

# Xiao-Hui Zhang

## List of Publications by Year in descending order

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62  
papers

2,401  
citations

218381

26  
h-index

205818

48  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mg,Ti-base surface integrated layer and bulk doping to suppress lattice oxygen evolution of Ni-rich cathode material at a high cut-off voltage. <i>Journal of Energy Chemistry</i> , 2022, 71, 434-444.	7.1	23
2	Ultrafine ZnS nanoparticles embedded in N-doped carbon as advanced anode materials for lithium ion batteries and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164783.	2.8	14
3	Modifying the Cathode-Electrolyte Interphase by Sulfone-Based Additive to Enhance the Electrochemical Performance of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ . <i>ACS Applied Energy Materials</i> , 2022, 5, 639-647.	2.5	7
4	Preparation of graphene/copper composites with a thiophenol molecular junction for thermal conduction application. <i>New Journal of Chemistry</i> , 2022, 46, 10107-10116.	1.4	3
5	Construction of internal electric field to suppress oxygen evolution of Ni-rich cathode materials at a high cutoff voltage. <i>Journal of Energy Chemistry</i> , 2022, 73, 114-125.	7.1	13
6	Biomass-derived O, N-codoped hierarchically porous carbon prepared by black fungus and <i>Hericium erinaceus</i> for high performance supercapacitor. <i>RSC Advances</i> , 2021, 11, 27860-27867.	1.7	7
7	Control of the interface graphitized/amorphous carbon of biomass-derived carbon microspheres for symmetric supercapacitors. <i>Nanoscale Advances</i> , 2021, 3, 4858-4865.	2.2	14
8	Hierarchical $\text{Fe}_2\text{O}_3@ \text{MoS}_2/\text{C}$ Nanorods as Anode Materials for Sodium Ion Batteries with High Cycle Stability. <i>ACS Applied Energy Materials</i> , 2021, 4, 3757-3765.	2.5	12
9	Enhanced electrochemical performance of Ni-rich cathode material by N-doped $\text{LiAlO}_2$ surface modification for lithium-ion batteries. <i>Electrochimica Acta</i> , 2021, 372, 137882.	2.6	18
10	Microwave-Assisted Preparation of Hierarchical N and O Co-Doped Corn-Cob-Derived Activated Carbon for a High-Performance Supercapacitor. <i>Energy &amp; Fuels</i> , 2021, 35, 8334-8344.	2.5	19
11	Phase Compatible $\text{NiFe}_2\text{O}_4$ Coating Tunes Oxygen Redox in Li-Rich Layered Oxide. <i>ACS Nano</i> , 2021, 15, 11607-11618.	7.3	95
12	Bifunctional Surface Coating of $\text{LiAlO}_2/\text{Si}_3\text{N}_4/\text{Al}_2\text{O}_3$ Hybrid Layer on Ni-Rich Cathode Materials for High Performance Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8951-8961.	3.2	8
13	Heterostructured $\text{SnS-ZnS}@ \text{C}$ nanoparticles embedded in expanded graphite as advanced anode materials for lithium ion batteries. <i>Chemical Physics Letters</i> , 2021, 775, 138662.	1.2	6
14	Application of $\text{H}_4\text{P}_2\text{O}_7$ as leaching acid in one-step selective recovery for metals from spent $\text{LiFePO}_4$ batteries. <i>Ionics</i> , 2021, 27, 5127-5135.	1.2	10
15	Phenylamine-Functionalized Graphene-Copper Composites with High Thermal Conductivity: Implications for Thermal Dissipation. <i>ACS Applied Nano Materials</i> , 2021, 4, 12170-12179.	2.4	4
16	Constructing 2D $\text{SnS}@ \text{C}$ nanosheets anchored on interconnected carbon nanotube networks as advanced anode materials for lithium ion and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153551.	2.8	20
17	Short-range amorphous carbon nanosheets for oxygen reduction electrocatalysis. <i>Nanoscale Advances</i> , 2020, 2, 5769-5776.	2.2	4
18	Constructing an interface synergistic effect from a $\text{SnS}/\text{MoS}_2$ heterojunction decorating N, S co-doped carbon nanosheets with enhanced sodium ion storage performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22593-22600.	5.2	58

