Biao Chen

List of Publications by Year
in descending order

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40 papers	3,018 citations	172457 29 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	3620 citing authors

#	Article	IF	Citations
1	Grapheneâ€Supported Atomically Dispersed Metals as Bifunctional Catalysts for Nextâ€Generation Batteries Based on Conversion Reactions. Advanced Materials, 2022, 34, e2105812.	21.0	106
2	Induced construction of large-area amorphous Li2O2 film via elemental co-doping and spatial confinement to achieve high-performance Li-O2 batteries. Energy Storage Materials, 2022, 44, 285-295.	18.0	31
3	Synchrotron Xâ€ray Spectroscopic Investigations of Inâ€Situâ€Formed Alloy Anodes for Magnesium Batteries. Advanced Materials, 2022, 34, e2108688.	21.0	9
4	â€œThreeâ€inâ€Oneâ€Multiâ€Level Design of MoS₂â€Based Anodes for Enhanced Sodium Storage: from Atomic to Macroscopic Level. Advanced Functional Materials, 2022, 32, .	14.9	40
5	Designing Electrophilic and Nucleophilic Dual Centers in the ReS₂ Plane toward Efficient Bifunctional Catalysts for Li-CO₂ Batteries. Journal of the American Chemical Society, 2022, 144, 3106-3116.	13.7	93
6	Interface engineering of MoS2-based ternary hybrids towards reversible conversion of sodium storage. Materials Today Energy, 2022, 26, 100993.	4.7	5
7	Toward an Understanding of the Reversible Li-CO₂ Batteries over Metalâ€“N₄-Functionalized Graphene Electrocatalysts. ACS Nano, 2022, 16, 1523-1532.	14.6	52
8	Regulating Polysulfide Redox Kinetics on a Selfâ€Healing Electrode for Highâ€Performance Flexible Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	14.9	74
9	Vacancy-Rich MoSSe with Sulfiphilicityâ€“Lithiophilicity Dual Function for Kinetics-Enhanced and Dendrite-Free Li-S Batteries. Nano Letters, 2022, 22, 4999-5008.	9.1	54
10	Catalytic effect in Li-S batteries: From band theory to practical application. Materials Today, 2022, 57, 84-120.	14.2	69
11	Efficient Reversible Conversion between MoS₂ and Mo/Na₂S Enabled by Grapheneâ€Supported Single Atom Catalysts. Advanced Materials, 2021, 33, e2007090.	21.0	108
12	Engineering the Active Sites of Graphene Catalyst: From CO₂ Activation to Activate Li-CO₂ Batteries. ACS Nano, 2021, 15, 9841-9850.	14.6	71
13	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Alâ€“S batteries. Nature Communications, 2021, 12, 5714.	12.8	80
14	Stabilized Solid Electrolyte Interphase Induced by Ultrathin Boron Nitride Membranes for Safe Lithium Metal Batteries. Nano Letters, 2021, 21, 8447-8454.	9.1	51
15	ReS2 nanosheets anchored on rGO as an efficient polysulfides immobilizer and electrocatalyst for Li-S batteries. Applied Surface Science, 2020, 505, 144586.	6.1	23
16	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. Journal of the American Chemical Society, 2020, 142, 2012-2022.	13.7	142
17	Revealing the Magnesiumâ€Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Abâ€Initio Simulations. Angewandte Chemie - International Edition, 2020, 59, 21728-21735.	13.8	34
18	Revealing the Magnesiumâ€Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Abâ€Initio Simulations. Angewandte Chemie, 2020, 132, 21912-21919.	2.0	4

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19	Engineering the electronic structure of 1Tâ€²-ReS₂ through nitrogen implantation for enhanced alkaline hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 11607-11616.	10.3	39
20	Octopus-Inspired Design of Apical NiS₂ Nanoparticles Supported on Hierarchical Carbon Composites as an Efficient Host for Lithium Sulfur Batteries with High Sulfur Loading. ACS Applied Materials & Interfaces, 2020, 12, 17528-17537.	8.0	12
21	Boosting the stable sodium-ion storage performance by tailoring the 1D TiO2@ReS2 core-shell heterostructures. Electrochimica Acta, 2020, 338, 135695.	5.2	17
22	Chloroplast-granum-inspired porous nanorods composed of g-C3N4 ultrathin nanosheets as visible light photocatalysts for highly enhanced hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 2829-2839.	7.1	4
23	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. Energy and Environmental Science, 2020, 13, 1096-1131.	30.8	266
24	Sodiumâ€Ion Batteries: 1Tâ€²â€ReS₂ Confined in 2Dâ€Honeycombed Carbon Nanosheets as New Anode Materials for Highâ€Performance Sodiumâ€Ion Batteries (Adv. Energy Mater. 30/2019). Advanced Energy Materials, 2019, 9, 1970117.	19.5	4
25	Electronic reconfiguration of Co₂P induced by Cu doping enhancing oxygen reduction reaction activity in zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 21232-21243.	10.3	46
26	1Tâ€²â€ReS₂ Confined in 2Dâ€Honeycombed Carbon Nanosheets as New Anode Materials for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1901146.	19.5	50
27	Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. Matter, 2019, 1, 1681-1693.	10.0	81
28	Distorted 1T-ReS₂ Nanosheets Anchored on Porous TiO₂ Nanofibers for Highly Enhanced Photocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2019, 11, 23144-23151.	8.0	57
29	Rational design of Co9S8/CoO heterostructures with well-defined interfaces for lithium sulfur batteries: A study of synergistic adsorption-electrocatalysis function. Nano Energy, 2019, 60, 332-339.	16.0	156
30	Porous MoS₂/Carbon Spheres Anchored on 3D Interconnected Multiwall Carbon Nanotube Networks forÂUltrafast Na Storage. Advanced Energy Materials, 2018, 8, 1702909.	19.5	190
31	Facile synthesis and electrochemical properties of continuous porous spheres assembled from defect-rich, interlayer-expanded, and few-layered MoS2/C nanosheets for reversible lithium storage. Journal of Power Sources, 2018, 387, 16-23.	7.8	51
32	Preparation of MoS₂/TiO₂ based nanocomposites for photocatalysis and rechargeable batteries: progress, challenges, and perspective. Nanoscale, 2018, 10, 34-68.	5.6	247
33	1D Subâ€Nanotubes with Anatase/Bronze TiO₂ Nanocrystal Wall for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1804116.	21.0	109
34	Controllable graphene incorporation and defect engineering in MoS2-TiO2 based composites: Towards high-performance lithium-ion batteries anode materials. Nano Energy, 2017, 33, 247-256.	16.0	130
35	Multi-functional integration of pore P25@C@MoS2 core-double shell nanostructures as robust ternary anodes with enhanced lithium storage properties. Applied Surface Science, 2017, 401, 232-240.	6.1	24
36	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS2/nitrogen-doped graphene heterostructure for promising lithium-ion batteries. Nano Energy, 2017, 41, 154-163.	16.0	191

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37	2D sandwich-like carbon-coated ultrathin TiO2@defect-rich MoS2 hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. Nano Energy, 2016, 26, 541-549.	16.0	146
38	Interfacial effect on the electrochemical properties of the layered graphene/metal sulfide composites as anode materials for Li-ion batteries. Surface Science, 2016, 651, 10-15.	1.9	27
39	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO₂ Nanosheets and Their Application in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 2495-2504.	8.0	40
40	Facile synthesis of 3D few-layered MoS₂coated TiO₂nanosheet coreâ€“shell nanostructures for stable and high-performance lithium-ion batteries. Nanoscale, 2015, 7, 12895-12905.	5.6	85