

# Yun Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Bioderived carbon fiber conductive networks with inlaid electrocatalysts as an ultralight freestanding interlayer for working LiSeS <sub>2</sub> pouch cells. <i>Carbon</i> , <b>2022</b> , 189, 10-20	10.4	2
88	Investigation on process mechanism of a novel energy-saving synthesis for high performance Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode material. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 70, 266-275	12	1
87	Embedding silicon in biomass-derived porous carbon framework as high-performance anode of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165364	5.7	0
86	A Natural Polymer Captor for Immobilizing Polysulfide/Polyselenide in Working Li-SeS Batteries. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 104	19.5	4
85	Graphene nanoscrolls-wrapped oxygen-deficient ZnSb <sub>2</sub> O <sub>6-x</sub> nanospheres for enhanced lithium-ion storage. <i>Carbon</i> , <b>2021</b> , 178, 743-752	10.4	4
84	Bio-assisted engineering of hierarchical porous carbon nanofiber host in-situ embedded with iron carbide nanocatalysts toward high-performance LiS batteries. <i>Carbon</i> , <b>2021</b> , 177, 60-70	10.4	15
83	A Heterostructure-In-Built Multichambered Host Architecture Enabled by Topochemical Self-Nitridation for Rechargeable Lithiated Silicon-Polysulfide Full Battery. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103456	15.6	2
82	Mn-Substituted Tunnel-Type Polyantimonic Acid Confined in a Multidimensional Integrated Architecture Enabling Superfast-Charging Lithium-Ion Battery Anodes. <i>Advanced Science</i> , <b>2021</b> , 8, 2002866	13.6	12
81	Rational Design of Multifunctional Integrated Host Configuration with Lithiophilicity-Sulfiphilicity toward High-Performance LiS Full Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006033	15.6	32
80	Design and host-involved in situ fabrication of La <sub>4</sub> NiLiO <sub>8</sub> coating on Ni-rich cathode materials towards superior structural stability. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3427-3440	13	7
79	Ultrafast and durable Li/Na storage by an iron selenide anode using an elastic hierarchical structure. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 3686-3696	6.8	2
78	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. <i>Science Advances</i> , <b>2021</b> , 7, eabh3482	14.3	17
77	Electrooxidation-enabled electroactive high-valence ferritic species in NiFe layered double hydroxide arrays as efficient oxygen evolution catalysts. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 599, 168-177	9.3	1
76	Interface and defect engineering enable fast and high-efficiency Li extraction of metatitanic acid adsorbent. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130550	14.7	1
75	Harmonious Dual-Riveting Interface Induced from Niobium Oxides Coating Toward Superior Stability of Li-Rich Mn-Based Cathode.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 61248-61257	9.5	2
74	In situ formed Li <sub>5</sub> AlO <sub>4</sub> -coated LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> cathode material assisted by hydrocarbonate with improved electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 353, 136541	6.7	11
73	Embedding Silicon in Pinecone-Derived Porous Carbon as a High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 2889-2895	4.3	8

72	Nano-silicon embedded in MOFs-derived nitrogen-doped carbon/cobalt/carbon nanotubes hybrid composite for enhanced lithium ion storage. <i>Applied Surface Science</i> , <b>2020</b> , 529, 147134	6.7	11
71	Engineering Bifunctional Host Materials of Sulfur and Lithium-Metal Based on Nitrogen-Enriched Polyacrylonitrile for Li-S Batteries. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8784-8793	4.8	6
70	An integrated hybrid interlayer for polysulfides/selenides regulation toward advanced Li <sub>2</sub> S <sub>2</sub> batteries. <i>Carbon</i> , <b>2020</b> , 161, 413-422	10.4	19
69	Three-dimensional cross-linked MnO/Sb hybrid nanowires co-embedded nitrogen-doped carbon tubes as high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155239	5.7	14
68	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). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070002	21.8	1
67	H <sup>-</sup> Insertion Boosted MnO for an Aqueous Zn-Ion Battery. <i>Small</i> , <b>2020</b> , 16, e1905842	11	126
