

Hao Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage.. <i>ACS Nano</i> , 2022 ,	16.7	3
62	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	9.3	0
61	Lidar with superconducting nanowire single-photon detectors: Recent advances and developments. <i>Optics and Lasers in Engineering</i> , 2022 , 156, 107102	4.6	1
60	Mid-infrared single photon detector with superconductor Mo _{0.8} Si _{0.2} nanowire. <i>Science Bulletin</i> , 2021 , 66, 965-968	10.6	7
59	Synergistic integration of metal nanoclusters and biomolecules as hybrid systems for therapeutic applications. <i>Acta Pharmaceutica Sinica B</i> , 2021 , 11, 1175-1199	15.5	7
58	Observation of ambipolar photoresponse from 2D MoS ₂ /MXene heterostructure. <i>Nano Research</i> , 2021 , 14, 3416-3422	10	9
57	Electronic Modulation of Non-van der Waals 2D Electrocatalysts for Efficient Energy Conversion. <i>Advanced Materials</i> , 2021 , 33, e2008422	24	68
56	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , 2021 , 11, 2003025	21.8	59
55	All-MXene Cotton-Based Supercapacitor-Powered Human Body Thermal Management System. <i>ChemElectroChem</i> , 2021 , 8, 648-655	4.3	9
54	Interconnected Two-dimensional Arrays of Niobium Nitride Nanocrystals as Stable Lithium Host. <i>Batteries and Supercaps</i> , 2021 , 4, 106-111	5.6	4
53	Saturation efficiency for detecting 1550 nm photons with a 2 D array of Mo _{0.8} Si _{0.2} nanowires at 22 K. <i>Photonics Research</i> , 2021 , 9, 389	6	4
52	Transition metal nitrides for electrochemical energy applications. <i>Chemical Society Reviews</i> , 2021 , 50, 1354-1390	58.5	207
51	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	6.1	1
50	Recent advances in structural engineering of MXene electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10604-10624	13	94
49	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	13	17
48	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2020 , 30, 2000842	15.6	132
47	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	11.5	38

46	Confined growth of pyridinic N/Mo ₂ C sites on MXenes for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7109-7116	13	78
45	Amorphous RuS electrocatalyst with optimized active sites for hydrogen evolution. <i>Nanotechnology</i> , 2020 , 31, 145401	3.4	7
44	Defect Engineering of Molybdenum-Based Materials for Electrocatalysis. <i>Catalysts</i> , 2020 , 10, 1301	4	6
43	Enhanced Rate Capability of Ion-Accessible Ti ₃ C ₂ T _x -NbN Hybrid Electrodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2001411	21.8	28
42	Ti ₃ C ₂ T _x MXene Sponge Composite as Broadband Terahertz Absorber. <i>Advanced Optical Materials</i> , 2020 , 8, 2001120	8.1	36
41	Co-Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. <i>Small</i> , 2020 , 16, e2002426	24	87
40	Robust, Lightweight, Hydrophobic, and Fire-Retarded Polyimide/MXene Aerogels for Effective Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40512-40523	9.5	120
39	Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , 2019 , 31, e1902393	24	59
38	Defect engineering of molybdenum disulfide through ion irradiation to boost hydrogen evolution reaction performance. <i>Nano Research</i> , 2019 , 12, 1613-1618	10	31
37	Scalable Synthesis of Ultrathin Mn ₃ N ₂ Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , 2019 , 29, 1809001	15.6	37
36	Structural and Electronic Optimization of MoS Edges for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18578-18584	16.4	150
35	Environmental-Friendly Urea Additive Induced Large Perovskite Grains for High Performance Inverted Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800054	7.1	38
34	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	9.5	166
33	Recent developments in electrochemical hydrogen evolution reaction. <i>Current Opinion in Electrochemistry</i> , 2018 , 7, 7-14	7.2	69
32	Silk fibroin-derived peptide directed silver nanoclusters for cell imaging.. <i>RSC Advances</i> , 2018 , 8, 27805-27810	3.8	9
31	Sulfur-Doped Rhenium Selenide Vertical Nanosheets: A High-Performance Electrocatalyst for Hydrogen Evolution. <i>ChemCatChem</i> , 2018 , 10, 4424-4430	5.2	20
30	Topochemical synthesis of 2D materials. <i>Chemical Society Reviews</i> , 2018 , 47, 8744-8765	58.5	142
29	Optimizing MoS ₂ Edges by Alloying Isovalent W for Robust Hydrogen Evolution Activity. <i>ACS Catalysis</i> , 2018 , 8, 9529-9536	13.1	54

