

Bo Wang

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.

108
papers

4,412
citations

37
h-index

64
g-index

110
ext. papers

5,449
ext. citations

8.5
avg, IF

6.03
L-index

#	Paper	IF	Citations
108	A V ₂ O ₃ @Ni cathode material for aqueous zinc-ion batteries with boosted zinc-ion storage performance. <i>Rare Metals</i> , 2022 , 41, 1605	5.5	1
107	Suppressing lithium dendrites within inorganic solid-state electrolytes. <i>Cell Reports Physical Science</i> , 2022 , 3, 100706	6.1	2
106	Iron selenide nanoparticles-encapsulated within bamboo-like N-doped carbon nanotubes as composite anodes for superior lithium and sodium-ion storage. <i>Chemical Engineering Journal</i> , 2022 , 435, 135185	14.7	0
105	Seamless alloying stabilizes solid-electrolyte interphase for highly reversible lithium metal anode. <i>Cell Reports Physical Science</i> , 2022 , 3, 100785	6.1	5
104	Construction of air-stable pre-lithiated SiO _x anodes for next-generation high-energy-density lithium-ion batteries. <i>Cell Reports Physical Science</i> , 2022 , 100872	6.1	1
103	Study on modification and failure of precast solid electrolyte interface film on Li metal anodes. <i>International Journal of Energy Research</i> , 2021 , 45, 14034-14046	4.5	
102	Synergistic Interfacial and Doping Engineering of Heterostructured NiCo(OH)-CoW as an Efficient Alkaline Hydrogen Evolution Electrocatalyst. <i>Nano-Micro Letters</i> , 2021 , 13, 120	19.5	8
101	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021 , 4, 1768-1800	12.7	18
100	Electrodeposition: Synthesis of advanced transition metal-based catalyst for hydrogen production via electrolysis of water. <i>Journal of Energy Chemistry</i> , 2021 , 57, 547-566	12	28
99	Interface coupling in FeOOH/MXene heterojunction for highly reversible lithium-ion storage. <i>Materials Today Energy</i> , 2021 , 19, 100584	7	5
98	Synergistic nanostructure and heterointerface design propelled ultra-efficient in-situ self-transformation of zinc-ion battery cathodes with favorable kinetics. <i>Nano Energy</i> , 2021 , 81, 105601	17.1	43
97	Long-term cycling stability of NiCoS hollow nanowires supported on biomass-derived ultrathin N-doped carbon 3D networks as an anode for lithium-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 1002-1005	5.8	3
96	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. <i>ACS Nano</i> , 2021 , 15, 2197-2218	16.7	58
95	Stress-release design for high-capacity and long-time lifespan aqueous zinc-ion batteries. <i>Materials Today Energy</i> , 2021 , 21, 100799	7	3
94	Modifying hydrogel electrolyte to induce zinc deposition for dendrite-free zinc metal anode. <i>Electrochimica Acta</i> , 2021 , 393, 139094	6.7	8
93	Soft-templated synthesis of core-shell heterostructured Ni ₃ S ₂ @polypyrrole nanotube aerogels as anode materials for high-performance lithium ion batteries. <i>New Journal of Chemistry</i> , 2021 , 45, 13127-13136	3.6	2
92	Free-standing 3D network-like cathode based on biomass-derived N-doped carbon/graphene/g-C ₃ N ₄ hybrid ultrathin sheets as sulfur host for high-rate Li-S battery. <i>Renewable Energy</i> , 2020 , 158, 509-519	8.1	23

