# Bo Wang

## List of Publications by Citations



| 108 | 4,412 | 37 | 64 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| 110 | 5,449 | 8.5 | 6.03 |
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 108 | A three-dimensional porous LiFePO4 cathode material modified with a nitrogen-doped graphene aerogel for high-power lithium ion batteries. *Energy and Environmental Science*, **2015**, 8, 869-875 | 35.4 | 351 |
| 107 | Graphene-based composites for electrochemical energy storage. *Energy Storage Materials*, **2020**, 24, 22-51 | 19.4 | 214 |
| 106 | Nitrogen-Doped Graphene Ribbon Assembled Core–Sheath MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. *Advanced Functional Materials*, **2016**, 26, 7754-7765 | 15.6 | 210 |
| 105 | Flexible Transparent Molybdenum Trioxide Nanopaper for Energy Storage. *Advanced Materials*, **2016**, 28, 6353-8 | 24 | 172 |
| 104 | Vertically aligned sulfur-graphene nanowalls on substrates for ultrafast lithium-sulfur batteries. *Nano Letters*, **2015**, 15, 3073-9 | 11.5 | 167 |
| 103 | A Hierarchical Porous C@LiFePO4/Carbon Nanotubes Microsphere Composite for High-Rate Lithium-Ion Batteries: Combined Experimental and Theoretical Study. *Advanced Energy Materials*, **2016**, 6, 1600426 | 21.8 | 162 |
| 102 | Mesoporous carbon-coated LiFePO4 nanocrystals co-modified with graphene and Mg2+ doping as superior cathode materials for lithium ion batteries. *Nanoscale*, **2014**, 6, 986-95 | 7.7 | 119 |
| 101 | 3D self-supported hierarchical core/shell structured MnCo2O4@CoS arrays for high-energy supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 1822-1831 | 13 | 108 |
| 100 | In situ one-step synthesis of CoFe2O4/graphene nanocomposites as high-performance anode for lithium-ion batteries. *Electrochimica Acta*, **2014**, 129, 33-39 | 6.7 | 105 |
| 99 | Anodic Oxidation Strategy toward Structure-Optimized VO Cathode Electrolyte Regulation for Zn-Ion Storage. *ACS Nano*, **2020**, 14, 7328-7337 | 16.7 | 101 |
| 98 | LiFePO4 quantum-dots composite synthesized by a general microreactor strategy for ultra-high-rate lithium ion batteries. *Nano Energy*, **2017**, 42, 363-372 | 17.1 | 101 |
| 97 | From Commercial Sponge Toward 3D Graphene–Silicon Networks for Superior Lithium Storage. *Advanced Energy Materials*, **2015**, 5, 1500289 | 21.8 | 101 |
| 96 | Improvement of the electrochemical performance of carbon-coated LiFePO4 modified with reduced graphene oxide. *Journal of Materials Chemistry A*, **2013**, 1, 135-144 | 13 | 100 |
| 95 | Desired crystal oriented LiFePO4 nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. *Nanoscale*, **2015**, 7, 8819-28 | 7.7 | 92 |
| 94 | Hierarchical design of hollow Co-Ni LDH nanocages strung by MnO2 nanowire with enhanced pseudocapacitive properties. *Energy Storage Materials*, **2019**, 19, 370-378 | 19.4 | 80 |
| 93 | Graphene-reinforced aluminum matrix composites prepared by spark plasma sintering. *International Journal of Minerals, Metallurgy and Materials*, **2016**, 23, 723-729 | 3.1 | 79 |
| 92 | Synergistic deficiency and heterojunction engineering boosted VO2 redox kinetics for aqueous zinc-ion batteries with superior comprehensive performance. *Energy Storage Materials*, **2020**, 33, 390-398 | 19.4 | 79 |

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| 91 | Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. *ACS Energy Letters*, **2019**, 4, 1717-1724 | 20.1 | 78 |
| 90 | NiCo2S4 nanotube arrays grown on flexible nitrogen-doped carbon foams as three-dimensional binder-free integrated anodes for high-performance lithium-ion batteries. *Physical Chemistry Chemical Physics*, **2016**, 18, 4505-12 | 3.6 | 78 |
| 89 | Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. *ACS Nano*, **2019**, 13, 12219-12229 | 16.7 | 76 |
| 88 | Hierarchical NiMoO4 nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. *Physical Chemistry Chemical Physics*, **2016**, 18, 908-15 | 3.6 | 71 |