28	Nitrile chain reactions for cyano-based ionic liquid derived mesoporous carbon as efficient bifunctional electrocatalyst. <i>Electrochimica Acta</i> , 2018 , 280, 258-265	6.7	7
27	Flexible cobalt phosphide network electrocatalyst for hydrogen evolution at all pH values. <i>Nano Research</i> , 2017 , 10, 1010-1020	10	63
26	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	6.7	41
25	High-Performance Hydrogen Evolution Electrocatalyst Derived from NiC Nanoparticles Embedded in a Porous Carbon Network. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 60-64	9.5	51
24	Tuning Bandgap of p-Type CuZn(Sn, Ge)(S, Se) Semiconductor Thin Films via Aqueous Polymer-Assisted Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1602-1608	9.5	21
23	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	10.4	83
22	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	3.7	9
21	Hierarchically interconnected nitrogen-doped carbon nanosheets for an efficient hydrogen evolution reaction. <i>Nanoscale</i> , 2017 , 9, 16342-16348	7.7	27
20	Strongly Coupled Molybdenum Carbide on Carbon Sheets as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2017 , 10, 3540-3546	8.3	84
19	One-step aqueous solution route toward depositing transparent carbon film onto different quartz substrate. <i>Materials Letters</i> , 2016 , 185, 135-138	3.3	1
18	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	12
17	High-performance oxygen reduction catalyst derived from porous, nitrogen-doped carbon nanosheets. <i>Nanotechnology</i> , 2016 , 27, 405401	3.4	8
16	Thickness-dependent bandgap tunable molybdenum disulfide films for optoelectronics. <i>RSC Advances</i> , 2016 , 6, 110604-110609	3.7	29
15	Nitrogen-Doped Carbon Dots for "green" Quantum Dot Solar Cells. <i>Nanoscale Research Letters</i> , 2016 , 11, 27	5	102
14	A Bi ₂ S ₃ @CNT nanocomposite as anode material for sodium ion batteries. <i>Materials Letters</i> , 2016 , 167, 102-105	3.3	51
13	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 , 11, 3475-85	7.3	61
12	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	8.9	17
11	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	3.3	1

10	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	4.9	183
9	Fluorescently tuned nitrogen-doped carbon dots from carbon source with different content of carboxyl groups. <i>APL Materials</i> , 2015 , 3, 086102	5.7	33
8	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	6.7	8
7	An alternative route towards monodisperse CdS quantum dots for hybrid solar cells. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 124-128	4.4	11
6	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, 1759-64	16.4	213
5	Emission switching in carbon dots coated CdTe quantum dots driving by pH dependent hetero-interactions. <i>Applied Physics Letters</i> , 2015 , 107, 203108	3.4	11
4	Water-Soluble Silicon Quantum Dots with Quasi-Blue Emission. <i>Nanoscale Research Letters</i> , 2015 , 10, 1012	5	5
3	A new chemosensor for Ga ³⁺ detection by fluorescent nitrogen-doped graphitic carbon dots. <i>RSC Advances</i> , 2015 , 5, 13036-13041	3.7	20
2	Low temperature route synthesis of SiC-Al ₂ O ₃ hetero-structural nanofibers. <i>Nanotechnology</i> , 2014 , 25, 014017	3.4	1
1	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	13	83