Zhi Yang

List of Publications by Year
in descending order

68 papers	10,620 citations	61945 43 h-index	95218 68 g-index
68 all docs	68 docs citations	68 times ranked	12677 citing authors

#	Article	IF	Citations
1	Cofactorâ€Assisted Artificial Enzyme with Multiple Liâ€Bond Networks for Sustainable Polysulfide Conversion in Lithiumâ€“Sulfur Batteries. Advanced Science, 2022, 9, e2104205.	5.6	20
2	Regulatable Detection of Antibiotics Based on a Near-IR-Luminescent Tubelike Zn(II)â€“Yb(III) Nanocluster. Inorganic Chemistry, 2022, 61, 1011-1017.	1.9	6
3	Sulfur Reduction Catalyst Design Inspired by Elemental Periodic Expansion Concept for Lithiumâ€“Sulfur Batteries. ACS Nano, 2022, 16, 6414-6425.	7.3	37
4	Pd/PdO Electrocatalysts Boost Their Intrinsic Nitrogen Reduction Reaction Activity and Selectivity via Controllably Modulating the Oxygen Level. ACS Applied Materials & Interfaces, 2022, 14, 20988-20996.	4.0	11
5	Organocatalysis-Inspired Palladium Molecule as a Robust Polysulfide-Confinement-Scissors Catalyst for Advanced Lithiumâ€“Sulfur Battery. ACS Applied Energy Materials, 2022, 5, 8538-8546.	2.5	4
6	Hydrogen-substituted graphdiyne/graphene as an sp/sp² hybridized carbon interlayer for lithiumâ€“sulfur batteries. Nanoscale, 2021, 13, 3817-3826.	2.8	27
7	NaBH₄-reduction induced tunable oxygen vacancies in LaNiO_{2.7} to enhance the oxygen evolution reaction. Chemical Communications, 2021, 57, 7168-7171.	2.2	11
8	Oxygen doping in antimony sulfide nanosheets to facilitate catalytic conversion of polysulfides for lithiumâ€“sulfur batteries. Chemical Communications, 2021, 57, 3255-3258.	2.2	23
9	Uniform Formation of Amorphous Cobalt Phosphate on Carbon Nanotubes for Hydrogen Evolution Reaction^{â€}. Chinese Journal of Chemistry, 2021, 39, 2113-2118.	2.6	12
10	Enhanced Interfacial Properties of Thickness-Tunable Carbon Nanosheets for Advanced Lithiumâ€“Sulfur Batteries. Energy & Fuels, 2021, 35, 13419-13425.	2.5	6
11	Progress and Prospect of Organic Electrocatalysts in Lithiumâ€Sulfur Batteries. Frontiers in Chemistry, 2021, 9, 703354.	1.8	5
12	An Overview on Noble Metal (Group VIII)â€based Heterogeneous Electrocatalysts for Nitrogen Reduction Reaction. Chemistry - an Asian Journal, 2020, 15, 4131-4152.	1.7	25
13	Dual-Regulation Strategy to Improve Anchoring and Conversion of Polysulfides in Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 7538-7551.	7.3	80
14	Biomimetic Molecule Catalysts to Promote the Conversion of Polysulfides for Advanced Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2003354.	7.8	53
15	Intermolecular electron modulation by P/O bridging in an IrO₂-CoPi catalyst to enhance the hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 8273-8280.	5.2	16
16	The electrochemical synthesis of CNTs/N-Cu2S composites as efficient electrocatalysts for water oxidation. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	2
17	Radially Inwardly Aligned Hierarchical Porous Carbon for Ultraâ€Longâ€Life Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2020, 59, 6406-6411.	7.2	100
18	Radially Inwardly Aligned Hierarchical Porous Carbon for Ultraâ€Longâ€Life Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2020, 132, 6468-6473.	1.6	15

