

Hao Wang

List of Publications by Year in descending order

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65
papers

5,346
citations

117625

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65
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all docs

66
docs citations

66
times ranked

7009
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition metal nitrides for electrochemical energy applications. <i>Chemical Society Reviews</i> , 2021, 50, 1354-1390.	38.1	580
2	Structural and Electronic Optimization of MoS ₂ Edges for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2019, 141, 18578-18584.	13.7	292
3	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2020, 30, 2000842.	14.9	276
4	Co ²⁺ -Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. <i>Small</i> , 2020, 16, e2002426.	10.0	263
5	Intercrossed Carbon Nanorings with Pure Surface States as Low-Cost and Environment-Friendly Phosphors for White-Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1759-1764.	13.8	238
6	Topochemical synthesis of 2D materials. <i>Chemical Society Reviews</i> , 2018, 47, 8744-8765.	38.1	232
7	Robust, Lightweight, Hydrophobic, and Fire-Retarded Polyimide/MXene Aerogels for Effective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40512-40523.	8.0	230
8	In Situ Formation of Cobalt Nitrides/Graphitic Carbon Composites as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7134-7144.	8.0	227
9	Ultrasmall Glutathione-Protected Gold Nanoclusters as Next Generation Radiotherapy Sensitizers with High Tumor Uptake and High Renal Clearance. <i>Scientific Reports</i> , 2015, 5, 8669.	3.3	212
10	Recent advances in structural engineering of MXene electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10604-10624.	10.3	201
11	Electronic Modulation of Non-van der Waals 2D Electrocatalysts for Efficient Energy Conversion. <i>Advanced Materials</i> , 2021, 33, e2008422.	21.0	190
12	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , 2021, 11, 2003025.	19.5	152
13	Confined growth of pyridinic N-MoS ₂ sites on MXenes for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7109-7116.	10.3	148
14	Nitrogen-Doped Carbon Dots for "Green" Quantum Dot Solar Cells. <i>Nanoscale Research Letters</i> , 2016, 11, 27.	5.7	146
15	Strongly Coupled Molybdenum Carbide on Carbon Sheets as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2017, 10, 3540-3546.	6.8	114
16	Recent developments in electrochemical hydrogen evolution reaction. <i>Current Opinion in Electrochemistry</i> , 2018, 7, 7-14.	4.8	95
17	Molybdenum carbide nanoparticles embedded in nitrogen-doped porous carbon nanofibers as a dual catalyst for hydrogen evolution and oxygen reduction reactions. <i>Carbon</i> , 2017, 114, 628-634.	10.3	94
18	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , 2019, 31, e1902393.	21.0	93

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19	Novel non-hydrazine solution processing of earth-abundant Cu ₂ ZnSn(S,Se) ₄ absorbers for thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6880.	10.3	92
20	Ti ₃ C ₂ T _x MXene Sponge Composite as Broadband Terahertz Absorber. <i>Advanced Optical Materials</i> , 2020, 8, 2001120.	7.3	91
21	Optimizing MoS ₂ Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 9529-9536.	11.2	83
22	Effects of surface charges of gold nanoclusters on long-term in vivo biodistribution, toxicity, and cancer radiation therapy. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 3475-3485.	6.7	78
23	Flexible cobalt phosphide network electrocatalyst for hydrogen evolution at all pH values. <i>Nano Research</i> , 2017, 10, 1010-1020.	10.4	76
24	High-Performance Hydrogen Evolution Electrocatalyst Derived from Ni ₃ C Nanoparticles Embedded in a Porous Carbon Network. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 60-64.	8.0	68
25	Molecularly Thin Nitride Sheets Stabilized by Titanium Carbide as Efficient Bifunctional Electrocatalysts for Fiber-Shaped Rechargeable Zinc-Air Batteries. <i>Nano Letters</i> , 2020, 20, 2892-2898.	9.1	68
26	Scalable Synthesis of Ultrathin Mn ₃ N ₂ Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , 2019, 29, 1809001.	14.9	67
27	Intercalation in Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) toward Electrochemical Capacitor and Beyond. <i>Energy and Environmental Materials</i> , 2020, 3, 306-322.	12.8	66
28	A Bi ₂ S ₃ @CNT nanocomposite as anode material for sodium ion batteries. <i>Materials Letters</i> , 2016, 167, 102-105.	2.6	64
29	Defect engineering of molybdenum disulfide through ion irradiation to boost hydrogen evolution reaction performance. <i>Nano Research</i> , 2019, 12, 1613-1618.	10.4	62
30	Electrochemical Performances of MoO ₂ /C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. <i>Electrochimica Acta</i> , 2017, 240, 379-387.	5.2	54
31	Environmental-Friendly Urea Additive Induced Large Perovskite Grains for High Performance Inverted Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800054.	5.8	51
32	Enhanced Rate Capability of Ion-Accessible Ti ₃ C ₂ T _x -NbN Hybrid Electrodes. <i>Advanced Energy Materials</i> , 2020, 10, 2001411.	19.5	50
33	Thickness-dependent bandgap tunable molybdenum disulfide films for optoelectronics. <i>RSC Advances</i> , 2016, 6, 110604-110609.	3.6	43
34	Fluorescently tuned nitrogen-doped carbon dots from carbon source with different content of carboxyl groups. <i>APL Materials</i> , 2015, 3, .	5.1	42
35	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage. <i>ACS Nano</i> , 2022, 16, 1502-1510.	14.6	35
36	Hierarchically interconnected nitrogen-doped carbon nanosheets for an efficient hydrogen evolution reaction. <i>Nanoscale</i> , 2017, 9, 16342-16348.	5.6	33

