

# Hao Wang

## List of Publications by Citations

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63

papers

3,043

citations

31

h-index

55

g-index

66

ext. papers

4,173

ext. citations

10.2

avg, IF

5.91

L-index

#	Paper	IF	Citations
63	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> , <b>2015</b> , 54, 1759-64	16.4	213
62	Transition metal nitrides for electrochemical energy applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 1354-1390	58.5	207
61	Ultrasmall glutathione-protected gold nanoclusters as next generation radiotherapy sensitizers with high tumor uptake and high renal clearance. <i>Scientific Reports</i> , <b>2015</b> , 5, 8669	4.9	183
60	In Situ Formation of Cobalt Nitrides/Graphitic Carbon Composites as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7134-7144	9.5	166
59	Structural and Electronic Optimization of MoS Edges for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18578-18584	16.4	150
58	Topochemical synthesis of 2D materials. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 8744-8765	58.5	142
57	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000842	15.6	132
56	Robust, Lightweight, Hydrophobic, and Fire-Retarded Polyimide/MXene Aerogels for Effective Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40512-40523	9.5	120
55	Nitrogen-Doped Carbon Dots for "green" Quantum Dot Solar Cells. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 27	5	102
54	Recent advances in structural engineering of MXene electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10604-10624	13	94
53	Co-Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. <i>Small</i> , <b>2020</b> , 16, e2002426	24.26	87
52	Strongly Coupled Molybdenum Carbide on Carbon Sheets as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , <b>2017</b> , 10, 3540-3546	8.3	84
51	Molybdenum carbide nanoparticles embedded in nitrogen-doped porous carbon nanofibers as a dual catalyst for hydrogen evolution and oxygen reduction reactions. <i>Carbon</i> , <b>2017</b> , 114, 628-634	10.4	83
50	Novel non-hydrazine solution processing of earth-abundant Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> absorbers for thin-film solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6880	13	83
49	Confined growth of pyridinic N/Mo <sub>2</sub> C sites on MXenes for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7109-7116	13	78
48	Recent developments in electrochemical hydrogen evolution reaction. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 7, 7-14	7.2	69
47	Electronic Modulation of Non-van der Waals 2D Electrocatalysts for Efficient Energy Conversion. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008422	24	68

46	Flexible cobalt phosphide network electrocatalyst for hydrogen evolution at all pH values. <i>Nano Research</i> , <b>2017</b> , 10, 1010-1020	10	63
45	Effects of surface charges of gold nanoclusters on long-term in vivo biodistribution, toxicity, and cancer radiation therapy. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 3475-85	7.3	61
44	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902394	21.1	59
43	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003025	21.8	59
42	Optimizing MoS <sub>2</sub> Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9529-9536	13.1	54
41	High-Performance Hydrogen Evolution Electrocatalyst Derived from NiC Nanoparticles Embedded in a Porous Carbon Network. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 60-64	9.5	51
40	A Bi <sub>2</sub> S <sub>3</sub> @CNT nanocomposite as anode material for sodium ion batteries. <i>Materials Letters</i> , <b>2016</b> , 167, 102-105	3.3	51
39	Electrochemical Performances of MoO <sub>2</sub> /C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. <i>Electrochimica Acta</i> , <b>2017</b> , 240, 379-387	6.7	41
38	Molecularly Thin Nitride Sheets Stabilized by Titanium Carbide as Efficient Bifunctional Electrocatalysts for Fiber-Shaped Rechargeable Zinc-Air Batteries. <i>Nano Letters</i> , <b>2020</b> , 20, 2892-2898	11.5	38
37	Environmental-Friendly Urea Additive Induced Large Perovskite Grains for High Performance Inverted Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800054	7.1	38
36	Scalable Synthesis of Ultrathin Mn <sub>3</sub> N <sub>2</sub> Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809001	15.6	37
35	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Sponge Composite as Broadband Terahertz Absorber. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001120	8.1	36
34	Fluorescently tuned nitrogen-doped carbon dots from carbon source with different content of carboxyl groups. <i>APL Materials</i> , <b>2015</b> , 3, 086102	5.7	33
33	Defect engineering of molybdenum disulfide through ion irradiation to boost hydrogen evolution reaction performance. <i>Nano Research</i> , <b>2019</b> , 12, 1613-1618	10	31
32	Thickness-dependent bandgap tunable molybdenum disulfide films for optoelectronics. <i>RSC Advances</i> , <b>2016</b> , 6, 110604-110609	3.7	29
31	Enhanced Rate Capability of Ion-Accessible Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -NbN Hybrid Electrodes. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001411	21.8	28
30	Hierarchically interconnected nitrogen-doped carbon nanosheets for an efficient hydrogen evolution reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 16342-16348	7.7	27
29	Tuning Bandgap of p-Type CuZn(Sn, Ge)(S, Se) Semiconductor Thin Films via Aqueous Polymer-Assisted Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1602-1608	9.5	21

