

Bing Zhao

List of Publications by Year in descending order

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69
papers

4,259
citations

159525

30
h-index

106281

65
g-index

70
all docs

70
docs citations

70
times ranked

6105
citing authors

#	ARTICLE	IF	CITATIONS
1	Li Storage Properties of Disordered Graphene Nanosheets. <i>Chemistry of Materials</i> , 2009, 21, 3136-3142.	3.2	970
2	Supercapacitor performances of thermally reduced graphene oxide. <i>Journal of Power Sources</i> , 2012, 198, 423-427.	4.0	385
3	Monolayer graphene/NiO nanosheets with two-dimension structure for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011, 21, 18792.	6.7	305
4	Sandwich-like SnS ₂ /Graphene/SnS ₂ with Expanded Interlayer Distance as High-Rate Lithium/Sodium-Ion Battery Anode Materials. <i>ACS Nano</i> , 2019, 13, 9100-9111.	7.3	276
5	Hierarchical self-assembly of microscale leaf-like CuO on graphene sheets for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 367-373.	5.2	177
6	A facile hydrothermal synthesis of graphene porous NiO nanocomposite and its application in electrochemical capacitors. <i>Electrochimica Acta</i> , 2013, 91, 173-178.	2.6	115
7	Bivalent tin ion assisted reduction for preparing graphene/SnO ₂ composite with good cyclic performance and lithium storage capacity. <i>Electrochimica Acta</i> , 2011, 56, 7340-7346.	2.6	109
8	Inhibiting the shuttle effect of Li-S battery with a graphene oxide coating separator: Performance improvement and mechanism study. <i>Journal of Power Sources</i> , 2017, 342, 929-938.	4.0	108
9	Three-Dimensional Interconnected Spherical Graphene Framework/SnS Nanocomposite for Anode Material with Superior Lithium Storage Performance: Complete Reversibility of Li ₂ S. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1407-1415.	4.0	101
10	Morphology and electrical properties of carbon coated LiFePO ₄ cathode materials. <i>Journal of Power Sources</i> , 2009, 189, 462-466.	4.0	100
11	Irradiated Graphene Loaded with SnO ₂ Quantum Dots for Energy Storage. <i>ACS Nano</i> , 2015, 9, 11351-11361.	7.3	76
12	Solvent-free synthesis of PEO/garnet composite electrolyte for high-safety all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2021, 860, 157915.	2.8	69
13	Li _{4.4} 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> , 2020, 70, 104504.	8.2	61
14	Insight on Fractal Assessment Strategies for Tin Dioxide Thin Films. <i>ACS Nano</i> , 2010, 4, 1202-1208.	7.3	59
15	Graphene modified Li ₃ V ₂ (PO ₄) ₃ as a high-performance cathode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2012, 85, 377-383.	2.6	58
16	Flexible of multiwalled carbon nanotubes/manganese dioxide nanoflake textiles for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2015, 153, 246-253.	2.6	58
17	Doping effects of metal cation on sulfide solid electrolyte/lithium metal interface. <i>Nano Energy</i> , 2021, 84, 105906.	8.2	56
18	One-step hydrothermal synthesis of three-dimensional porous graphene aerogels/sulfur nanocrystals for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2015, 645, 509-516.	2.8	49