| 87 | Preparation of nickel nanoparticle/graphene composites for non-enzymatic electrochemical glucose biosensor applications. *Materials Research Bulletin*, **2014**, 49, 521-524 | 5.1 | 71 |
| 86 | Integration of network-like porous NiMoO4 nanoarchitectures assembled with ultrathin mesoporous nanosheets on three-dimensional graphene foam for highly reversible lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 13691-13698 | 13 | 67 |
| 85 | Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. *Journal of Materials Chemistry A*, **2016**, 4, 11789-11799 | 13 | 62 |
| 84 | Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. *ACS Nano*, **2021**, 15, 2197-2218 | 16.7 | 58 |
| 83 | Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. *Advanced Materials*, **2020**, 32, e2000151 | 24 | 56 |
| 82 | All-climate sodium ion batteries based on the NASICON electrode materials. *Nano Energy*, **2016**, 30, 756-761 | 17.1 | 56 |
| 81 | Solid Electrolyte Interphases on Sodium Metal Anodes. *Advanced Functional Materials*, **2020**, 30, 2004891 | 15.6 | 56 |
| 80 | Pitting corrosion of naturally aged AA 7075 aluminum alloys with bimodal grain size. *Corrosion Science*, **2016**, 113, 1-16 | 6.8 | 49 |
| 79 | An efficient route to a hierarchical CoFe 2 O 4 @graphene hybrid films with superior cycling stability and rate capability for lithium storage. *Electrochimica Acta*, **2014**, 146, 679-687 | 6.7 | 46 |
| 78 | A 3D conductive scaffold with lithiophilic modification for stable lithium metal batteries. *Journal of Materials Chemistry A*, **2018**, 6, 17967-17976 | 13 | 45 |
| 77 | Self-assembly of ultrathin mesoporous CoMoO4 nanosheet networks on flexible carbon fabric as a binder-free anode for lithium-ion batteries. *New Journal of Chemistry*, **2016**, 40, 2259-2267 | 3.6 | 43 |
| 76 | Synergistic nanostructure and heterointerface design propelled ultra-efficient in-situ self-transformation of zinc-ion battery cathodes with favorable kinetics. *Nano Energy*, **2021**, 81, 105601 | 17.1 | 43 |
| 75 | 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. *Microporous and Mesoporous Materials*, **2017**, 240, 216-226 | 5.3 | 42 |
| 74 | Carbon nanotube decorated NaTi2(PO4)3/C nanocomposite for a high-rate and low-temperature sodium-ion battery anode. *RSC Advances*, **2016**, 6, 70277-70283 | 3.7 | 42 |

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| 73 | The composite electrode of LiFePO4 cathode materials modified with exfoliated graphene from expanded graphite for high power Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 2822-2829 | 13 | 42 |
| 72 | In situ template synthesis of hollow nanospheres assembled from NiCoS@C ultrathin nanosheets with high electrochemical activities for lithium storage and ORR catalysis. *Physical Chemistry Chemical Physics*, **2017**, 19, 11554-11562 | 3.6 | 40 |
| 71 | The synergy effect on Li storage of LiFePO4 with activated carbon modifications. *RSC Advances*, **2013**, 3, 20024 | 3.7 | 37 |
| 70 | Holey graphene modified LiFePO4 hollow microsphere as an efficient binary sulfur host for high-performance lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 26, 433-442 | 19.4 | 36 |
| 69 | Modified solid-electrolyte interphase toward stable Li metal anode. *Nano Energy*, **2020**, 77, 105308 | 17.1 | 34 |
| 68 | Hierarchical heterostructures of NiO nanosheet arrays grown on pine twig-like NiS@Ni3S2 frameworks as free-standing integrated anode for high-performance lithium-ion batteries. *Chemical Engineering Journal*, **2019**, 356, 245-254 | 14.7 | 32 |
| 67 | Electrophoretic deposition of hierarchical Co3O4@graphene hybrid films as binder-free anodes for high-performance lithium-ion batteries. *RSC Advances*, **2015**, 5, 33438-33444 | 3.7 | 30 |
| 66 | Growth of LiFePO4 nanoplatelets with orientated (010) facets on graphene for fast lithium storage. *Materials Letters*, **2014**, 118, 137-141 | 3.3 | 29 |
