Zhi Yang

List of Publications by Year
in descending order

68 papers	10,620 citations	61984 43 h-index	95266 68 g-index
68 all docs	68 docs citations	68 times ranked	12677 citing authors

#	ARTICLE	IF	CITATIONS
1	Cofactor–Assisted Artificial Enzyme with Multiple Li–Bond Networks for Sustainable Polysulfide Conversion in Lithium–Sulfur Batteries. Advanced Science, 2022, 9, e2104205.	11.2	20
2	Regulatable Detection of Antibiotics Based on a Near-IR-Luminescent Tubelike Zn(II)–Yb(III) Nanocluster. Inorganic Chemistry, 2022, 61, 1011-1017.	4.0	6
3	Sulfur Reduction Catalyst Design Inspired by Elemental Periodic Expansion Concept for Lithium–Sulfur Batteries. ACS Nano, 2022, 16, 6414-6425.	14.6	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.	8.0	11
5	Organocatalysis-Inspired Palladium Molecule as a Robust Polysulfide-Confinement-Scissors Catalyst for Advanced Lithium–Sulfur Battery. ACS Applied Energy Materials, 2022, 5, 8538-8546.	5.1	4
6	Hydrogen-substituted graphdiyne/graphene as an sp/sp^2 hybridized carbon interlayer for lithium–sulfur batteries. Nanoscale, 2021, 13, 3817-3826.	5.6	27
7	$NaBH_4$-reduction induced tunable oxygen vacancies in $LaNiO_{2.7}$ to enhance the oxygen evolution reaction. Chemical Communications, 2021, 57, 7168-7171.	4.1	11
8	Oxygen doping in antimony sulfide nanosheets to facilitate catalytic conversion of polysulfides for lithium–sulfur batteries. Chemical Communications, 2021, 57, 3255-3258.	4.1	23
9	Uniform Formation of Amorphous Cobalt Phosphate on Carbon Nanotubes for Hydrogen Evolution Reaction[†]. Chinese Journal of Chemistry, 2021, 39, 2113-2118.	4.9	12
10	Enhanced Interfacial Properties of Thickness-Tunable Carbon Nanosheets for Advanced Lithium–Sulfur Batteries. Energy & Fuels, 2021, 35, 13419-13425.	5.1	6
11	Progress and Prospect of Organic Electrocatalysts in Lithium˜Sulfur Batteries. Frontiers in Chemistry, 2021, 9, 703354.	3.6	5
12	An Overview on Noble Metal (Group VIII)–based Heterogeneous Electrocatalysts for Nitrogen Reduction Reaction. Chemistry - an Asian Journal, 2020, 15, 4131-4152.	3.3	25
13	Dual-Regulation Strategy to Improve Anchoring and Conversion of Polysulfides in Lithium–Sulfur Batteries. ACS Nano, 2020, 14, 7538-7551.	14.6	80
14	Biomimetic Molecule Catalysts to Promote the Conversion of Polysulfides for Advanced Lithium–Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2003354.	14.9	53
15	Intermolecular electron modulation by P/O bridging in an IrO_2-CoPi catalyst to enhance the hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 8273-8280.	10.3	16
16	The electrochemical synthesis of CNTs/N-Cu2S composites as efficient electrocatalysts for water oxidation. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	2
17	Radially Inwardly Aligned Hierarchical Porous Carbon for Ultra–Long–Life Lithium–Sulfur Batteries. Angewandte Chemie - International Edition, 2020, 59, 6406-6411.	13.8	100
18	Radially Inwardly Aligned Hierarchical Porous Carbon for Ultra–Long–Life Lithium–Sulfur Batteries. Angewandte Chemie, 2020, 132, 6468-6473.	2.0	15

#	Article	IF	Citations
19	A "flared-end" gradient coil with outer-wall direct cooling for human brain imaging: A feasibility study. Magnetic Resonance Imaging, 2019, 62, 191-198.	1.8	1
20	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. Advanced Fiber Materials, 2019, 1, 61-70.	16.1	56
21	Interfacial Molecule Mediators in Cathodes for Advanced Li–S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29978-29984.	8.0	17
22	Titanium silicalite as a radical-redox mediator for high-energy-density lithium–sulfur batteries. Nanoscale, 2019, 11, 16968-16977.	5.6	8
23	Clear Wood toward High-Performance Building Materials. ACS Nano, 2019, 13, 9993-10001.	14.6	138
24	Designing Pd/O co-doped MoS_x for boosting the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15599-15606.	10.3	22
25	Synchronous Gains of Areal and Volumetric Capacities in Lithium–Sulfur Batteries Promised by Flower-like Porous $Ti_3C_2T_x$ Matrix. ACS Nano, 2019, 13, 3404-3412.	14.6	153
26	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. Small Methods, 2019, 3, 1800176.	8.6	97
27	Synthesis of a MoS_x–O–PtO_x Electrocatalyst with High Hydrogen Evolution Activity Using a Sacrificial Counter Electrode. Advanced Science, 2019, 6, 1801663.	11.2	21
28	System-level Pareto frontiers for on-chip thermoelectric coolers. Frontiers in Energy, 2018, 12, 109-120.	2.3	8
29	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. Science Advances, 2018, 4, eaar3724.	10.3	336
30	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. ACS Nano, 2018, 12, 140-147.	14.6	364
31	Molybdenum Carbide Nanoparticles Coated into the Graphene Wrapping N-Doped Porous Carbon Microspheres for Highly Efficient Electrocatalytic Hydrogen Evolution Both in Acidic and Alkaline Media. Advanced Science, 2018, 5, 1700733.	11.2	152
32	Plasmonic Wood for High-Efficiency Solar Steam Generation. Advanced Energy Materials, 2018, 8, 1701028.	19.5	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.	9.4	32
34	3D CNTs/Graphene–S–Al_3Ni_2 Cathodes for High-Sulfur-Loading and Long-Life Lithium–Sulfur Batteries. Advanced Science, 2018, 5, 1800026.	11.2	50
35	Three-dimensional sp^2 carbon networks prepared by ultrahigh temperature treatment for ultrafast lithium–sulfur batteries. Nanoscale, 2018, 10, 10999-11005.	5.6	18
36	Polysulfide-Scission Reagents for the Suppression of the Shuttle Effect in Lithium–Sulfur Batteries. ACS Nano, 2017, 11, 2209-2218.	14.6	188