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19	Stabilizing the reversible capacity of SnO ₂ /graphene composites by Cu nanoparticles. <i>Chemical Engineering Journal</i> , 2019, 367, 45-54.	6.6	49
20	Reaction mechanism of Li ₂ S-P ₂ S ₅ system in acetonitrile based on wet chemical synthesis of Li ₇ P ₃ S ₁₁ solid electrolyte. <i>Chemical Engineering Journal</i> , 2020, 393, 124706.	6.6	49
21	Atomic layer deposition for improved lithiophilicity and solid electrolyte interface stability during lithium plating. <i>Energy Storage Materials</i> , 2020, 28, 17-26.	9.5	47
22	Nanorod-like Fe ₂ O ₃ /graphene composite as a high-performance anode material for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 53-60.	1.5	46
23	Lithiation-assisted exfoliation and reduction of SnS ₂ to SnS decorated on lithium-integrated graphene for efficient energy storage. <i>Nanoscale</i> , 2017, 9, 17922-17932.	2.8	44
24	In-situ construction of Li-Mg/LiF conductive layer to achieve an intimate lithium-garnet interface for all-solid-state Li metal battery. <i>Energy Storage Materials</i> , 2022, 50, 810-818.	9.5	43
25	Core-shell Li ₂ S@Li ₃ PS ₄ nanoparticles incorporated into graphene aerogel for lithium-sulfur batteries with low potential barrier and overpotential. <i>Journal of Power Sources</i> , 2017, 353, 167-175.	4.0	37
26	Size-tunable SnS ₂ nanoparticles assembled on graphene as anodes for high performance lithium/sodium-ion batteries. <i>Electrochimica Acta</i> , 2020, 354, 136730.	2.6	36
27	Ultrastable Li-ion battery anodes by encapsulating SnS nanoparticles in sulfur-doped graphene bubble films. <i>Nanoscale</i> , 2020, 12, 3941-3949.	2.8	36
28	In-situ sulfuration synthesis of sandwiched spherical tin sulfide/sulfur-doped graphene composite with ultra-low sulfur content. <i>Journal of Power Sources</i> , 2018, 378, 81-89.	4.0	35
29	Composition-dependent lithium storage performances of SnS/SnO ₂ heterostructures sandwiching between spherical graphene. <i>Electrochimica Acta</i> , 2019, 300, 253-262.	2.6	35
30	Self-assembly of ultrathin MnO ₂ /graphene with three-dimension hierarchical structure by ultrasonic-assisted co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2016, 663, 180-186.	2.8	33
31	Modification based on primary particle level to improve the electrochemical performance of SiO ₂ -based anode materials. <i>Journal of Power Sources</i> , 2020, 467, 228301.	4.0	33
32	Sandwiched spherical tin dioxide/graphene with a three-dimensional interconnected closed pore structure for lithium storage. <i>Nanoscale</i> , 2018, 10, 16116-16126.	2.8	30
33	Uniform Li Deposition Sites Provided by Atomic Layer Deposition for the Dendrite-free Lithium Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19530-19538.	4.0	30
34	Structural phase transformation from SnS ₂ /reduced graphene oxide to SnS/sulfur-doped graphene and its lithium storage properties. <i>Nanoscale</i> , 2020, 12, 1697-1706.	2.8	29
35	Stabilizing Li ₇ P ₃ S ₁₁ /lithium metal anode interface by in-situ bifunctional composite layer. <i>Chemical Engineering Journal</i> , 2022, 429, 132411.	6.6	27
36	One-step hydrothermal reduction synthesis of tiny Sn/SnO ₂ nanoparticles sandwiching between spherical graphene with excellent lithium storage cycling performances. <i>Electrochimica Acta</i> , 2018, 292, 72-80.	2.6	25

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37	Graphene bubble film encapsulated Si@C hollow spheres as a durable anode material for lithium storage. <i>Electrochimica Acta</i> , 2020, 361, 137074.	2.6	25
38	Growth of MoS ₂ Nanoflowers with Expanded Interlayer Distance onto N-Doped Graphene for Reversible Lithium Storage. <i>ChemElectroChem</i> , 2018, 5, 2263-2270.	1.7	24
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> , 2019, 312, 282-290.	2.6	24
40	In-situ solvothermal phosphorization from nano-sized tetragonal-Sn to rhombohedral-Sn ₄ P ₃ embedded in hollow graphene sphere with high capacity and stability. <i>Electrochimica Acta</i> , 2019, 312, 263-271.	2.6	24
41	MoS ₂ /graphene nanocomposite with enlarged interlayer distance as a high performance anode material for lithium-ion battery. <i>Journal of Materials Research</i> , 2016, 31, 3151-3160.	1.2	23
42	Hierarchically assembled 3D nanoflowers and 0D nanoparticles of nickel sulfides on reduced graphene oxide with excellent lithium storage performances. <i>Applied Surface Science</i> , 2018, 439, 386-393.	3.1	23
43	Sandwich-structured graphene hollow spheres limited Mn ₂ SnO ₄ /SnO ₂ heterostructures as anode materials for high-performance lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 1-10.	5.0	23
44	Incorporation of lithium halogen in Li ₇ P ₃ S ₁₁ glass-ceramic and the interface improvement mechanism. <i>Electrochimica Acta</i> , 2021, 390, 138849.	2.6	21
45	A double-shelled structure confining sulfur for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151434.	2.8	20
46	Enhancing lithium storage performance by strongly binding silicon nanoparticles sandwiching between spherical graphene. <i>Applied Surface Science</i> , 2021, 539, 148191.	3.1	20
47	Synthesis of nanoparticles, nanorods, and mesoporous SnO ₂ as anode materials for lithium-ion batteries. <i>Journal of Materials Research</i> , 2014, 29, 609-616.	1.2	18
48	Controlled scalable synthesis of yolk-shell structured large-size industrial silicon with interconnected carbon network for lithium storage. <i>Electrochimica Acta</i> , 2018, 283, 1702-1711.	2.6	18
49	Facile fabrication and application of SnO ₂ @ZnO nanocomposites: insight into chain-like frameworks, heterojunctions and quantum dots. <i>RSC Advances</i> , 2016, 6, 82096-82102.	1.7	17
50	Novel Polymer/Barium Intercalated Vanadium Pentoxide with Expanded Interlayer Spacing as High-Rate and Durable Cathode for Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17415-17425.	4.0	16
51	Moderate Specific Surface Areas Help Three-Dimensional Frameworks Achieve Dendrite-Free Potassium-Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 900-909.	4.0	16
52	Facile synthesis of ultrathin, undersized MoS ₂ /graphene for lithium-ion battery anodes. <i>RSC Advances</i> , 2016, 6, 99833-99841.	1.7	15
53	Improved low-temperature performance of surface modified lithium-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode materials for lithium ion batteries. <i>Solid State Ionics</i> , 2020, 347, 115245.	1.3	15
54	A novel graphene modified LiMnPO ₄ as a performance-improved cathode material for lithium-ion batteries. <i>Journal of Materials Research</i> , 2013, 28, 2584-2589.	1.2	14

