

# Bing Zhao

## 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.

66  
papers

3,329  
citations

25  
h-index

57  
g-index

70  
ext. papers

3,797  
ext. citations

7.9  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
66	One-pot synthesis and multifunctional surface modification of lithium-rich manganese-based cathode for enhanced structural stability and low-temperature performance.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 615, 1-9	9.3	1
65	Stabilizing Li7P3S11/lithium metal anode interface by in-situ bifunctional composite layer. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132411	14.7	3
64	Preparation of SiOx/TiO2/Si/CNTs composite microspheres as novel anodes for lithium-ion battery with good cycle stability. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 11025	2.1	0
63	Thermal initiation/ultraviolet cross-linking process in polyethylene oxide@Li6/5La3Zr1/5Ta0/25O12-based composite electrolyte with high room-temperature ionic conductivity and long life cycle. <i>Journal of Power Sources</i> , <b>2022</b> , 541, 231660	8.9	1
62	A novel interlayer-expanded tin disulfide/reduced graphene oxide nanocomposite as anode material for high-performance sodium-ion batteries.. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 611, 215-223	9.3	1
61	Realizing Spherical Lithium Deposition by In Situ Formation of a LiS/Li-Sn Alloy Mixed Layer on Carbon Paper for Stable and Safe Li Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48828-48837	9.5	1
60	Doping effects of metal cation on sulfide solid electrolyte/lithium metal interface. <i>Nano Energy</i> , <b>2021</b> , 84, 105906	17.1	13
59	Enhancing lithium storage performance by strongly binding silicon nanoparticles sandwiching between spherical graphene. <i>Applied Surface Science</i> , <b>2021</b> , 539, 148191	6.7	10
58	Sandwich-structured graphene hollow spheres limited MnSnO/SnO heterostructures as anode materials for high-performance lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 586, 1-10	9.3	9
57	Solvent-free synthesis of PEO/garnet composite electrolyte for high-safety all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 860, 157915	5.7	20
56	Incorporation of lithium halogen in Li7P3S11 glass-ceramic and the interface improvement mechanism. <i>Electrochimica Acta</i> , <b>2021</b> , 390, 138849	6.7	4
55	Moderate Specific Surface Areas Help Three-Dimensional Frameworks Achieve Dendrite-Free Potassium-Metal Anodes.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
54	Improvement of cycling stability and high-temperature performance of Li[Ni0.80Co0.15Al0.05]O2 cathode by thin-layer AlF3 coating. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 11141-11149	2.1	149
53	Reaction mechanism of Li2S-P2S5 system in acetonitrile based on wet chemical synthesis of Li7P3S11 solid electrolyte. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124706	14.7	22
52	Size-tunable SnS2 nanoparticles assembled on graphene as anodes for high performance lithium/sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136730	6.7	21
51	Improved low-temperature performance of surface modified lithium-rich Li1.2Ni0.13Co0.13Mn0.54O2 cathode materials for lithium ion batteries. <i>Solid State Ionics</i> , <b>2020</b> , 347, 115245	3.3	8
50	Atomic layer deposition for improved lithiophilicity and solid electrolyte interface stability during lithium plating. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 17-26	19.4	21