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37	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long‑Life Lithium–Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602380.	19.5	201
38	Controllable synthesis of highly uniform flower-like hierarchical carbon nanospheres and their application in high performance lithium–sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 6245-6256.	10.3	48
39	Highly efficient oxygen evolution from CoS_2/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. Nanoscale, 2017, 9, 6886-6894.	5.6	55
40	3D‑Printed, All‑in‑One Evaporator for High‑Efficiency Solar Steam Generation under 1 Sun Illumination. Advanced Materials, 2017, 29, 1700981.	21.0	511
41	Highly Conductive Porous Transition Metal Dichalcogenides via Water Steam Etching for High-Performance Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 18845-18855.	8.0	57
42	Highly Flexible and Efficient Solar Steam Generation Device. Advanced Materials, 2017, 29, 1701756.	21.0	584
43	Ultrahigh Conductive Graphene Paper Based on Ball‑Milling Exfoliated Graphene. Advanced Functional Materials, 2017, 27, 1700240.	14.9	241
44	Three-Dimensional Printed Thermal Regulation Textiles. ACS Nano, 2017, 11, 11513-11520.	14.6	261
45	Tree‑Inspired Design for High‑Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	21.0	494
46	Highly Anisotropic Conductors. Advanced Materials, 2017, 29, 1703331.	21.0	80
47	Sandwich-Type NbS_2@S@I-Doped Graphene for High-Sulfur-Loaded, Ultrahigh-Rate, and Long-Life Lithium–Sulfur Batteries. ACS Nano, 2017, 11, 8488-8498.	14.6	174
48	3D hierarchical nitrogen-doped carbon nanoflower derived from chitosan for efficient electrocatalytic oxygen reduction and high performance lithium–sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 18193-18206.	10.3	86
49	Thermally Conductive, Electrical Insulating, Optically Transparent Bi-Layer Nanopaper. ACS Applied Materials & Interfaces, 2016, 8, 28838-28843.	8.0	53
50	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. Advanced Energy Materials, 2016, 6, 1601122.	19.5	228
51	A lightweight multifunctional interlayer of sulfur–nitrogen dual-doped graphene for ultrafast, long-life lithium–sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 15343-15352.	10.3	120
52	Thermally conductive, dielectric PCM–boron nitride nanosheet composites for efficient electronic system thermal management. Nanoscale, 2016, 8, 19326-19333.	5.6	80
53	Neuron-Inspired Interpenetrative Network Composed of Cobalt–Phosphorus-Derived Nanoparticles Embedded within Porous Carbon Nanotubes for Efficient Hydrogen Production. ACS Applied Materials & Interfaces, 2016, 8, 17284-17291.	8.0	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.	8.0	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.	3.5	25
56	A Thermally Conductive Separator for Stable Li Metal Anodes. Nano Letters, 2015, 15, 6149-6154.	9.1	313
57	A Lightweight TiO_2/Graphene Interlayer, Applied as a Highly Effective Polysulfide Absorbent for Fast, Long‐Life Lithium–Sulfur Batteries. Advanced Materials, 2015, 27, 2891-2898.	21.0	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.	5.6	105
59	Sulfur‐Impregnated, Sandwich‐Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for High‐Performance Lithium‐Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301988.	19.5	130
60	Porous carbon nanotubes etched by water steam for high-rate large-capacity lithium–sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 8683-8689.	10.3	123
61	A Facile and General Approach for the Direct Fabrication of 3D, Vertically Aligned Carbon Nanotube Array/Transition Metal Oxide Composites as Non‐Pt Catalysts for Oxygen Reduction Reactions. Advanced Materials, 2014, 26, 3156-3161.	21.0	74
62	Sulfur–nitrogen co-doped three-dimensional carbon foams with hierarchical pore structures as efficient metal-free electrocatalysts for oxygen reduction reactions. Nanoscale, 2013, 5, 3283.	5.6	304
63	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/α-Ni(OH) 2 composites for high performance electrochemical supercapacitor. Journal of Power Sources, 2013, 243, 555-561.	7.8	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.	4.1	336
65	Metal-free selenium doped carbon nanotube/graphene networks as a synergistically improved cathode catalyst for oxygen reduction reaction. Nanoscale, 2012, 4, 6455.	5.6	212
66	Sulfur-Doped Graphene as an Efficient Metal-free Cathode Catalyst for Oxygen Reduction. ACS Nano, 2012, 6, 205-211.	14.6	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.	7.8	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.	8.0	92