

Zhi-Yi Hu

List of Publications by Year in descending order

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66
papers

2,864
citations

126708

33
h-index

174990

52
g-index

66
all docs

66
docs citations

66
times ranked

3693
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel clusters accelerating hierarchical zinc indium sulfide nanoflowers for unprecedented visible-light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 504-512.	5.0	17
2	Carbon quantum dots modified TiO ₂ composites for hydrogen production and selective glucose photoreforming. <i>Journal of Energy Chemistry</i> , 2022, 64, 201-208.	7.1	63
3	Three-dimensional ordered hierarchically porous carbon materials for high performance Li-Se battery. <i>Journal of Energy Chemistry</i> , 2022, 68, 624-636.	7.1	23
4	The chain-mail Co@C electrocatalyst accelerating one-step solid-phase redox for advanced Li- ⁺ Se batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8059-8067.	5.2	11
5	Gradient selenium-doping regulating interfacial charge transfer in zinc sulfide/carbon anode for stable lithium storage. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 42-50.	5.0	5
6	Atomic defects, functional groups and properties in MXenes. <i>Chinese Chemical Letters</i> , 2021, 32, 339-344.	4.8	40
7	Melamine-based polymer networks enabled N, O, S Co-doped defect-rich hierarchically porous carbon nanobelts for stable and long-cycle Li-ion and Li-Se batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 60-69.	5.0	34
8	Single-cell yolk-shell nanoencapsulation for long-term viability with size-dependent permeability and molecular recognition. <i>National Science Review</i> , 2021, 8, nwaa097.	4.6	23
9	Near-equiaxial high-entropy decagonal quasicrystal in Al ₂₀ Si ₂₀ Mn ₂₀ Fe ₂₀ Ga ₂₀ . <i>Science China Materials</i> , 2021, 64, 440-447.	3.5	9
10	Growing ordered CuO nanorods on 2D Cu/g-C ₃ N ₄ nanosheets as stable freestanding anode for outstanding lithium storage. <i>Chemical Engineering Journal</i> , 2021, 407, 126941.	6.6	33
11	Revealing the Origin of Highly Efficient Polysulfide Anchoring and Transformation on Anion-Substituted Vanadium Nitride Host. <i>Advanced Functional Materials</i> , 2021, 31, 2008034.	7.8	39
12	Interwoven scaffolded porous titanium oxide nanocubes/carbon nanotubes framework for high-performance sodium-ion battery. <i>Journal of Energy Chemistry</i> , 2021, 59, 38-46.	7.1	25
13	n-p Heterojunction of TiO ₂ -NiO core-shell structure for efficient hydrogen generation and lignin photoreforming. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 694-704.	5.0	91
14	Coproduction of hydrogen and lactic acid from glucose photocatalysis on band-engineered Zn _{1-x} Cd _x S homojunction. <i>IScience</i> , 2021, 24, 102109.	1.9	61
15	Interface cation migration kinetics induced oxygen release heterogeneity in layered lithium cathodes. <i>Energy Storage Materials</i> , 2021, 36, 115-122.	9.5	23
16	Probing the Electron Beam-Induced Structural Evolution of Halide Perovskite Thin Films by Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10786-10794.	1.5	13
17	Embedding tin disulfide nanoparticles in two-dimensional porous carbon nanosheet interlayers for fast-charging lithium-sulfur batteries. <i>Science China Materials</i> , 2021, 64, 2697-2709.	3.5	16
18	Weaving 3D highly conductive hierarchically interconnected nanoporous web by threading MOF crystals onto multi-walled carbon nanotubes for high performance Li- ⁺ Se battery. <i>Journal of Energy Chemistry</i> , 2021, 59, 396-404.	7.1	43