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55	Enhancing lithium-ion batteries performance via electron-beam irradiation strategies: A case study of graphene aerogels loaded with SnO ₂ quantum dots. <i>Electrochimica Acta</i> , 2018, 281, 769-776.	2.6	13
56	Porous ZnO/Co ₃ O ₄ /N-doped carbon nanocages synthesized <i>via</i> pyrolysis of complex metal-organic framework (MOF) hybrids as an advanced lithium-ion battery anode. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 969-978.	0.2	13
57	Realizing Spherical Lithium Deposition by In Situ Formation of a Li ₂ S/Li-Sn Alloy Mixed Layer on Carbon Paper for Stable and Safe Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48828-48837.	4.0	10
58	Chemical lithiation route to size-controllable LiFePO ₄ /C nanocomposite. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 611-617.	1.5	9
59	Synthesis of porous Li ₂ MnO ₃ -LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ nanoplates via colloidal crystal template. <i>Journal of Materials Research</i> , 2013, 28, 1505-1511.	1.2	8
60	Construction of a High-Stability and Low-Nucleation-Barrier Cu ₃ Sn Alloy Layer on Carbon Paper for Dendrite-Free Li Metal Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2930-2938.	4.0	8
61	A novel Fe ₂ O ₃ rhombohedra/graphene composite as a high stability electrode for lithium-ion batteries. <i>Journal of Materials Research</i> , 2015, 30, 761-769.	1.2	7
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> , 2022, 611, 215-223.	5.0	7
63	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> , 2022, 615, 1-9.	5.0	6
64	Construction of SnS ₂ -SnO ₂ heterojunctions decorated on graphene nanosheets with enhanced visible-light photocatalytic performance. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 812-821.	0.2	4
65	Preparation of SiO _x -TiO ₂ /Si/CNTs composite microspheres as novel anodes for lithium-ion battery with good cycle stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 11025-11037.	1.1	4
66	Cu Foam-Loaded Cu ₂ Mg Alloy with High Electrochemical Stability to Regulate the Nucleation of Lithium for Dendrite-Free Lithium Metal Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7149-7157.	3.2	4
67	Thermal initiation/ultraviolet cross-linking process in polyethylene oxide@Li ₆ La ₃ Zr ₁ Ta _{0.25} O ₁₂ -based composite electrolyte with high room-temperature ionic conductivity and long life cycle. <i>Journal of Power Sources</i> , 2022, 541, 231660.	4.0	4
68	Sn restriction and Li ₂ S reversible properties of novel sandwiched SnS@graphene hollow-sphere architecture for lithium storage. <i>Electrochimica Acta</i> , 2020, 345, 136154.	2.6	3
69	Improvement of cycling stability and high-temperature performance of Li[Ni _{0.80} Co _{0.15} Al _{0.05}]O ₂ cathode by thin-layer AlF ₃ coating. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11141-11149.	1.1	1