66	An engineered self-supported electrocatalytic cathode and dendrite-free composite anode based on 3D double-carbon hosts for advanced Li <sub>2</sub> S <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2969-2983	13	49
65	Encapsulating yolk-shell FeS <sub>2</sub> @carbon microboxes into interconnected graphene framework for ultrafast lithium/sodium storage. <i>Carbon</i> , <b>2020</b> , 159, 366-377	10.4	68
64	Chalcopyrite-Derived NaMO (M = Cu, Fe, Mn) Cathode: Tuning Impurities for Self-Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2432-2444	9.5	29
63	Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903119	21.8	41
62	Graphene-nanoscroll-based Integrated and self-standing electrode with a sandwich structure for lithium sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 592-596	6.8	4
61	Bismuth dots imbedded in ultralong nitrogen-doped carbon tubes for highly efficient lithium ion storage. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 4854-4864	6.8	4
60	Polyoxo-titanium clusters dually functionalized ZnIn <sub>2</sub> S <sub>4</sub> /MIL-101 catalyst for photocatalysis of aquatic hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 30571-30582	6.7	6
59	Superhierarchical Conductive Framework Implanted with Nickel/Graphitic Carbon Nanocages as Sulfur/Lithium Metal Dual-Role Hosts for Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35058-35070	9.5	15
58	A Trifunctional Separator Based on a Blockage-Adsorption-Catalysis Synergistic Effect for Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47599-47611	9.5	10
57	Integrating conductivity and active sites: Fe/Fe <sub>3</sub> C@GNC as an trapping-catalyst interlayer and dendrite-free lithium host for the lithium sulfur cell with outstanding rate performance. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18987-19000	13	23
56	Mg <sup>2+</sup> and Ti <sup>4+</sup> Co-Doped Spinel LiMn <sub>2</sub> O <sub>4</sub> as Lithium-Ion Battery Cathode. <i>ChemistrySelect</i> , <b>2019</b> , 4, 9583-9589	9.5	10
55	Construction of Electrocatalytic and Heat-Resistant Self-Supporting Electrodes for High-Performance Lithium-Sulfur Batteries. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 78	19.5	20

54	Facile fabrication of a jarosite ultrathin $\text{KFe}_3(\text{SO}_4)_2(\text{OH})_6$ @rGO nanosheet hybrid composite with pseudocapacitive contribution as a robust anode for lithium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 192-198	6.8	21
53	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. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 554-562	9.3	22
52	Sandwiching Defect-Rich TiO Nanocrystals into a Three-Dimensional Flexible Conformal Carbon Hybrid Matrix for Long-Cycling and High-Rate Li/Na-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8841-8853	5.1	8
51	Tailoring sandwich-like CNT@MnO@N-doped carbon hetero-nanotubes as advanced anodes for boosting lithium storage. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 158-167	6.7	25
50	Biotemplate-Based Engineering of High-Temperature Stable Anatase TiO <sub>2</sub> Nanofiber Bundles with Impregnated CeO <sub>2</sub> Nanocrystals for Enhanced Lithium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7823-7832	8.3	14
49	Cycling-induced structure refinement of MnO nanorods wrapped by N-doped carbon with internal void space for advanced lithium-ion anodes. <i>Applied Surface Science</i> , <b>2019</b> , 479, 386-394	6.7	7
48	A borate-rich, cross-linked gel polymer electrolyte with near-single ion conduction for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18547-18557	13	30
47	Bio-Derived Hierarchical Multicore-Shell FeN-Nanoparticle-Impregnated N-Doped Carbon Nanofiber Bundles: A Host Material for Lithium-/Potassium-Ion Storage. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 56	19.5	31
46	Biotemplate-mediated structural engineering of rod-like V <sub>2</sub> O <sub>5</sub> cathode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 787, 625-630	5.7	7
45	Anatase inverse opal TiO <sub>2-x</sub> @N-doped C induced the dominant pseudocapacitive effect for durable and fast lithium/sodium storage. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 540-548	6.7	67
44	Nanocoating of Ce-tannic acid metal-organic coordination complex: surface modification of layered Li <sub>1.2</sub> Mn <sub>0.6</sub> Ni <sub>0.2</sub> O <sub>2</sub> by CeO <sub>2</sub> coating for lithium-ion batteries. <i>Ionics</i> , <b>2019</b> , 25, 3031-3040	2.7	5