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19	Enhanced thermal conductivity interface by covalently bridging on Cu-Zn alloy with functionalized graphene through pulse electrodeposition. <i>Thin Solid Films</i> , 2020, 709, 138126.	0.8	4
20	<i>In situ</i> photo-derived MnOOH collaborating with Mn <sub>2</sub> Co <sub>2</sub> C@C dual co-catalysts boost photocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17120-17127.	5.2	24
21	FeSe <sub>2</sub> @C Microrods as a Superior Long-Life and High-Rate Anode for Sodium Ion Batteries. <i>ACS Nano</i> , 2020, 14, 17683-17692.	7.3	140
22	Interface-tuned Mo-based nanospheres for efficient oxygen reduction and hydrogen evolution catalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 6713-6722.	2.1	1
23	From spent graphite to recycle graphite anode for high-performance lithium ion batteries and sodium ion batteries. <i>Electrochimica Acta</i> , 2020, 356, 136856.	2.6	106
24	Three-Dimensional Hierarchical MoSe <sub>2</sub> /N, F Co-Doped Carbon Heterostructure Assembled by Ultrathin Nanosheets for Advanced Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14127-14136.	3.2	25
25	Nickel catalyzed graphitized carbon coated LiFe <sub>1-x</sub> Ni <sub>x</sub> PO <sub>4</sub> composites as cathode material for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2020, 353, 136565.	2.6	13
26	Innovative Electrochemical Strategy to Recovery of Cathode and Efficient Lithium Leaching from Spent Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4767-4776.	2.5	54
27	<i>In Situ</i> Photodeposited Construction of Pt@CdS/g-C <sub>3</sub> N <sub>4</sub> @MnO <sub>x</sub> Composite Photocatalyst for Efficient Visible-Light-Driven Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20579-20588.	4.0	111
28	Insight of a Phase Compatible Surface Coating for Long-Durable Li-Rich Layered Oxide Cathode. <i>Advanced Energy Materials</i> , 2019, 9, 1901795.	10.2	129
29	Recent Progresses in Oxygen Reduction Reaction Electrocatalysts for Electrochemical Energy Applications. <i>Electrochemical Energy Reviews</i> , 2019, 2, 518-538.	13.1	176
30	Dual-Confined SiO <sub>2</sub> Embedded in TiO <sub>2</sub> Shell and 3D Carbon Nanofiber Web as Stable Anode Material for Superior Lithium Storage. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801800.	1.9	27
31	Improvement of the Cycling Stability of Li-Rich Layered Mn-Based Oxide Cathodes Modified by Nanoscale LaPO <sub>4</sub> Coating. <i>ACS Applied Energy Materials</i> , 2019, 2, 3532-3541.	2.5	53
32	Zinc-assisted mechanochemical coating of a reduced graphene oxide thin layer on silicon microparticles to achieve efficient lithium-ion battery anodes. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1258-1268.	2.5	5
33	Li-Rich Layered Oxides and Their Practical Challenges: Recent Progress and Perspectives. <i>Electrochemical Energy Reviews</i> , 2019, 2, 277-311.	13.1	158
34	Synthesis of FeS Nanoparticles Embedded in MoS <sub>2</sub> /C Nanosheets as High-Performance Anode Material for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1801132.	1.8	5
35	Improving Electrochemical Performances of Li-Rich Layered Mn-Based Oxide Cathodes through K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> Solution Treatment. <i>ACS Applied Energy Materials</i> , 2019, 2, 1563-1571.	2.5	16
36	Simultaneous Encapsulation of Nano-Si in Redox Assembled rGO Film as Binder-Free Anode for Flexible/Bendable Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3897-3908.	4.0	53