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19	Phase-junction Ag/TiO ₂ nanocomposite as photocathode for H ₂ generation. <i>Journal of Materials Science and Technology</i> , 2021, 83, 179-187.	5.6	52
20	The free-standing N-doped Murray carbon framework with the engineered quasi-optimal Se/C interface for high-rate Se-loading Li/Na-Se batteries at elevated temperature. <i>Materials Today Energy</i> , 2021, 21, 100808.	2.5	8
21	Tris(trimethylsilyl) borate as electrolyte additive alleviating cathode electrolyte interphase for enhanced lithium-selenium battery. <i>Electrochimica Acta</i> , 2021, 393, 139042.	2.6	12
22	Size effect of bifunctional gold in hierarchical titanium oxide-gold-cadmium sulfide with slow photon effect for unprecedented visible-light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 131-140.	5.0	23
23	Hollow nitrogen-doped carbon/sulfur@MnO ₂ nanocomposite with structural and chemical dual-encapsulation for lithium-sulfur battery. <i>Chemical Engineering Journal</i> , 2020, 381, 122746.	6.6	66
24	A flexible, hierarchically porous PANI/MnO ₂ network with fast channels and an extraordinary chemical process for stable fast-charging lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2741-2751.	5.2	50
25	Hierarchical TiO ₂ microsphere assembled from nanosheets with high photocatalytic activity and stability. <i>Chemical Physics Letters</i> , 2020, 739, 136989.	1.2	8
26	Hierarchical Zeolite Single-Crystal Reactor for Excellent Catalytic Efficiency. <i>Matter</i> , 2020, 3, 1226-1245.	5.0	66
27	Excellent Excitonic Photovoltaic Effect in 2D CsPbBr ₃ /CdS Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2006166.	7.8	38
28	Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. <i>IScience</i> , 2020, 23, 101793.	1.9	45
29	Atomic-resolution fine structure and chemical reaction mechanism of Gd/YbAl ₃ thermoelectric-magnetocaloric heterointerface. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154722.	2.8	1
30	Micron-Sized Zeolite Beta Single Crystals Featuring Intracrystal Interconnected Ordered Macro-Meso-Microporosity Displaying Superior Catalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19582-19591.	7.2	61
31	Unprecedented and highly stable lithium storage capacity of (001) faceted nanosheet-constructed hierarchically porous TiO ₂ /rGO hybrid architecture for high-performance Li-ion batteries. <i>National Science Review</i> , 2020, 7, 1046-1058.	4.6	46
32	Realizing both n- and p-types of high thermoelectric performance in Fe _{1-x} Ni _x TiSb half-Heusler compounds. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3156-3164.	2.7	11
33	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 1908902.	7.8	28
34	Spatial Heterojunction in Nanostructured TiO ₂ and Its Cascade Effect for Efficient Photocatalysis. <i>Nano Letters</i> , 2020, 20, 3122-3129.	4.5	74
35	In-Situ Growing Mesoporous CuO/O-Doped g-C ₃ N ₄ Nanospheres for Highly Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32957-32968.	4.0	78
36	Synthesis of monodispersed CoMoO ₄ nanoclusters on the ordered mesoporous carbons for environment-friendly supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151841.	2.8	28