43	Graphene-scroll-sheathed MnS coaxial nanocables embedded in N, S Co-doped graphene foam as 3D hierarchically ordered electrodes for enhanced lithium storage. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 46-55	19.4	110
42	A flexible 3D nitrogen-doped carbon foam@CNTs hybrid hosting TiO <sub>2</sub> nanoparticles as free-standing electrode for ultra-long cycling lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 379, 10-19	8.9	40
41	Facile Synthesis of Bowl-Like LiFePO <sub>4</sub> /C Composite with High Rate-Performance. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 3543-3551	1.9	2
40	Dopamine Self-Polymerization Enables an N-Doped Carbon Coating of Exfoliated MoS <sub>2</sub> Nanoflakes for Anodes of Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 383-390	4.3	18
39	Restoration of Degraded Nickel-Rich Cathode Materials for Long-Life Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 78-83	4.3	34
38	Hierarchically ordered mesoporous TiO <sub>2</sub> nanofiber bundles derived from natural collagen fibers for lithium and sodium storage. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 844-852	5.7	18
37	Interwoven V <sub>2</sub> O <sub>5</sub> nanowire/graphene nanoscroll hybrid assembled as efficient polysulfide-trapping-conversion interlayer for long-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19358-19370	13	65

36	Hierarchically Porous N,S-Codoped Carbon-Embedded Dual Phase MnO/MnS Nanoparticles for Efficient Lithium Ion Storage. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 7993-8001	5.1	23
35	Bottom-Up Construction of Reduced-Graphene-Oxide-Anchored MnO with an Nitrogen-Doped Carbon Coating for Synergistically Improving Lithium-Ion Storage. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 13693-13701	5.1	9
34	Tailoring yolk-shell FeP@carbon nanoboxes with engineered void space for pseudocapacitance-boosted lithium storage. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2605-2614	6.8	54
33	Optimizing Current Terminals of 18 650 Lithium-Ion Power Batteries under High Discharge Current. <i>Energy Technology</i> , <b>2017</b> , 5, 1619-1626	3.5	2
32	Ultrafast and Durable Lithium Storage Enabled by Porous Bowl-Like LiFePO <sub>4</sub> /C Composite with Na <sup>+</sup> Doping. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1141-1147	4.3	14
31	Carbon Anode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602898	5.8	649
30	A freestanding and flexible nitrogen-doped carbon foam/sulfur cathode composited with reduced graphene oxide for high sulfur loading lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18020-18028	13	60
29	A Flexible 3D Multifunctional MgO-Decorated Carbon Foam@CNTs Hybrid as Self-Supported Cathode for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702573	15.6	138
28	Vesicle-like sulfur/reduced graphene oxide composites for high performance lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 1007-1013	5.7	19
27	Template-Assisted Synthesis of a One-Dimensional Hierarchical Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> Microrod Cathode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 332-339	4.3	14
26	Preparation of Enhanced-Performance LiMn <sub>0.6</sub> Fe <sub>0.4</sub> PO <sub>4</sub> /C Cathode Material for Lithium-Ion Batteries by using a Divalent Transition-Metal Phosphate as an Intermediate. <i>ChemElectroChem</i> , <b>2017</b> , 4, 175-182	4.3	8
25	Natural Silk Cocoon Derived Nitrogen-doped Porous Carbon Nanosheets for High Performance Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 227, 7-16	6.7	78
24	Nitrogen-Doped Graphene Ribbon Assembled Core-shell MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7754-7765	15.6	210
23	Flakelike LiCoO <sub>2</sub> with Exposed {010} Facets As a Stable Cathode Material for Highly Reversible Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2723-31	9.5	80
22	Efficient Synthesis of Graphene Nanoscrolls for Fabricating Sulfur-Loaded Cathode and Flexible Hybrid Interlayer toward High-Performance Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34185-34193	9.5	68
21	Template-Engaged Synthesis of 1D Hierarchical Chainlike LiCoO <sub>2</sub> Cathode Materials with Enhanced High-Voltage Lithium Storage Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25361-8	9.5	34