91	Anodic Oxidation Strategy toward Structure-Optimized VO Cathode Electrolyte Regulation for Zn-Ion Storage. <i>ACS Nano</i> , 2020 , 14, 7328-7337	16.7	101
90	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. <i>Advanced Materials</i> , 2020 , 32, e2000151	24	56
89	In situ growth of CuO submicro-sheets on optimized Cu foam to induce uniform Li deposition and stripping for stable Li metal batteries. <i>Electrochimica Acta</i> , 2020 , 339, 135941	6.7	19
88	Graphene-Modified Mesoporous Iron Phosphate as Superior Binary Sulfur Host for Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020 , 8, 1901462	3.5	3
87	Construction of Dual-Carbon Co-Modified LiFePO ₄ Nanocrystals via Microreactor Strategy for High-Performance Lithium Ion Batteries. <i>Energy Technology</i> , 2020 , 8, 2000171	3.5	3
86	Sodiophilic Decoration of a Three-Dimensional Conductive Scaffold toward a Stable Na Metal Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5452-5463	8.3	17
85	A rational VO ₂ nanotube/graphene binary sulfur host for superior lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155504	5.7	11
84	A MIL-47(V) derived hierarchical lasagna-structured VO@C hollow microcuboid as an efficient sulfur host for high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 4552-4561	7.7	19
83	Bioinspired hierarchical cross-linked graphene-silicon nanofilms via synergistic interfacial interactions as integrated negative electrodes for high-performance lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2105-2114	3.6	2
82	Mo ₂ C-embedded biomass-derived honeycomb-like nitrogen-doped carbon nanosheet/graphene aerogel films for highly efficient electrocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2020 , 44, 1147-1156	3.6	12
81	Holey graphene modified LiFePO ₄ hollow microsphere as an efficient binary sulfur host for high-performance lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 26, 433-442	19.4	36
80	Precast solid electrolyte interface film on Li metal anode toward longer cycling life. <i>Ionics</i> , 2020 , 26, 1711-1719	17.1	34
79	Synergistic deficiency and heterojunction engineering boosted VO ₂ redox kinetics for aqueous zinc-ion batteries with superior comprehensive performance. <i>Energy Storage Materials</i> , 2020 , 33, 390-398	19.4	79
78	Modified solid-electrolyte interphase toward stable Li metal anode. <i>Nano Energy</i> , 2020 , 77, 105308	17.1	34
77	Metal-organic framework derived amorphous VO coated FeO/C hierarchical nanospindle as anode material for superior lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 16901-16909	7.7	11
76	Biomolecule-assisted synthesis of porous network-like Ni ₃ S ₂ nanoarchitectures assembled with ultrathin nanosheets as integrated negative electrodes for high-performance lithium storage. <i>New Journal of Chemistry</i> , 2020 , 44, 14453-14462	3.6	3
75	Solid Electrolyte Interphases on Sodium Metal Anodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2004891	15.6	56
74	Graphene-based composites for electrochemical energy storage. <i>Energy Storage Materials</i> , 2020 , 24, 22-51	19.4	214

