

Zilong Wang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

7,771
citations

101496

36
h-index

168321

53
g-index

53
all docs

53
docs citations

53
times ranked

11643
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination and interface engineering to boost catalytic property of two-dimensional ZIFs for wearable Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2022, 68, 78-86.	7.1	33
2	A review of hard carbon anode: Rational design and advanced characterization in potassium ion batteries. <i>Informa Publishing</i> , 2022, 4, .	8.5	85
3	Manipulating Interfacial Stability Via Absorption-Competition Mechanism for Long-Lifespan Zn Anode. <i>Nano-Micro Letters</i> , 2022, 14, 31.	14.4	30
4	Freestanding 2D NiFe Metal-Organic Framework Nanosheets: Facilitating Proton Transfer via Organic Ligands for Efficient Oxygen Evolution Reaction. <i>Small</i> , 2022, 18, .	5.2	23
5	Corrosion engineering towards a high-energy Mn doped Co_3O_4 nanoflake cathode for rechargeable Zn-based batteries. <i>Materials Advances</i> , 2022, 3, 6441-6445.	2.6	1
6	Freestanding polypyrrole/carbon nanotube electrodes with high mass loading for robust flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1324-1329.	3.2	24
7	3D Porous Nb_2C MXene/reduced graphene oxide aerogel coupled with NiFe alloy nanoparticles for wearable Zn-air batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7315-7322.	3.2	14
8	Atomic layer deposited Al_2O_3 layer confinement: an efficient strategy to synthesize durable MOF-derived catalysts toward the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1432-1438.	3.0	10
9	Pt/Zn heterostructure as efficient air-electrocatalyst for long-life neutral Zn-air batteries. <i>Science China Materials</i> , 2021, 64, 1868-1875.	3.5	25
10	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18247-18255.	7.2	529
11	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie</i> , 2021, 133, 18395-18403.	1.6	97
12	Surface engineered $\text{CoP/Co}_3\text{O}_4$ heterojunction for high-performance bi-functional water splitting electro-catalysis. <i>Nanoscale</i> , 2021, 13, 20281-20288.	2.8	26
13	Improving Photovoltaic Performance Using Perovskite/Surface-Modified Graphitic Carbon Nitride Heterojunction. <i>Solar Rrl</i> , 2020, 4, 1900413.	3.1	38
14	NiFe nanoparticles embedded N-doped carbon nanotubes as high-efficient electrocatalysts for wearable solid-state Zn-air batteries. <i>Nano Energy</i> , 2020, 68, 104293.	8.2	193
15	Strongly Coupled NiCo_2O_4 Nanocrystal/MXene Hybrid through In Situ Ni/Co-F Bonds for Efficient Wearable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44639-44647.	4.0	82
16	Novel 3D Nanoporous Zn-Cu Alloy as Long-Life Anode toward High-Voltage Double Electrolyte Aqueous Zinc-Ion Batteries. <i>Small</i> , 2020, 16, e2001323.	5.2	136
17	Hybrid Perovskite-Organic Flexible Tandem Solar Cell Enabling Highly Efficient Electrocatalysis Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 2000361.	10.2	79
18	Theoretical calculation guided electrocatalysts design: Nitrogen saturated porous Mo_2C nanostructures for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117891.	10.8	46