20	Influence of multistep sintering method on electrochemical performances of 7LiFePO <sub>4</sub> Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C composite cathode material for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 477-484	2.6	3
19	Facile pH-mediated synthesis of morphology-tunable MnCO <sub>3</sub> and their transformation to truncated octahedral spinel LiMn <sub>2</sub> O <sub>4</sub> cathode materials for superior lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3633-3640	13	62

18	Influences of HCl Concentration on Structure and Photocatalysed Performances of TiO <sub>2</sub> Nanotubes. <i>Integrated Ferroelectrics</i> , <b>2015</b> , 161, 123-127	0.8	
17	Fabrication of Li <sup>+</sup> -Conductive Li <sub>2</sub> ZrO <sub>3</sub> -Based Shell Encapsulated LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Microspheres as High-Rate and Long-Life Cathode Materials for Li-Ion Batteries. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1861-1861	4.3	
16	Fabrication of Li <sup>+</sup> -Conductive Li <sub>2</sub> ZrO <sub>3</sub> -Based Shell Encapsulated LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Microspheres as High-Rate and Long-Life Cathode Materials for Li-Ion Batteries. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1921-1928	4.3	24
15	Porous carbon nanofibers formed in situ by electrospinning with a volatile solvent additive into an ice water bath for lithium-sulfur batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 23749-23757	3.7	17
14	Facile synthesis of one-dimensional LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> microrods as advanced cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13648-13652	13	77
13	Influence of Co-substitution on Structure and Electrochemical Performances of Li-rich Spinel LiMn <sub>2</sub> O <sub>4</sub> . <i>Integrated Ferroelectrics</i> , <b>2015</b> , 164, 23-32	0.8	6
12	Sulfur quantum dots wrapped by conductive polymer shell with internal void spaces for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4049-4057	13	39
11	Study on decrystallization of cathode material and decomposition of electrolyte in LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> -based cells. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1757-1762	2.6	3
10	Infiltrative coating of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> microspheres with layer-structured LiTiO <sub>2</sub> : towards superior cycling performances for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19983-19987	13	53
9	Influences of Fe Element on the Structural and Electrochemical Performances of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Cathode Materials. <i>Integrated Ferroelectrics</i> , <b>2014</b> , 154, 135-141	0.8	1
8	Multistep sintering preparation and electrochemical performances of LiFe <sub>0.7</sub> V <sub>0.2</sub> PO <sub>4</sub> /C cathode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2559-2565	2.6	4
7	The electrochemical properties of Fe- and Ni-cosubstituted Li <sub>2</sub> MnO <sub>3</sub> via combustion method. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2437-2444	2.6	18
6	Synthesis and electrochemical properties of Li <sub>1.03</sub> Co <sub>0.1</sub> Mn <sub>1.9</sub> FzO <sub>4-z</sub> material for lithium-ion batteries. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 2312-2316	3.3	1
5	Improving the Cycle Performance of LiNi <sub>0.5</sub> Co <sub>0.3</sub> Mn <sub>0.2</sub> O <sub>2</sub> Cathode Material for Lithium-ion Batteries by Carbon Coating. <i>Integrated Ferroelectrics</i> , <b>2013</b> , 147, 103-109	0.8	2
4	Cubic Copper Hexacyanoferrates Nanoparticles: Facile Template-Free Deposition and Electrocatalytic Sensing Towards Hydrazine. <i>International Journal of Electrochemistry</i> , <b>2011</b> , 2011, 1-5	2.4	5
3	Study of nano-Ag particles doped TiO <sub>2</sub> prepared by photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3904-8	1.3	5
2	Investigation of photocatalytic activity of nano-sized TiO <sub>2</sub> with the presence of various inorganic anions. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3639-43	1.3	5
1	Osteogenesis capacity of a novel BMP/βTCP bioactive composite bone cement. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2004</b> , 19, 30-34	1	3