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37	Scalable synthesis of SnCo/NC composite as a high performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 775, 975-981.	2.8	18
38	Electrospray synthesis of nano-Si encapsulated in graphite/carbon microplates as robust anodes for high performance lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 679-687.	2.5	25
39	Effect of Surface Modification with Spinel NiFe <sub>2</sub> O <sub>4</sub> on Enhanced Cyclic Stability of LiMn <sub>2</sub> O <sub>4</sub> Cathode Material in Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 570-578.	3.2	35
40	Three-dimensional flower-like NiCo <sub>2</sub> O <sub>4</sub> /CNT for efficient catalysis of the oxygen evolution reaction. <i>RSC Advances</i> , 2018, 8, 28209-28215.	1.7	16
41	Core/shell Fe <sub>3</sub> O <sub>4</sub> @Fe encapsulated in N-doped three-dimensional carbon architecture as anode material for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15358-15364.	3.8	7
42	Electroless plating of a Sn@Ni/graphite sheet composite with improved cyclability as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2018, 8, 15427-15435.	1.7	10
43	The Influences of Surface Coating Layers on the Properties of Layered/Spinel Heterostructured Li-Rich Cathode Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12969-12979.	3.2	39
44	Ultrasmall MoS <sub>2</sub> embedded in carbon nanosheets-coated Sn/SnO <sub>x</sub> as anode material for high-rate and long life Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4576-4582.	5.2	89
45	In situ growth of NiO nanoparticles on carbon paper as a cathode for rechargeable Li <sup>+</sup> O <sub>2</sub> batteries. <i>RSC Advances</i> , 2017, 7, 23328-23333.	1.7	66
46	Scalable synthesis of Sb/MoS <sub>2</sub> /C composite as high performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 728, 1139-1145.	2.8	21
47	A New Strategy to Stabilize Capacity and Insight into the Interface Behavior in Electrochemical Reaction of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /Graphite System for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33274-33287.	4.0	31
48	Hierarchically Structured Lithium-Rich Layered Oxide with Exposed Active {010} Planes as High-Rate-Capability Cathode for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8970-8981.	3.2	44
49	Spinel/Layered Heterostructured Lithium-Rich Oxide Nanowires as Cathode Material for High-Energy Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41210-41223.	4.0	69
50	Li <sub>1.2</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Mn <sub>0.54</sub> O <sub>2</sub> with Controllable Morphology and Size for High Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25358-25368.	4.0	76
51	Convenient and large-scale synthesis of hollow graphene-like nanocages for electrochemical supercapacitor application. <i>Chemical Engineering Journal</i> , 2017, 313, 1242-1250.	6.6	82
52	Preparation of a Sn@SnO <sub>2</sub> @C@MoS <sub>2</sub> composite as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7185-7189.	5.2	91
53	Large area synthesis of well-dispersed $\hat{\Gamma}^2$ -MnO <sub>2</sub> nanorods and their electrochemical supercapacitive performances. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 544-551.	2.7	18
54	Novel graphitic carbon nitride/graphite carbon/palladium nanocomposite as a high-performance electrocatalyst for the ethanol oxidation reaction. <i>Electrochimica Acta</i> , 2016, 191, 606-615.	2.6	46

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55	Three-dimensional Co <sub>3</sub> O <sub>4</sub> /CNTs/CFP composite as binder-free cathode for rechargeable Li-O <sub>2</sub> batteries. Chemical Engineering Journal, 2016, 296, 28-34.	6.6	40
56	Preparation of Spherical Sn/SnO <sub>2</sub> /Porous Carbon Composite Materials as Anode Material for Lithium-Ion Batteries. Journal of Materials Engineering and Performance, 2015, 24, 1856-1864.	1.2	6
57	Direct growth of flower-like 3D MnO <sub>2</sub> ultrathin nanosheets on carbon paper as efficient cathode catalyst for rechargeable Li-O <sub>2</sub> batteries. RSC Advances, 2015, 5, 72495-72499.	1.7	44
58	Controlled synthesis of three-dimensional interconnected graphene-like nanosheets from graphite microspheres as high-performance anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 21298-21307.	5.2	23
59	Electrochemical performance of SnO <sub>2</sub> /modified graphite composite material as anode of lithium ion battery. Materials Chemistry and Physics, 2015, 167, 303-308.	2.0	8
60	Surfactants assisted synthesis of nano-LiFePO <sub>4</sub> /C composite as cathode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 2025-2035.	5.2	41
61	Surfactant effect on synthesis of core-shell LiFePO <sub>4</sub> /C cathode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2015, 19, 187-194.	1.2	9
62	MnO <sub>2</sub> nanosilks self-assembled micropowders: Facile one-step hydrothermal synthesis and their application as supercapacitor electrodes. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2995-2999.	2.7	12