| 65 | Carbon-coated single-crystalline LiFePO4 nanocomposites for high-power Li-ion batteries: the impact of minimization of the precursor particle size. *RSC Advances*, **2014**, 4, 10067 | 3.7 | 28 |
| 64 | Electrodeposition: Synthesis of advanced transition metal-based catalyst for hydrogen production via electrolysis of water. *Journal of Energy Chemistry*, **2021**, 57, 547-566 | 12 | 28 |
| 63 | Core-shell structured Fe3O4@NiS nanocomposite as high-performance anode material for alkaline nickel-iron rechargeable batteries. *Electrochimica Acta*, **2017**, 231, 479-486 | 6.7 | 27 |
| 62 | Nanocrystal-constructed mesoporous CoFeOF nanowire arrays aligned on flexible carbon fabric as integrated anodes with enhanced lithium storage properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 21476-84 | 3.6 | 27 |
| 61 | Facile and large-scale fabrication of hierarchical ZnFe2O4/graphene hybrid films as advanced binder-free anodes for lithium-ion batteries. *New Journal of Chemistry*, **2015**, 39, 1725-1733 | 3.6 | 26 |
| 60 | Self-assembly of 2D sandwich-structured MnFe2O4/graphene composites for high-performance lithium storage. *Materials Research Bulletin*, **2015**, 61, 369-374 | 5.1 | 25 |
| 59 | Improving weld strength of arc-assisted ultrasonic seam welded Mg/Al joint with Sn interlayer. *Materials and Design*, **2016**, 98, 262-271 | 8.1 | 25 |
| 58 | Graphene foam supported multilevel network-like NiCo2S4 nanoarchitectures for robust lithium storage and efficient ORR catalysis. *New Journal of Chemistry*, **2017**, 41, 115-125 | 3.6 | 24 |
| 57 | Free-standing 3D network-like cathode based on biomass-derived N-doped carbon/graphene/g-C3N4 hybrid ultrathin sheets as sulfur host for high-rate Li-S battery. *Renewable Energy*, **2020**, 158, 509-519 | 8.1 | 23 |
| 56 | A three-dimensional cathode matrix with bi-confinement effect of polysulfide for lithium-sulfur battery. *Applied Surface Science*, **2018**, 427, 396-404 | 6.7 | 22 |

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| 55 | A novel 3D POMOF based on Wells□Dawson arsenomolybdates with excellent photocatalytic and lithium-ion battery performance. *CrystEngComm*, **2017**, 19, 7154-7161 | 3.3 | 22 |
| 54 | N-doped graphene/Bi nanocomposite with excellent electrochemical properties for lithium□ion batteries. *Ionics*, **2017**, 23, 1407-1415 | 2.7 | 21 |
| 53 | Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-Ion Electrode Densities. *Advanced Energy Materials*, **2019**, 9, 1803390 | 21.8 | 20 |
| 52 | Controllable synthesis of micro/nano-structured MnCo2O4 with multiporous core□shell architectures as high-performance anode materials for lithium-ion batteries. *New Journal of Chemistry*, **2015**, 39, 8416-8423 | 3.6 | 20 |
| 51 | Stabilizing the structure of LiMnFePOvia the formation of concentration-gradient hollow spheres with Fe-rich surfaces. *Nanoscale*, **2019**, 11, 3933-3944 | 7.7 | 19 |
| 50 | In situ growth of CuO submicro-sheets on optimized Cu foam to induce uniform Li deposition and stripping for stable Li metal batteries. *Electrochimica Acta*, **2020**, 339, 135941 | 6.7 | 19 |
| 49 | A MIL-47(V) derived hierarchical lasagna-structured VO@C hollow microcuboid as an efficient sulfur host for high-performance lithium-sulfur batteries. *Nanoscale*, **2020**, 12, 4552-4561 | 7.7 | 19 |
| 48 | Graphene-immobilized flower-like Ni3S2 nanoflakes as a stable binder-free anode material for sodium-ion batteries. *International Journal of Minerals, Metallurgy and Materials*, **2018**, 25, 88-93 | 3.1 | 18 |
| 47 | A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 18126-18134 | 13 | 18 |
| 46 | Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. *Matter*, **2021**, 4, 1768-1800 | 12.7 | 18 |
| 45 | Mesoporous NiCo based nanowire arrays supported on three-dimensional N-doped carbon foams as non-noble catalysts for efficient oxygen reduction reaction. *Microporous and Mesoporous Materials*, **2016**, 231, 128-137 | 5.3 | 18 |