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19	A â€œflared-endâ€•gradient coil with outer-wall direct cooling for human brain imaging: A feasibility study. Magnetic Resonance Imaging, 2019, 62, 191-198.	1.0	1
20	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. Advanced Fiber Materials, 2019, 1, 61-70.	7.9	56
21	Interfacial Molecule Mediators in Cathodes for Advanced Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29978-29984.	4.0	17
22	Titanium silicalite as a radical-redox mediator for high-energy-density lithiumâ€“sulfur batteries. Nanoscale, 2019, 11, 16968-16977.	2.8	8
23	Clear Wood toward High-Performance Building Materials. ACS Nano, 2019, 13, 9993-10001.	7.3	138
24	Designing Pd/O co-doped MoS_x for boosting the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15599-15606.	5.2	22
25	Synchronous Gains of Areal and Volumetric Capacities in Lithiumâ€“Sulfur Batteries Promised by Flower-like Porous Ti₃C₂T_x Matrix. ACS Nano, 2019, 13, 3404-3412.	7.3	153
26	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. Small Methods, 2019, 3, 1800176.	4.6	97
27	Synthesis of a MoS_xâ€“Oâ€“PtO_x Electrocatalyst with High Hydrogen Evolution Activity Using a Sacrificial Counterâ€Electrode. Advanced Science, 2019, 6, 1801663.	5.6	21
28	System-level Pareto frontiers for on-chip thermoelectric coolers. Frontiers in Energy, 2018, 12, 109-120.	1.2	8
29	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. Science Advances, 2018, 4, eaar3724.	4.7	336
30	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. ACS Nano, 2018, 12, 140-147.	7.3	364
31	Molybdenum Carbide Nanoparticles Coated into the Graphene Wrapping Nâ€Doped Porous Carbon Microspheres for Highly Efficient Electrocatalytic Hydrogen Evolution Both in Acidic and Alkaline Media. Advanced Science, 2018, 5, 1700733.	5.6	152
32	Plasmonic Wood for Highâ€Efficiency Solar Steam Generation. Advanced Energy Materials, 2018, 8, 1701028.	10.2	701
33	Low-temperature construction of MoS2 quantum dots/ZnO spheres and their photocatalytic activity under natural sunlight. Journal of Colloid and Interface Science, 2018, 530, 714-724.	5.0	32
34	3D CNTs/Grapheneâ€Sâ€Al₃Ni₂ Cathodes for Highâ€Sulfurâ€Loading and Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Science, 2018, 5, 1800026.	5.6	50
35	Three-dimensional sp² carbon networks prepared by ultrahigh temperature treatment for ultrafast lithiumâ€“sulfur batteries. Nanoscale, 2018, 10, 10999-11005.	2.8	18
36	Polysulfide-Scission Reagents for the Suppression of the Shuttle Effect in Lithiumâ€“Sulfur Batteries. ACS Nano, 2017, 11, 2209-2218.	7.3	188

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37	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602380.	10.2	201
38	Controllable synthesis of highly uniform flower-like hierarchical carbon nanospheres and their application in high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 6245-6256.	5.2	48
39	Highly efficient oxygen evolution from CoS₂/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. Nanoscale, 2017, 9, 6886-6894.	2.8	55
40	3Dâ€Printed, Allâ€inâ€One Evaporator for Highâ€Efficiency Solar Steam Generation under 1 Sun Illumination. Advanced Materials, 2017, 29, 1700981.	11.1	511
41	Highly Conductive Porous Transition Metal Dichalcogenides via Water Steam Etching for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 18845-18855.	4.0	57
42	Highly Flexible and Efficient Solar Steam Generation Device. Advanced Materials, 2017, 29, 1701756.	11.1	584
43	Ultrahigh Conductive Graphene Paper Based on Ballâ€Milling Exfoliated Graphene. Advanced Functional Materials, 2017, 27, 1700240.	7.8	241
44	Three-Dimensional Printed Thermal Regulation Textiles. ACS Nano, 2017, 11, 11513-11520.	7.3	261
45	Treeâ€Inspired Design for Highâ€Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	11.1	494
46	Highly Anisotropic Conductors. Advanced Materials, 2017, 29, 1703331.	11.1	80
47	Sandwich-Type NbS₂@S@I-Doped Graphene for High-Sulfur-Loaded, Ultrahigh-Rate, and Long-Life Lithiumâ€“Sulfur Batteries. ACS Nano, 2017, 11, 8488-8498.	7.3	174
48	3D hierarchical nitrogen-doped carbon nanoflower derived from chitosan for efficient electrocatalytic oxygen reduction and high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 18193-18206.	5.2	86
49	Thermally Conductive, Electrical Insulating, Optically Transparent Bi-Layer Nanopaper. ACS Applied Materials & Interfaces, 2016, 8, 28838-28843.	4.0	53
50	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. Advanced Energy Materials, 2016, 6, 1601122.	10.2	228
51	A lightweight multifunctional interlayer of sulfurâ€“nitrogen dual-doped graphene for ultrafast, long-life lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 15343-15352.	5.2	120
52	Thermally conductive, dielectric PCMâ€“boron nitride nanosheet composites for efficient electronic system thermal management. Nanoscale, 2016, 8, 19326-19333.	2.8	80
53	Neuron-Inspired Interpenetrative Network Composed of Cobaltâ€“Phosphorus-Derived Nanoparticles Embedded within Porous Carbon Nanotubes for Efficient Hydrogen Production. ACS Applied Materials & Interfaces, 2016, 8, 17284-17291.	4.0	13
54	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 3543-3550.	4.0	72