28	Sulfur-Doped Rhenium Selenide Vertical Nanosheets: A High-Performance Electrocatalyst for Hydrogen Evolution. <i>ChemCatChem</i> , <b>2018</b> , 10, 4424-4430	5.2	20
27	A new chemosensor for Ga <sup>3+</sup> detection by fluorescent nitrogen-doped graphitic carbon dots. <i>RSC Advances</i> , <b>2015</b> , 5, 13036-13041	3.7	20
26	Intercalation in Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) toward Electrochemical Capacitor and Beyond. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 306-322	13	17
25	Tailorable electrochemical performance of spinel cathode materials via in-situ integrating a layered Li <sub>2</sub> MnO <sub>3</sub> phase for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 333, 43-52	8.9	17
24	Self-Cleaning Glass of Photocatalytic Anatase TiO <sub>2</sub> @Carbon Nanotubes Thin Film by Polymer-Assisted Approach. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 457	5	12
23	An alternative route towards monodisperse CdS quantum dots for hybrid solar cells. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 149-150, 124-128	4.4	11
22	Emission switching in carbon dots coated CdTe quantum dots driving by pH dependent hetero-interactions. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 203108	3.4	11
21	Different toxicity of cadmium telluride, silicon, and carbon nanomaterials against hemocytes in silkworm, <i>Bombyx mori</i> . <i>RSC Advances</i> , <b>2017</b> , 7, 50317-50327	3.7	9
20	Silk fibroin-derived peptide directed silver nanoclusters for cell imaging.. <i>RSC Advances</i> , <b>2018</b> , 8, 27805-27810	3.7	9
19	Observation of ambipolar photoresponse from 2D MoS <sub>2</sub> /MXene heterostructure. <i>Nano Research</i> , <b>2021</b> , 14, 3416-3422	10	9
18	All-MXene Cotton-Based Supercapacitor-Powered Human Body Thermal Management System. <i>ChemElectroChem</i> , <b>2021</b> , 8, 648-655	4.3	9
17	High-stability Ti <sup>4+</sup> precursor for the TiO <sub>2</sub> compact layer of dye-sensitized solar cells. <i>Applied Surface Science</i> , <b>2015</b> , 356, 587-592	6.7	8
16	High-performance oxygen reduction catalyst derived from porous, nitrogen-doped carbon nanosheets. <i>Nanotechnology</i> , <b>2016</b> , 27, 405401	3.4	8
15	Amorphous RuS electrocatalyst with optimized active sites for hydrogen evolution. <i>Nanotechnology</i> , <b>2020</b> , 31, 145401	3.4	7
14	Mid-infrared single photon detector with superconductor Mo <sub>0.8</sub> Si <sub>0.2</sub> nanowire. <i>Science Bulletin</i> , <b>2021</b> , 66, 965-968	10.6	7
13	Synergistic integration of metal nanoclusters and biomolecules as hybrid systems for therapeutic applications. <i>Acta Pharmaceutica Sinica B</i> , <b>2021</b> , 11, 1175-1199	15.5	7
12	Nitrile chain reactions for cyano-based ionic liquid derived mesoporous carbon as efficient bifunctional electrocatalyst. <i>Electrochimica Acta</i> , <b>2018</b> , 280, 258-265	6.7	7
11	Defect Engineering of Molybdenum-Based Materials for Electrocatalysis. <i>Catalysts</i> , <b>2020</b> , 10, 1301	4	6

10	Water-Soluble Silicon Quantum Dots with Quasi-Blue Emission. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 1012	5	5
9	Interconnected Two-dimensional Arrays of Niobium Nitride Nanocrystals as Stable Lithium Host. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 106-111	5.6	4
8	Saturation efficiency for detecting 1550 nm photons with a 2D array of MoO <sub>3</sub> /SiO <sub>2</sub> nanowires at room temperature. <i>Photonics Research</i> , <b>2021</b> , 9, 389	6	4
7	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage. <i>ACS Nano</i> , <b>2022</b> ,	16.7	3
6	Three-armed imidazolium phenoxy ionic liquid as a novel crystal growth inhibitor for solid-state dye-sensitized solar cells. <i>Materials Letters</i> , <b>2015</b> , 160, 135-138	3.3	1
5	One-step aqueous solution route toward depositing transparent carbon film onto different substrates. <i>Materials Letters</i> , <b>2016</b> , 185, 135-138	3.3	1
4	Low temperature route synthesis of SiC-Al <sub>2</sub> O <sub>3</sub> hetero-structural nanofibers. <i>Nanotechnology</i> , <b>2014</b> , 25, 014017	3.4	1
3	Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO <sub>2</sub> Photoanode for Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14440-14446	6.1	1
2	Lidar with superconducting nanowire single-photon detectors: Recent advances and developments. <i>Optics and Lasers in Engineering</i> , <b>2022</b> , 156, 107102	4.6	1
1	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> , <b>2022</b> , 617, 500-510	9.3	0