73	Three-dimensional nitrogen-doped graphene aerogel toward dendrite-free lithium-metal anode. <i>Ionics</i> , 2020 , 26, 13-22	2.7	6
72	Lithium fluoride additive for inorganic LiAlCl ₄ /BSO ₂ electrolyte toward stable lithium metal anode. <i>Electrochimica Acta</i> , 2020 , 345, 136193	6.7	3
71	Stabilizing the structure of LiMnFePO ₄ via the formation of concentration-gradient hollow spheres with Fe-rich surfaces. <i>Nanoscale</i> , 2019 , 11, 3933-3944	7.7	19
70	Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-Ion Electrode Densities. <i>Advanced Energy Materials</i> , 2019 , 9, 1803390	21.8	20
69	Highly conductive graphene-modified TiO ₂ hierarchical film electrode for flexible Li-ion battery anode. <i>Electrochimica Acta</i> , 2019 , 313, 10-19	6.7	17
68	A LiAlCl ₄ /BSO ₂ -NaAlCl ₄ /BSO ₂ binary inorganic electrolyte with improved electrochemical performance for Li-metal batteries. <i>Ionics</i> , 2019 , 25, 4751-4760	2.7	2
67	LiAlCl ₄ /BSO ₂ : a promising inorganic electrolyte for stable Li metal anode at room and low temperature. <i>Ionics</i> , 2019 , 25, 4137-4147	2.7	4
66	Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. <i>ACS Energy Letters</i> , 2019 , 4, 1717-1724	20.1	78
65	A stable protective layer toward high-performance lithium metal battery. <i>Ionics</i> , 2019 , 25, 4067-4074	2.7	4
64	Metal-organic framework derived 3D graphene decorated NaTi(PO) for fast Na-ion storage. <i>Nanoscale</i> , 2019 , 11, 7347-7357	7.7	16
63	Purifying the Phase of NaTi(PO) for Enhanced Na Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10663-10671	9.5	11
62	A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18126-18134	13	18
61	MoO ₂ nanobelts modified with an MOF-derived carbon layer for high performance lithium-ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 664-670	5.7	16
60	Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. <i>ACS Nano</i> , 2019 , 13, 12219-12229	16.7	76
59	Hierarchical heterostructures of NiO nanosheet arrays grown on pine twig-like NiS@Ni ₃ S ₂ frameworks as free-standing integrated anode for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 356, 245-254	14.7	32
58	Hierarchical design of hollow Co-Ni LDH nanocages strung by MnO ₂ nanowire with enhanced pseudocapacitive properties. <i>Energy Storage Materials</i> , 2019 , 19, 370-378	19.4	80
57	A LiFePO ₄ /Li ₂ Sn hybrid system with enhanced Li-ion storage performance. <i>New Journal of Chemistry</i> , 2018 , 42, 6626-6630	3.6	9
56	Red phosphorus encapsulated in porous carbon derived from cigarette filter solid waste as a promising anode material for lithium-ion batteries. <i>Ionics</i> , 2018 , 24, 3393-3403	2.7	7

55	An ultrahigh pressure homogenization technique for easily exfoliating few-layer phosphorene from bulk black phosphorus. <i>Physica B: Condensed Matter</i> , 2018 , 537, 18-22	2.8	2
54	Graphene-immobilized flower-like Ni ₃ S ₂ nanoflakes as a stable binder-free anode material for sodium-ion batteries. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 88-93	3.1	18
53	3D self-supported hierarchical core/shell structured MnCo ₂ O ₄ @CoS arrays for high-energy supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1822-1831	13	108
52	A three-dimensional cathode matrix with bi-confinement effect of polysulfide for lithium-sulfur battery. <i>Applied Surface Science</i> , 2018 , 427, 396-404	6.7	22
51	A study on LiFePO ₄ /graphite cells with built-in LiTiO reference electrodes.. <i>RSC Advances</i> , 2018 , 8, 18597-18603	3.9	10
50	LiAlCl ₄ /BSO ₂ as a high conductive, non-flammable and inorganic non-aqueous liquid electrolyte for lithium ion batteries. <i>Electrochimica Acta</i> , 2018 , 286, 77-85	6.7	12
49	Characteristics of Welding and Arc Pressure in the Plasma-TIG Coupled Arc Welding Process. <i>Metals</i> , 2018 , 8, 512	2.3	8
48	Hot-assisted Ultrasonic Additive Manufacturing Method for Al/Cu Layer-metal Composites. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018 , 54, 95	1.3	3
47	A 3D conductive scaffold with lithiophilic modification for stable lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17967-17976	13	45
46	N-doped graphene/Bi nanocomposite with excellent electrochemical properties for lithium-ion batteries. <i>Ionics</i> , 2017 , 23, 1407-1415	2.7	21
45	Core-shell structured Fe ₃ O ₄ @NiS nanocomposite as high-performance anode material for alkaline nickel-iron rechargeable batteries. <i>Electrochimica Acta</i> , 2017 , 231, 479-486	6.7	27
44	From biomass chitin to mesoporous nanosheets assembled loofa sponge-like N-doped carbon/g-C ₃ N ₄ 3D network architectures as ultralow-cost bifunctional oxygen catalysts. <i>Microporous and Mesoporous Materials</i> , 2017 , 240, 216-226	5.3	42
43	Electrochemical performance of Bi ₂ O ₂ CO ₃ nanosheets as negative electrode material for supercapacitors. <i>Ceramics International</i> , 2017 , 43, 9310-9316	5.1	12
42	In situ template synthesis of hollow nanospheres assembled from NiCoS@C ultrathin nanosheets with high electrochemical activities for lithium storage and ORR catalysis. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11554-11562	3.6	40
41	Characterization and Expression Pattern Analysis of the T-Complex Protein-1 Zeta Subunit in <i>Musca domestica</i> L (Diptera). <i>Journal of Insect Science</i> , 2017 , 17,	2	4
40	LiFePO ₄ quantum-dots composite synthesized by a general microreactor strategy for ultra-high-rate lithium ion batteries. <i>Nano Energy</i> , 2017 , 42, 363-372	17.1	101
39	A novel 3D POMOF based on Wells-Dawson arsenomolybdates with excellent photocatalytic and lithium-ion battery performance. <i>CrystEngComm</i> , 2017 , 19, 7154-7161	3.3	22
38	Graphene foam supported multilevel network-like NiCo ₂ S ₄ nanoarchitectures for robust lithium storage and efficient ORR catalysis. <i>New Journal of Chemistry</i> , 2017 , 41, 115-125	3.6	24