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55	A novel label-free fluorescence strategy for methyltransferase activity assay based on dsDNA-templated copper nanoparticles coupled with an endonuclease-assisted signal transduction system. Analyst, The, 2016, 141, 1383-1389.	1.7	25
56	A Thermally Conductive Separator for Stable Li Metal Anodes. Nano Letters, 2015, 15, 6149-6154.	4.5	313
57	A Lightweight TiO₂/Graphene Interlayer, Applied as a Highly Effective Polysulfide Absorbent for Fast, Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Materials, 2015, 27, 2891-2898.	11.1	667
58	Synergistically enhanced activity of graphene quantum dot/multi-walled carbon nanotube composites as metal-free catalysts for oxygen reduction reaction. Nanoscale, 2014, 6, 2603.	2.8	105
59	Sulfurâ€Impregnated, Sandwichâ€Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301988.	10.2	130
60	Porous carbon nanotubes etched by water steam for high-rate large-capacity lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 8683-8689.	5.2	123
61	A Facile and General Approach for the Direct Fabrication of 3D, Vertically Aligned Carbon Nanotube Array/Transition Metal Oxide Composites as Nonâ€Pt Catalysts for Oxygen Reduction Reactions. Advanced Materials, 2014, 26, 3156-3161.	11.1	74
62	Sulfurâ€“nitrogen co-doped three-dimensional carbon foams with hierarchical pore structures as efficient metal-free electrocatalysts for oxygen reduction reactions. Nanoscale, 2013, 5, 3283.	2.8	304
63	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/Î±-Ni(OH) 2 composites for high performance electrochemical supercapacitor. Journal of Power Sources, 2013, 243, 555-561.	4.0	204
64	Catalyst-free synthesis of iodine-doped graphenevia a facile thermal annealing process and its use for electrocatalytic oxygen reduction in an alkaline medium. Chemical Communications, 2012, 48, 1027-1029.	2.2	336
65	Metal-free selenium doped carbon nanotube/graphene networks as a synergistically improved cathode catalyst for oxygen reduction reaction. Nanoscale, 2012, 4, 6455.	2.8	212
66	Sulfur-Doped Graphene as an Efficient Metal-free Cathode Catalyst for Oxygen Reduction. ACS Nano, 2012, 6, 205-211.	7.3	1,783
67	Catalyst-free growth of large scale nitrogen-doped carbon spheres as efficient electrocatalysts for oxygen reduction in alkaline medium. Journal of Power Sources, 2011, 196, 9970-9974.	4.0	79
68	Facile Construction of Manganese Oxide Doped Carbon Nanotube Catalysts with High Activity for Oxygen Reduction Reaction and Investigations into the Origin of their Activity Enhancement. ACS Applied Materials & Interfaces, 2011, 3, 2601-2606.	4.0	92