| 44 | Highly conductive graphene-modified TiO2 hierarchical film electrode for flexible Li-ion battery anode. *Electrochimica Acta*, **2019**, 313, 10-19 | 6.7 | 17 |
| 43 | One-step synthesis of the nickel foam supported network-like ZnO nanoarchitectures assembled with ultrathin mesoporous nanosheets with improved lithium storage performance. *RSC Advances*, **2015**, 5, 81341-81347 | 3.7 | 17 |
| 42 | Sodiophilic Decoration of a Three-Dimensional Conductive Scaffold toward a Stable Na Metal Anode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5452-5463 | 8.3 | 17 |
| 41 | Metal-organic framework derived 3D graphene decorated NaTi(PO) for fast Na-ion storage. *Nanoscale*, **2019**, 11, 7347-7357 | 7.7 | 16 |
| 40 | MoO2 nanobelts modified with an MOF-derived carbon layer for high performance lithium-ion battery anodes. *Journal of Alloys and Compounds*, **2019**, 803, 664-670 | 5.7 | 16 |
| 39 | Electrochemical performance of Bi 2 O 2 CO 3 nanosheets as negative electrode material for supercapacitors. *Ceramics International*, **2017**, 43, 9310-9316 | 5.1 | 12 |
| 38 | LiAlCl4□3SO2 as a high conductive, non-flammable and inorganic non-aqueous liquid electrolyte for lithium ion batteries. *Electrochimica Acta*, **2018**, 286, 77-85 | 6.7 | 12 |

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| 37 | Mo2C-embedded biomass-derived honeycomb-like nitrogen-doped carbon nanosheet/graphene aerogel films for highly efficient electrocatalytic hydrogen evolution. *New Journal of Chemistry*, **2020**, 44, 1147-1156 | 3.6 | 12 |
| 36 | Purifying the Phase of NaTi(PO) for Enhanced Na Storage Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 10663-10671 | 9.5 | 11 |
| 35 | Superior methanol electrooxidation activity and CO tolerance of mesoporous helical nanospindle-like CeO2 modified Pt/C. *RSC Advances*, **2015**, 5, 64261-64267 | 3.7 | 11 |
| 34 | A rational VO2 nanotube/graphene binary sulfur host for superior lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2020**, 838, 155504 | 5.7 | 11 |
| 33 | Metal-organic framework derived amorphous VO coated FeO/C hierarchical nanospindle as anode material for superior lithium-ion batteries. *Nanoscale*, **2020**, 12, 16901-16909 | 7.7 | 11 |
| 32 | A study on LiFePO/graphite cells with built-in LiTiO reference electrodes.. *RSC Advances*, **2018**, 8, 18597-18603 | 3.7 | 10 |
| 31 | A LiFePO4/Li2Sn hybrid system with enhanced Li-ion storage performance. *New Journal of Chemistry*, **2018**, 42, 6626-6630 | 3.6 | 9 |
| 30 | Characteristics of Welding and Arc Pressure in the Plasma□IG Coupled Arc Welding Process. *Metals* , **2018**, 8, 512 | 2.3 | 8 |
| 29 | Synergistic Interfacial and Doping Engineering of Heterostructured NiCo(OH)-CoW as an Efficient Alkaline Hydrogen Evolution Electrocatalyst. *Nano-Micro Letters*, **2021**, 13, 120 | 19.5 | 8 |
| 28 | Modifying hydrogel electrolyte to induce zinc deposition for dendrite-free zinc metal anode. *Electrochimica Acta*, **2021**, 393, 139094 | 6.7 | 8 |
| 27 | Red phosphorus encapsulated in porous carbon derived from cigarette filter solid waste as a promising anode material for lithium-ion batteries. *Ionics*, **2018**, 24, 3393-3403 | 2.7 | 7 |
| 26 | Li3V2(PO4)3 as a cathode additive for the over-discharge protection of lithium ion batteries. *RSC Advances*, **2016**, 6, 76933-76937 | 3.7 | 7 |
| 25 | Three-dimensional nitrogen-doped graphene aerogel toward dendrite-free lithium-metal anode. *Ionics*, **2020**, 26, 13-22 | 2.7 | 6 |
| 24 | Interface coupling in FeOOH/MXene heterojunction for highly reversible lithium-ion storage. *Materials Today Energy*, **2021**, 19, 100584 | 7 | 5 |
| 23 | Seamless alloying stabilizes solid-electrolyte interphase for highly reversible lithium metal anode. *Cell Reports Physical Science*, **2022**, 3, 100785 | 6.1 | 5 |