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19	Construction of highly dispersed mesoporous bimetallic-sulfide nanoparticles locked in N-doped graphitic carbon nanosheets for high energy density hybrid flexible pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17435-17445.	5.2	77
20	Engineering Ternary Copper-Cobalt Sulfide Nanosheets as High-performance Electrocatalysts toward Oxygen Evolution Reaction. <i>Catalysts</i> , 2019, 9, 459.	1.6	21
21	p-Type NiO modified BiVO ₄ photoanodes with enhanced charge separation and solar water oxidation kinetics. <i>Materials Letters</i> , 2019, 249, 128-131.	1.3	17
22	Solar-powered overall water splitting system combining metal-organic frameworks derived bimetallic nanohybrids based electrocatalysts and one organic solar cell. <i>Nano Energy</i> , 2019, 56, 82-91.	8.2	55
23	A novel CoOOH/(Ti, C)-Fe ₂ O ₃ nanorod photoanode for photoelectrochemical water splitting. <i>Science China Materials</i> , 2018, 61, 887-894.	3.5	69
24	Exploratory Study of Zn _x PbO _y Photoelectrodes for Unassisted Overall Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10918-10926.	4.0	7
25	Rational design of MoS ₂ -reduced graphene oxide sponges as free-standing anodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 332, 260-266.	6.6	159
26	Carbon quantum dots as a visible light sensitizer to significantly increase the solar water splitting performance of bismuth vanadate photoanodes. <i>Energy and Environmental Science</i> , 2017, 10, 772-779.	15.6	315
27	Nitrogen-Doped Co ₃ O ₄ Mesoporous Nanowire Arrays as an Additive-Free Cathode for Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1602868.	11.1	428
28	Engineering stepped edge surface structures of MoS ₂ sheet stacks to accelerate the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2017, 10, 593-603.	15.6	284
29	In situ growth of a TiO ₂ layer on a flexible Ti substrate targeting the interface recombination issue of BiVO ₄ photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20195-20201.	5.2	22
30	High-Performance Porous Molybdenum Oxynitride Based Fiber Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29699-29706.	4.0	44
31	Facile synthesis of TiO ₂ /Mn ₃ O ₄ hierarchical structures for fiber-shaped flexible asymmetric supercapacitors with ultrahigh stability and tailorable performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 814-821.	5.2	32
32	Rational design of carbon shell endows TiN@C nanotube based fiber supercapacitors with significantly enhanced mechanical stability and electrochemical performance. <i>Nano Energy</i> , 2017, 31, 432-440.	8.2	112
33	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie</i> , 2016, 128, 6874-6878.	1.6	70
34	Fabrication of CuFe ₂ O ₄ /±-Fe ₂ O ₃ Composite Thin Films on FTO Coated Glass and 3-D Nanospine Structures for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35315-35322.	4.0	67
35	Co(II) Co(0)/3 Mn(III) S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13348-13359.	4.0	77
36	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6762-6766.	7.2	230

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37	Recent progress in the development of anodes for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4634-4658.	5.2	154
38	Transition metal based layered double hydroxides tailored for energy conversion and storage. <i>Materials Today</i> , 2016, 19, 213-226.	8.3	464
39	Mesoporous SnO ₂ single crystals as an effective electron collector for perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18265-18268.	1.3	82
40	Cobalt-Embedded Nitrogen Doped Carbon Nanotubes: A Bifunctional Catalyst for Oxygen Electrode Reactions in a Wide pH Range. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4048-4055.	4.0	156
41	High-Performance Graphene-Based Hole Conductor-Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. <i>Small</i> , 2015, 11, 2269-2274.	5.2	233
42	A multifunctional C + epoxy/Ag-paint cathode enables efficient and stable operation of perovskite solar cells in watery environments. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16430-16434.	5.2	77
43	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO ₄ Photoanodes between the BiVO ₄ and the FTO Side Illumination. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23350-23357.	1.5	70
44	Metallic Iron-Nickel Sulfide Ultrathin Nanosheets As a Highly Active Electrocatalyst for Hydrogen Evolution Reaction in Acidic Media. <i>Journal of the American Chemical Society</i> , 2015, 137, 11900-11903.	6.6	609
45	Co intake mediated formation of ultrathin nanosheets of transition metal LDH an advanced electrocatalyst for oxygen evolution reaction. <i>Chemical Communications</i> , 2015, 51, 1120-1123.	2.2	195
46	Construction of bicontinuously porous Ni architecture as a deposition scaffold for high performance electrochemical supercapacitors. <i>Nano Energy</i> , 2014, 10, 329-336.	8.2	15
47	Dithieno[3,2-b:2',3'-d]pyran-containing organic dyes as sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 62472-62475.	1.7	7
48	High-Performance Hole-Extraction Layer of Sol-Gel-Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12571-12575.	7.2	355
49	Space-Confined Growth of MoS ₂ Nanosheets within Graphite: The Layered Hybrid of MoS ₂ and Graphene as an Active Catalyst for Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2014, 26, 2344-2353.	3.2	634
50	Efficiency Enhancement of Perovskite Solar Cells through Fast Electron Extraction: The Role of Graphene Quantum Dots. <i>Journal of the American Chemical Society</i> , 2014, 136, 3760-3763.	6.6	688