49	Ultrastable Li-ion battery anodes by encapsulating SnS nanoparticles in sulfur-doped graphene bubble films. <i>Nanoscale</i> , <b>2020</b> , 12, 3941-3949	7.7	27
48	Li <sub>4.4</sub> Sn encapsulated in hollow graphene spheres for stable Li metal anodes without dendrite formation for long cycle-life of lithium batteries. <i>Nano Energy</i> , <b>2020</b> , 70, 104504	17.1	36
47	Sn restriction and Li <sub>2</sub> S reversible properties of novel sandwiched SnS@graphene hollow-sphere architecture for lithium storage. <i>Electrochimica Acta</i> , <b>2020</b> , 345, 136154	6.7	3
46	Uniform Li Deposition Sites Provided by Atomic Layer Deposition for the Dendrite-free Lithium Metal Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19530-19538	9.5	12
45	Modification based on primary particle level to improve the electrochemical performance of SiO <sub>2</sub> -based anode materials. <i>Journal of Power Sources</i> , <b>2020</b> , 467, 228301	8.9	20
44	Structural phase transformation from SnS/reduced graphene oxide to SnS/sulfur-doped graphene and its lithium storage properties. <i>Nanoscale</i> , <b>2020</b> , 12, 1697-1706	7.7	21
43	Graphene bubble film encapsulated Si@C hollow spheres as a durable anode material for lithium storage. <i>Electrochimica Acta</i> , <b>2020</b> , 361, 137074	6.7	12
42	Composition-dependent lithium storage performances of SnS/SnO <sub>2</sub> heterostructures sandwiching between spherical graphene. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 253-262	6.7	30
41	Porous ZnO/CoO/N-doped carbon nanocages synthesized via pyrolysis of complex metal-organic framework (MOF) hybrids as an advanced lithium-ion battery anode. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2019</b> , 75, 969-978	0.8	6
40	Construction of SnS-SnO heterojunctions decorated on graphene nanosheets with enhanced visible-light photocatalytic performance. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2019</b> , 75, 812-821	0.8	1
39	In-situ lithiation synthesis of nano-sized lithium sulfide/graphene aerogel with covalent bond interaction for inhibiting the polysulfides shuttle of Li-S batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 312, 282-290	6.7	14
38	In-situ solvothermal phosphorization from nano-sized tetragonal-Sn to rhombohedral-Sn <sub>4</sub> P <sub>3</sub> embedded in hollow graphene sphere with high capacity and stability. <i>Electrochimica Acta</i> , <b>2019</b> , 312, 263-271	6.7	14
37	Stabilizing the reversible capacity of SnO <sub>2</sub> /graphene composites by Cu nanoparticles. <i>Chemical Engineering Journal</i> , <b>2019</b> , 367, 45-54	14.7	41
36	Sandwich-like SnS/Graphene/SnS with Expanded Interlayer Distance as High-Rate Lithium/Sodium-Ion Battery Anode Materials. <i>ACS Nano</i> , <b>2019</b> , 13, 9100-9111	16.7	178
35	A double-shelled structure confining sulfur for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 811, 151434	5.7	13
34	Hierarchically assembled 3D nanoflowers and 0D nanoparticles of nickel sulfides on reduced graphene oxide with excellent lithium storage performances. <i>Applied Surface Science</i> , <b>2018</b> , 439, 386-393	6.7	18
33	In-situ sulfuration synthesis of sandwiched spherical tin sulfide/sulfur-doped graphene composite with ultra-low sulfur content. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 81-89	8.9	27
32	Sandwiched spherical tin dioxide/graphene with a three-dimensional interconnected closed pore structure for lithium storage. <i>Nanoscale</i> , <b>2018</b> , 10, 16116-16126	7.7	25