37	Li ₃ V ₂ (PO ₄) ₃ as a cathode additive for the over-discharge protection of lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 76933-76937	3.7	7
36	Pitting corrosion of naturally aged AA 7075 aluminum alloys with bimodal grain size. <i>Corrosion Science</i> , 2016 , 113, 1-16	6.8	49
35	All-climate sodium ion batteries based on the NASICON electrode materials. <i>Nano Energy</i> , 2016 , 30, 756-761	7.1	56
34	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> , 2016 , 26, 7754-7765	15.6	210
33	Carbon nanotube decorated NaTi ₂ (PO ₄) ₃ /C nanocomposite for a high-rate and low-temperature sodium-ion battery anode. <i>RSC Advances</i> , 2016 , 6, 70277-70283	3.7	42
32	Graphene-reinforced aluminum matrix composites prepared by spark plasma sintering. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016 , 23, 723-729	3.1	79
31	Optically active multi-helical erythrocyte-like Ln(OH)CO ₃ (Ln = La, Ce, Pr and Sm). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20261-5	3.6	2
30	NiCo ₂ S ₄ nanotube arrays grown on flexible nitrogen-doped carbon foams as three-dimensional binder-free integrated anodes for high-performance lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4505-12	3.6	78
29	Improving weld strength of arc-assisted ultrasonic seam welded Mg/Al joint with Sn interlayer. <i>Materials and Design</i> , 2016 , 98, 262-271	8.1	25
28	Self-assembly of ultrathin mesoporous CoMoO ₄ nanosheet networks on flexible carbon fabric as a binder-free anode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2016 , 40, 2259-2267	3.6	43
27	Hierarchical NiMoO ₄ nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 908-15	3.6	71
26	Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11789-11799	13	62
25	A Hierarchical Porous C@LiFePO ₄ /Carbon Nanotubes Microsphere Composite for High-Rate Lithium-Ion Batteries: Combined Experimental and Theoretical Study. <i>Advanced Energy Materials</i> , 2016 , 6, 1600426	21.8	162
24	Flexible Transparent Molybdenum Trioxide Nanopaper for Energy Storage. <i>Advanced Materials</i> , 2016 , 28, 6353-8	24	172
23	Mesoporous NiCo based nanowire arrays supported on three-dimensional N-doped carbon foams as non-noble catalysts for efficient oxygen reduction reaction. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 128-137	5.3	18
22	Superior methanol electrooxidation activity and CO tolerance of mesoporous helical nanospindle-like CeO ₂ modified Pt/C. <i>RSC Advances</i> , 2015 , 5, 64261-64267	3.7	11
21	Desired crystal oriented LiFePO ₄ nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. <i>Nanoscale</i> , 2015 , 7, 8819-28	7.7	92
20	Electrophoretic deposition of hierarchical Co ₃ O ₄ @graphene hybrid films as binder-free anodes for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 33438-33444	3.7	30