| 22 | LiAlCl4□SO2: a promising inorganic electrolyte for stable Li metal anode at room and low temperature. *Ionics*, **2019**, 25, 4137-4147 | 2.7 | 4 |
| 21 | A stable protective layer toward high-performance lithium metal battery. *Ionics*, **2019**, 25, 4067-4074 | 2.7 | 4 |
| 20 | Characterization and Expression Pattern Analysis of the T-Complex Protein-1 Zeta Subunit in Musca domestica L (Diptera). *Journal of Insect Science*, **2017**, 17, | 2 | 4 |

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| 19 | Graphene-Modified Mesoporous Iron Phosphate as Superior Binary Sulfur Host for Lithium–Sulfur Batteries. *Energy Technology*, **2020**, 8, 1901462 | 3.5 | 3 |
| 18 | Construction of Dual-Carbon Co-Modified LiFePO4 Nanocrystals via Microreactor Strategy for High-Performance Lithium Ion Batteries. *Energy Technology*, **2020**, 8, 2000171 | 3.5 | 3 |
| 17 | Hot-assisted Ultrasonic Additive Manufacturing Method for Al/Cu Layer-metal Composites. *Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering*, **2018**, 54, 95 | 1.3 | 3 |
| 16 | Biomolecule-assisted synthesis of porous network-like Ni3S2 nanoarchitectures assembled with ultrathin nanosheets as integrated negative electrodes for high-performance lithium storage. *New Journal of Chemistry*, **2020**, 44, 14453-14462 | 3.6 | 3 |
| 15 | Lithium fluoride additive for inorganic LiAlCl4–3SO2 electrolyte toward stable lithium metal anode. *Electrochimica Acta*, **2020**, 345, 136193 | 6.7 | 3 |
| 14 | 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. *Chemical Communications*, **2021**, 57, 1002-1005 | 5.8 | 3 |
| 13 | Stress-release design for high-capacity and long-time lifespan aqueous zinc-ion batteries. *Materials Today Energy*, **2021**, 21, 100799 | 7 | 3 |
| 12 | A LiA1Cl4–3SO2-NaAlCl4–2SO2 binary inorganic electrolyte with improved electrochemical performance for Li-metal batteries. *Ionics*, **2019**, 25, 4751-4760 | 2.7 | 2 |
| 11 | An ultrahigh pressure homogenization technique for easily exfoliating few-layer phosphorene from bulk black phosphorus. *Physica B: Condensed Matter*, **2018**, 537, 18-22 | 2.8 | 2 |
| 10 | Optically active multi-helical erythrocyte-like Ln(OH)CO3 (Ln = La, Ce, Pr and Sm). *Physical Chemistry Chemical Physics*, **2016**, 18, 20261-5 | 3.6 | 2 |
| 9 | Suppressing lithium dendrites within inorganic solid-state electrolytes. *Cell Reports Physical Science*, **2022**, 3, 100706 | 6.1 | 2 |
| 8 | Bioinspired hierarchical cross-linked graphene-silicon nanofilms via synergistic interfacial interactions as integrated negative electrodes for high-performance lithium storage. *Physical Chemistry Chemical Physics*, **2020**, 22, 2105-2114 | 3.6 | 2 |
| 7 | Precast solid electrolyte interface film on Li metal anode toward longer cycling life. *Ionics*, **2020**, 26, 1711-1719 | 2.7 | 2 |
| 6 | Soft-templated synthesis of core–shell heterostructured Ni3S2@polypyrrole nanotube aerogels as anode materials for high-performance lithium ion batteries. *New Journal of Chemistry*, **2021**, 45, 13127-13136 | 3.6 | 2 |
| 5 | A V2O3@NC cathode material for aqueous zinc-ion batteries with boosted zinc-ion storage performance. *Rare Metals*, **2022**, 41, 1605 | 5.5 | 1 |
| 4 | Construction of air-stable pre-lithiated SiOx anodes for next-generation high-energy-density lithium-ion batteries. *Cell Reports Physical Science*, **2022**, 100872 | 6.1 | 1 |
| 3 | Iron selenide nanoparticles-encapsulated within bamboo-like N-doped carbon nanotubes as composite anodes for superior lithium and sodium-ion storage. *Chemical Engineering Journal*, **2022**, 435, 135185 | 14.7 | 0 |
| 2 | 3D Alk-MXene@Fe3O4 as Cathode Additive for Rechargeable Lithium–Sulfur Batteries. *Advanced Energy and Sustainability Research*,2100167 | 1.6 | 0 |

1 Study on modification and failure of precast solid electrolyte interface film on Li metal anodes. *International Journal of Energy Research*, **2021**, 45, 14034-14046 4.5