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37	One-Step Growth of Amorphous/Crystalline Ga ₂ O ₃ Phase Junctions for High-Performance Solar-Blind Photodetection. ACS Applied Materials & Interfaces, 2019, 11, 45922-45929.	4.0	67
38	Synergistic catalysis of Pd nanoparticles with both Lewis and Bronsted acid sites encapsulated within a sulfonated metal-organic frameworks toward one-pot tandem reactions. Journal of Colloid and Interface Science, 2019, 557, 207-215.	5.0	22
39	Probing and suppressing voltage fade of Li-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode material for lithium-ion battery. Electrochimica Acta, 2019, 318, 875-882.	2.6	42
40	Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. Journal of Catalysis, 2019, 375, 164-170.	3.1	133
41	Molybdenum disulfide quantum dots directing zinc indium sulfide heterostructures for enhanced visible light hydrogen production. Journal of Colloid and Interface Science, 2019, 551, 111-118.	5.0	35
42	MOF-derived nitrogen-doped core-shell hierarchical porous carbon confining selenium for advanced lithium-selenium batteries. Nanoscale, 2019, 11, 6970-6981.	2.8	83
43	Oxygen-deficient titanium dioxide as a functional host for lithium-sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 10346-10353.	5.2	109
44	Highly biocompatible Co@Silica@meso-Silica magnetic nanocarriers. Chemical Physics Letters, 2019, 717, 29-33.	1.2	9
45	A facile synthesis of Ag@PdAg core-shell architecture for efficient purification of ethene feedstock. Journal of Catalysis, 2019, 369, 440-449.	3.1	26
46	Cascade electronic band structured zinc oxide/bismuth vanadate/three-dimensional ordered macroporous titanium dioxide ternary nanocomposites for enhanced visible light photocatalysis. Journal of Colloid and Interface Science, 2019, 539, 585-597.	5.0	20
47	Type II heterojunction in hierarchically porous zinc oxide/graphitic carbon nitride microspheres promoting photocatalytic activity. Journal of Colloid and Interface Science, 2019, 538, 99-107.	5.0	49
48	Probing conducting polymers@cadmium sulfide core-shell nanorods for highly improved photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2018, 521, 1-10.	5.0	48
49	Selenium clusters in Zn-glutamate MOF derived nitrogen-doped hierarchically radial-structured microporous carbon for advanced rechargeable Na-Se batteries. Journal of Materials Chemistry A, 2018, 6, 22790-22797.	5.2	62
50	π-π stacking for capturing-releasing Au clusters in meso-structured system. Chemical Physics Letters, 2018, 712, 134-138.	1.2	2
51	3D Ferroconcrete-Like Aminated Carbon Nanotubes Network Anchoring Sulfur for Advanced Lithium-Sulfur Battery. Advanced Energy Materials, 2018, 8, 1801066.	10.2	115
52	One-Step Microheterogeneous Formation of Rutile@Anatase Core-Shell Nanostructured Microspheres Discovered by Precise Phase Mapping. Journal of Physical Chemistry C, 2017, 121, 4443-4450.	1.5	9
53	BiVO ₄ /3DOM TiO ₂ nanocomposites: Effect of BiVO ₄ as highly efficient visible light sensitizer for highly improved visible light photocatalytic activity in the degradation of dye pollutants. Applied Catalysis B: Environmental, 2017, 205, 121-132.	10.8	100
54	Cocatalyzing Pt/PtO Phase-Junction Nanodots on Hierarchically Porous TiO ₂ for Highly Enhanced Photocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2017, 9, 29687-29698.	4.0	51

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55	Probing the electrochemical behavior of {111} and {110} faceted hollow Cu ₂ O microspheres for lithium storage. RSC Advances, 2016, 6, 97129-97136.	1.7	13
56	Diatom silica-titania photocatalysts for air purification by bio-accumulation of different titanium sources. Environmental Science: Nano, 2016, 3, 1052-1061.	2.2	24
57	Effects of Nanostructure and Coating on the Mechanics of Carbon Nanotube Arrays. Advanced Functional Materials, 2016, 26, 1233-1242.	7.8	25
58	3D interconnected hierarchically macro-mesoporous TiO ₂ networks optimized by biomolecular self-assembly for high performance lithium ion batteries. RSC Advances, 2016, 6, 26856-26862.	1.7	19
59	2D ZnO mesoporous single-crystal nanosheets with exposed {0001} polar facets for the depollution of cationic dye molecules by highly selective adsorption and photocatalytic decomposition. Applied Catalysis B: Environmental, 2016, 181, 138-145.	10.8	95
60	A Stable, Reusable, and Highly Active Photosynthetic Bioreactor by Bio-Interfacing an Individual Cyanobacterium with a Mesoporous Bilayer Nanoshell. Small, 2015, 11, 2003-2010.	5.2	39
61	Novel 3DOM BiVO ₄ /TiO ₂ nanocomposites for highly enhanced photocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 21244-21256.	5.2	139
62	One particle@one cell: Highly monodispersed PtPd bimetallic nanoparticles for enhanced oxygen reduction reaction. Nano Energy, 2014, 8, 214-222.	8.2	66
63	Hydrothermal and surfactant treatment to enhance the photocatalytic activity of hierarchically meso-macroporous titanias. Catalysis Today, 2013, 212, 89-97.	2.2	14
64	Mesoporous Titanium Dioxide (TiO ₂) with hierarchically 3D dendrimeric architectures: Formation mechanism and highly enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2013, 394, 252-262.	5.0	12
65	Tailoring CuO nanostructures for enhanced photocatalytic property. Journal of Colloid and Interface Science, 2012, 384, 1-9.	5.0	162
66	Tuning the structure of a hierarchically porous ZrO ₂ for dye molecule depollution. Microporous and Mesoporous Materials, 2012, 152, 110-121.	2.2	10