enhanced Lithium Storage. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7823-7832	8.3	14
45	Three-dimensional cross-linked MnO/Sb hybrid nanowires co-embedded nitrogen-doped carbon tubes as high-performance anode materials for lithium-ion batteries. *Journal of Alloys and Compounds*, **2020**, 835, 155239	5.7	14
44	Template-Assisted Synthesis of a One-Dimensional Hierarchical Li1.2Mn0.54Ni0.13Co0.13O2 Microrod Cathode Material for Lithium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 332-339	4.3	14
43	Mn-Substituted Tunnel-Type Polyantimonic Acid Confined in a Multidimensional Integrated Architecture Enabling Superfast-Charging Lithium-Ion Battery Anodes. *Advanced Science*, **2021**, 8, 2002866	13.6	12
42	In situ formed Li5AlO4-coated LiNi0.8Co0.1Mn0.1O2 cathode material assisted by hydrocarbonate with improved electrochemical performance for lithium-ion batteries. *Electrochimica Acta*, **2020**, 353, 136541	6.7	11
41	Nano-silicon embedded in MOFs-derived nitrogen-doped carbon/cobalt/carbon nanotubes hybrid composite for enhanced lithium ion storage. *Applied Surface Science*, **2020**, 529, 147134	6.7	11
40	Mg2+ and Ti4+ Co-Doped Spinel LiMn2O4 as Lithium-Ion Battery Cathode. *ChemistrySelect*, **2019**, 4, 9583-9589	1.9	10
39	A Trifunctional Separator Based on a Blockage-Adsorption-Catalysis Synergistic Effect for Li-S Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 47599-47611	9.5	10
38	Bottom-Up Construction of Reduced-Graphene-Oxide-Anchored MnO with an Nitrogen-Doped Carbon Coating for Synergistically Improving Lithium-Ion Storage. *Inorganic Chemistry*, **2018**, 57, 13693-13701	5.1	9
37	Sandwiching Defect-Rich TiO Nanocrystals into a Three-Dimensional Flexible Conformal Carbon Hybrid Matrix for Long-Cycling and High-Rate Li/Na-Ion Batteries. *Inorganic Chemistry*, **2019**, 58, 8841-8853	5.1	8

36	Embedding Silicon in Pinecone-Derived Porous Carbon as a High-Performance Anode for Lithium-Ion Batteries. *ChemElectroChem*, **2020**, 7, 2889-2895	4.3	8
35	Preparation of Enhanced-Performance LiMn0.6Fe0.4PO4/C Cathode Material for Lithium-Ion Batteries by using a Divalent Transition-Metal Phosphate as an Intermediate. *ChemElectroChem*, **2017**, 4, 175-182	4.3	8
34	Cycling-induced structure refinement of MnO nanorods wrapped by N-doped carbon with internal void space for advanced lithium-ion anodes. *Applied Surface Science*, **2019**, 479, 386-394	6.7	7
33	Biotemplate-mediated structural engineering of rod-like V2O5 cathode materials for lithium-ion batteries. *Journal of Alloys and Compounds*, **2019**, 787, 625-630	5.7	7
32	Design and host-involved in situ fabrication of La4NiLiO8 coating on Ni-rich cathode materials towards superior structural stability. *Journal of Materials Chemistry A*, **2021**, 9, 3427-3440	13	7
31	Engineering Bifunctional Host Materials of Sulfur and Lithium-Metal Based on Nitrogen-Enriched Polyacrylonitrile for Li-S Batteries. *Chemistry - A European Journal*, **2020**, 26, 8784-8793	4.8	6
30	Influence of Co-substitution on Structure and Electrochemical Performances of Li-rich Spinel LiMn2O4. *Integrated Ferroelectrics*, **2015**, 164, 23-32	0.8	6
29	Polyoxo-titanium clusters dually functionalized ZnIn2S4/MIL-101 catalyst for photocatalysis of aquatic hydrogen production. *International Journal of Hydrogen Energy*, **2020**, 45, 30571-30582	6.7	6
28	Study of nano-Ag particles doped TiO2 prepared by photocatalysis. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 3904-8	1.3	5
27	Cubic Copper Hexacyanoferrates Nanoparticles: Facile Template-Free Deposition and Electrocatalytic Sensing Towards Hydrazine. *International Journal of Electrochemistry*, **2011**, 2011, 1-5	2.4	5
26	Investigation of photocatalytic activity of nano-sized TiO2 with the presence of various inorganic anions. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 3639-43	1.3	5
25	Nanocoating of Ce-tannic acid metal-organic coordination complex: surface modification of layered Li1.2Mn0.6Ni0.2O2 by CeO2 coating for lithium-ion batteries. *Ionics*, **2019**, 25, 3031-3040	2.7	5
24	Multistep sintering preparation and electrochemical performances of LiFe0.7 V0.2PO4/C cathode material for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2013**, 17, 2559-2565	2.6	4