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37	All-MXene Cotton-Based Supercapacitor-Powered Human Body Thermal Management System. <i>ChemElectroChem</i> , 2021, 8, 648-655.	3.4	33
38	Observation of ambipolar photoresponse from 2D MoS ₂ /MXene heterostructure. <i>Nano Research</i> , 2021, 14, 3416-3422.	10.4	31
39	Tuning Bandgap of <i>p</i> -Type Cu ₂ Zn(Sn, Ge)(S, Se) ₄ Semiconductor Thin Films via Aqueous Polymer-Assisted Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1602-1608.	8.0	29
40	Sulfur-Doped Rhenium Selenide Vertical Nanosheets: A High-Performance Electrocatalyst for Hydrogen Evolution. <i>ChemCatChem</i> , 2018, 10, 4424-4430.	3.7	28
41	Mid-infrared single photon detector with superconductor Mo _{0.8} Si _{0.2} nanowire. <i>Science Bulletin</i> , 2021, 66, 965-968.	9.0	23
42	Synergistic integration of metal nanoclusters and biomolecules as hybrid systems for therapeutic applications. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 1175-1199.	12.0	23
43	Defect Engineering of Molybdenum-Based Materials for Electrocatalysis. <i>Catalysts</i> , 2020, 10, 1301.	3.5	21
44	A new chemosensor for Ga ³⁺ detection by fluorescent nitrogen-doped graphitic carbon dots. <i>RSC Advances</i> , 2015, 5, 13036-13041.	3.6	20
45	Tailorable electrochemical performance of spinel cathode materials via in-situ integrating a layered Li ₂ MnO ₃ phase for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 333, 43-52.	7.8	19
46	Self-Cleaning Glass of Photocatalytic Anatase TiO ₂ @Carbon Nanotubes Thin Film by Polymer-Assisted Approach. <i>Nanoscale Research Letters</i> , 2016, 11, 457.	5.7	19
47	Emission switching in carbon dots coated CdTe quantum dots driving by pH dependent hetero-interactions. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	17
48	Different toxicity of cadmium telluride, silicon, and carbon nanomaterials against hemocytes in silkworm, <i>Bombyx mori</i> . <i>RSC Advances</i> , 2017, 7, 50317-50327.	3.6	16
49	Amorphous RuS ₂ electrocatalyst with optimized active sites for hydrogen evolution. <i>Nanotechnology</i> , 2020, 31, 145401.	2.6	16
50	Lidar with superconducting nanowire single-photon detectors: Recent advances and developments. <i>Optics and Lasers in Engineering</i> , 2022, 156, 107102.	3.8	16
51	Hierarchically Constructed ZnO/Co ₃ O ₄ Nanoheterostructures Synergizing Dendrite Inhibition and Polysulfide Conversion in Lithium-Sulfur Battery. , 2022, 4, 1358-1367.		14
52	Silk fibroin-derived peptide directed silver nanoclusters for cell imaging. <i>RSC Advances</i> , 2018, 8, 27805-27810.	3.6	13
53	An alternative route towards monodisperse CdS quantum dots for hybrid solar cells. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 124-128.	4.0	12
54	Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO ₂ Photoanode for Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2021, 4, 14440-14446.	5.1	12

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55	A universal, green, and self-reliant electrolytic approach to high-entropy layered (oxy)hydroxide nanosheets for efficient electrocatalytic water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 500-510.	9.4	10
56	High-stability Ti ⁴⁺ precursor for the TiO ₂ compact layer of dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015, 356, 587-592.	6.1	9
57	High-performance oxygen reduction catalyst derived from porous, nitrogen-doped carbon nanosheets. <i>Nanotechnology</i> , 2016, 27, 405401.	2.6	9
58	Nitrile chain reactions for cyano-based ionic liquid derived mesoporous carbon as efficient bifunctional electrocatalyst. <i>Electrochimica Acta</i> , 2018, 280, 258-265.	5.2	9
59	Saturation efficiency for detecting 1550-nm photons with a 2D array of Mo _{0.8} Si _{0.2} nanowires at 2.2K. <i>Photonics Research</i> , 2021, 9, 389.	7.0	9
60	Interconnected Two-dimensional Arrays of Niobium Nitride Nanocrystals as Stable Lithium Host. <i>Batteries and Supercaps</i> , 2021, 4, 106-111.	4.7	7
61	Water-Soluble Silicon Quantum Dots with Quasi-Blue Emission. <i>Nanoscale Research Letters</i> , 2015, 10, 1012.	5.7	6
62	Suppression of superconductivity dominated by proximity effect in amorphous MoSi nanobelts. <i>Physical Review B</i> , 2022, 105, .	3.2	6
63	Three-armed imidazolium phenoxy ionic liquid as a novel crystal growth inhibitor for solid-state dye-sensitized solar cells. <i>Materials Letters</i> , 2015, 160, 135-138.	2.6	2
64	One-step aqueous solution route toward depositing transparent carbon film onto different quartz substrate. <i>Materials Letters</i> , 2016, 185, 135-138.	2.6	2
65	Low temperature route synthesis of SiC/Al ₂ O ₃ hetero-structural nanofibers. <i>Nanotechnology</i> , 2014, 25, 014017.	2.6	1