31	Controlled scalable synthesis of yolk-shell structured large-size industrial silicon with interconnected carbon network for lithium storage. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1702-1711	6.7	16
30	Enhancing lithium-ion batteries performance via electron-beam irradiation strategies: A case study of graphene aerogels loaded with SnO <sub>2</sub> quantum dots. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 769-776	6.7	10
29	One-step hydrothermal reduction synthesis of tiny Sn/SnO <sub>2</sub> nanoparticles sandwiching between spherical graphene with excellent lithium storage cycling performances. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 72-80	6.7	18
28	Growth of MoS <sub>2</sub> Nanoflowers with Expanded Interlayer Distance onto N-Doped Graphene for Reversible Lithium Storage. <i>ChemElectroChem</i> , <b>2018</b> , 5, 2263-2270	4.3	20
27	Inhibiting the shuttle effect of LiS battery with a graphene oxide coating separator: Performance improvement and mechanism study. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 929-938	8.9	90
26	Core-shell Li <sub>2</sub> S@Li <sub>3</sub> PS <sub>4</sub> nanoparticles incorporated into graphene aerogel for lithium-sulfur batteries with low potential barrier and overpotential. <i>Journal of Power Sources</i> , <b>2017</b> , 353, 167-175	8.9	26
25	Three-Dimensional Interconnected Spherical Graphene Framework/SnS Nanocomposite for Anode Material with Superior Lithium Storage Performance: Complete Reversibility of LiS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1407-1415	9.5	86
24	Lithiation-assisted exfoliation and reduction of SnS to SnS decorated on lithium-integrated graphene for efficient energy storage. <i>Nanoscale</i> , <b>2017</b> , 9, 17922-17932	7.7	39
23	Facile fabrication and application of SnO <sub>2</sub> /SnO nanocomposites: insight into chain-like frameworks, heterojunctions and quantum dots. <i>RSC Advances</i> , <b>2016</b> , 6, 82096-82102	3.7	13
22	Facile synthesis of hierarchical MnO superstructures and efficient catalytic performance. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 26602-26608	3.6	6
21	Facile synthesis of ultrathin, undersized MoS <sub>2</sub> /graphene for lithium-ion battery anodes. <i>RSC Advances</i> , <b>2016</b> , 6, 99833-99841	3.7	15
20	Self-assembly of ultrathin MnO <sub>2</sub> /graphene with three-dimension hierarchical structure by ultrasonic-assisted co-precipitation method. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 663, 180-186	5.7	26
19	MoS <sub>2</sub> /graphene nanocomposite with enlarged interlayer distance as a high performance anode material for lithium-ion battery. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3151-3160	2.5	21
18	A novel Fe <sub>2</sub> O <sub>3</sub> rhombohedra/graphene composite as a high stability electrode for lithium-ion batteries. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 761-769	2.5	5
17	Irradiated Graphene Loaded with SnO <sub>2</sub> Quantum Dots for Energy Storage. <i>ACS Nano</i> , <b>2015</b> , 9, 11351-61	16.7	63
16	Flexible of multiwalled carbon nanotubes/manganese dioxide nanoflake textiles for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 246-253	6.7	54
15	One-step hydrothermal synthesis of three-dimensional porous graphene aerogels/sulfur nanocrystals for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, 509-516	5.7	41
14	Synthesis of nanoparticles, nanorods, and mesoporous SnO <sub>2</sub> as anode materials for lithium-ion batteries. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 609-616	2.5	16

13	Nanorod-like Fe <sub>2</sub> O <sub>3</sub> /graphene composite as a high-performance anode material for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 53-60	2.6	44
12	A facile hydrothermal synthesis of graphene porous NiO nanocomposite and its application in electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2013</b> , 91, 173-178	6.7	110
11	Hierarchical self-assembly of microscale leaf-like CuO on graphene sheets for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 367-373	13	156
10	Chemical lithiation route to size-controllable LiFePO <sub>4</sub> /C nanocomposite. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 611-617	2.6	7
9	Synthesis of porous Li <sub>2</sub> MnO <sub>3</sub> -LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> nanoplates via colloidal crystal template. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 1505-1511	2.5	8
8	A novel graphene modified LiMnPO <sub>4</sub> as a performance-improved cathode material for lithium-ion batteries. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2584-2589	2.5	13
7	Supercapacitor performances of thermally reduced graphene oxide. <i>Journal of Power Sources</i> , <b>2012</b> , 198, 423-427	8.9	328
6	Graphene modified Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as a high-performance cathode material for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 377-383	6.7	54
5	Monolayer graphene/NiO nanosheets with two-dimension structure for supercapacitors. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18792		277
4	Bivalent tin ion assisted reduction for preparing graphene/SnO <sub>2</sub> composite with good cyclic performance and lithium storage capacity. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7340-7346	6.7	100
3	Insight on fractal assessment strategies for tin dioxide thin films. <i>ACS Nano</i> , <b>2010</b> , 4, 1202-8	16.7	53
2	Morphology and electrical properties of carbon coated LiFePO <sub>4</sub> cathode materials. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 462-466	8.9	94
1	Li Storage Properties of Disordered Graphene Nanosheets. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3136-3142	9.6	879