23	Graphene-nanoscroll-based Integrated and self-standing electrode with a sandwich structure for lithium sulfur batteries. *Inorganic Chemistry Frontiers*, **2020**, 7, 592-596	6.8	4
22	Bismuth dots imbedded in ultralong nitrogen-doped carbon tubes for highly efficient lithium ion storage. *Inorganic Chemistry Frontiers*, **2020**, 7, 4854-4864	6.8	4
21	A Natural Polymer Captor for Immobilizing Polysulfide/Polyselenide in Working Li-SeS Batteries. *Nano-Micro Letters*, **2021**, 13, 104	19.5	4
20	Graphene nanoscrolls-wrapped oxygen-deficient ZnSb2O6-x nanospheres for enhanced lithium-ion storage. *Carbon*, **2021**, 178, 743-752	10.4	4
19	Influence of multistep sintering method on electrochemical performances of 7LiFePO4□Li3V2(PO4)3/C composite cathode material for lithium ion batteries. *Journal of Solid State Electrochemistry*, **2015**, 19, 477-484	2.6	3

18	Study on decrystallization of cathode material and decomposition of electrolyte in LiNi1/3Co1/3Mn1/3O2-based cells. *Journal of Solid State Electrochemistry*, **2014**, 18, 1757-1762	2.6	3
17	Osteogenesis capacity of a novel BMP/□TCP bioactive composite bone cement. *Journal Wuhan University of Technology, Materials Science Edition*, **2004**, 19, 30-34	1	3
16	Optimizing Current Terminals of 18 650 Lithium-Ion Power Batteries under High Discharge Current. *Energy Technology*, **2017**, 5, 1619-1626	3.5	2
15	Facile Synthesis of Bowl-Like LiFePO4/C Composite with High Rate-Performance. *Journal of Electronic Materials*, **2018**, 47, 3543-3551	1.9	2
14	Improving the Cycle Performance of LiNi0.5Co0.3Mn0.2O2 Cathode Material for Lithium-ion Batteries by Carbon Coating. *Integrated Ferroelectrics*, **2013**, 147, 103-109	0.8	2
13	Bioderived carbon fiber conductive networks with inlaid electrocatalysts as an ultralight freestanding interlayer for working Li□eS2 pouch cells. *Carbon*, **2022**, 189, 10-20	10.4	2
12	A Heterostructure-In-Built Multichambered Host Architecture Enabled by Topochemical Self-Nitridation for Rechargeable Lithiated Silicon-Polysulfide Full Battery. *Advanced Functional Materials*, **2021**, 31, 2103456	15.6	2
11	Ultrafast and durable Li/Na storage by an iron selenide anode using an elastic hierarchical structure. *Inorganic Chemistry Frontiers*, **2021**, 8, 3686-3696	6.8	2
10	Harmonious Dual-Riveting Interface Induced from Niobium Oxides Coating Toward Superior Stability of Li-Rich Mn-Based Cathode.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61248-61257	9.5	2
9	Influences of Fe Element on the Structural and Electrochemical Performances of LiNi0.5Co0.2Mn0.3O2 Cathode Materials. *Integrated Ferroelectrics*, **2014**, 154, 135-141	0.8	1
8	Synthesis and electrochemical properties of Li1.03Co0.1Mn1.9FzO4-z material for lithium-ion batteries. *Transactions of Nonferrous Metals Society of China*, **2013**, 23, 2312-2316	3.3	1
7	Anode Materials: Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage (Adv. Energy Mater. 1/2020). *Advanced Energy Materials*, **2020**, 10, 2070002	21.8	1
6	Electrooxidation-enabled electroactive high-valence ferritic species in NiFe layered double hydroxide arrays as efficient oxygen evolution catalysts. *Journal of Colloid and Interface Science*, **2021**, 599, 168-177	9.3	1
5	Interface and defect engineering enable fast and high-efficiency Li extraction of metatitanic acid adsorbent. *Chemical Engineering Journal*, **2021**, 425, 130550	14.7	1
4	Investigation on process mechanism of a novel energy-saving synthesis for high performance Li4Ti5O12 anode material. *Journal of Energy Chemistry*, **2022**, 70, 266-275	12	1
3	Embedding silicon in biomass-derived porous carbon framework as high-performance anode of lithium-ion batteries. *Journal of Alloys and Compounds*, **2022**, 165364	5.7	0
2	Influences of HCl Concentration on Structure and Photocatalysed Performances of TiO2 Nanotubes. *Integrated Ferroelectrics*, **2015**, 161, 123-127	0.8	
1	Fabrication of Li+-Conductive Li2ZrO3-Based Shell Encapsulated LiNi0.5Co0.2Mn0.3O2 Microspheres as High-Rate and Long-Life Cathode Materials for Li-Ion Batteries. *ChemElectroChem*, **2015**, 2, 1861-1861	4.3	