19	Vertically aligned sulfur-graphene nanowalls on substrates for ultrafast lithium-sulfur batteries. <i>Nano Letters</i> , 2015 , 15, 3073-9	11.5	167
18	Nanocrystal-constructed mesoporous CoFe ₂ O ₄ /nanowire arrays aligned on flexible carbon fabric as integrated anodes with enhanced lithium storage properties. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21476-84	3.6	27
17	One-step synthesis of the nickel foam supported network-like ZnO nanoarchitectures assembled with ultrathin mesoporous nanosheets with improved lithium storage performance. <i>RSC Advances</i> , 2015 , 5, 81341-81347	3.7	17
16	Controllable synthesis of micro/nano-structured MnCo ₂ O ₄ with multiporous core-shell architectures as high-performance anode materials for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2015 , 39, 8416-8423	3.6	20
15	Facile and large-scale fabrication of hierarchical ZnFe ₂ O ₄ /graphene hybrid films as advanced binder-free anodes for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2015 , 39, 1725-1733	3.6	26
14	Self-assembly of 2D sandwich-structured MnFe ₂ O ₄ /graphene composites for high-performance lithium storage. <i>Materials Research Bulletin</i> , 2015 , 61, 369-374	5.1	25
13	From Commercial Sponge Toward 3D Graphene/Silicon Networks for Superior Lithium Storage. <i>Advanced Energy Materials</i> , 2015 , 5, 1500289	21.8	101
12	Integration of network-like porous NiMoO ₄ nanoarchitectures assembled with ultrathin mesoporous nanosheets on three-dimensional graphene foam for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13691-13698	13	67
11	A three-dimensional porous LiFePO ₄ cathode material modified with a nitrogen-doped graphene aerogel for high-power lithium ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 869-875	35.4	351
10	In situ one-step synthesis of CoFe ₂ O ₄ /graphene nanocomposites as high-performance anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014 , 129, 33-39	6.7	105
9	Mesoporous carbon-coated LiFePO ₄ nanocrystals co-modified with graphene and Mg ²⁺ doping as superior cathode materials for lithium ion batteries. <i>Nanoscale</i> , 2014 , 6, 986-95	7.7	119
8	Preparation of nickel nanoparticle/graphene composites for non-enzymatic electrochemical glucose biosensor applications. <i>Materials Research Bulletin</i> , 2014 , 49, 521-524	5.1	71
7	Carbon-coated single-crystalline LiFePO ₄ nanocomposites for high-power Li-ion batteries: the impact of minimization of the precursor particle size. <i>RSC Advances</i> , 2014 , 4, 10067	3.7	28
6	The composite electrode of LiFePO ₄ cathode materials modified with exfoliated graphene from expanded graphite for high power Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2822-2829	13	42
5	An efficient route to a hierarchical CoFe ₂ O ₄ @graphene hybrid films with superior cycling stability and rate capability for lithium storage. <i>Electrochimica Acta</i> , 2014 , 146, 679-687	6.7	46
4	Growth of LiFePO ₄ nanoplatelets with orientated (010) facets on graphene for fast lithium storage. <i>Materials Letters</i> , 2014 , 118, 137-141	3.3	29
3	Improvement of the electrochemical performance of carbon-coated LiFePO ₄ modified with reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 135-144	13	100
2	The synergy effect on Li storage of LiFePO ₄ with activated carbon modifications. <i>RSC Advances</i> , 2013 , 3, 20024	3.7	37

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