

# Hanbin Wang

## List of Publications by Year in descending order

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27  
papers

941  
citations

567281

15  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co <sup>2+/3+/4+</sup> Regulated Electron State of MnO for Superb Aqueous Zinc-Manganese Oxide Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003203.	19.5	144
2	Bendable ITO-free Organic Solar Cells with Highly Conductive and Flexible PEDOT:PSS Electrodes on Plastic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16287-16295.	8.0	112
3	Ni-Co selenide nanowires supported on conductive wearable textile as cathode for flexible battery-supercapacitor hybrid devices. <i>Chemical Engineering Journal</i> , 2020, 400, 125955.	12.7	96
4	High conductivity Ni <sub>12</sub> P <sub>5</sub> nanowires as high-rate electrode material for battery-supercapacitor hybrid devices. <i>Chemical Engineering Journal</i> , 2020, 392, 123661.	12.7	78
5	Favorable anion adsorption/desorption of high rate NiSe <sub>2</sub> nanosheets/hollow mesoporous carbon for battery-supercapacitor hybrid devices. <i>Nano Research</i> , 2021, 14, 2574-2583.	10.4	52
6	Oxygen-Defect Enhanced Anion Adsorption Energy Toward Super-Rate and Durable Cathode for Ni-Zn Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 167.	27.0	52
7	One-Step Synthesis of High-Coercivity $\gamma$ -FePtAg Nanoparticles: Effects of Ag on the Morphology and Chemical Ordering of FePt Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 2450-2454.	6.7	51
8	Loading Cd <sub>0.5</sub> Zn <sub>0.5</sub> S Quantum Dots onto Onion-Like Carbon Nanoparticles to Boost Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22560-22567.	8.0	49
9	Double-shelled ZnO/CdSe/CdTe nanocable arrays for photovoltaic applications: microstructure evolution and interfacial energy alignment. <i>Journal of Materials Chemistry</i> , 2012, 22, 12532.	6.7	47
10	Hollow Mesoporous Carbon Spheres for High Performance Symmetrical and Aqueous Zinc-Ion Hybrid Supercapacitor. <i>Frontiers in Chemistry</i> , 2020, 8, 663.	3.6	38
11	CoPt <sub>x</sub> -loaded Zn <sub>0.5</sub> Cd <sub>0.5</sub> S nanocomposites for enhanced visible light photocatalytic H <sub>2</sub> production. <i>International Journal of Energy Research</i> , 2016, 40, 1280-1286.	4.5	32
12	Mn-doped ZnO nanotubes: from facile solution synthesis to room temperature ferromagnetism. <i>CrystEngComm</i> , 2012, 14, 1330-1336.	2.6	27
13	Improved thermal stability, interface, and electrical properties of HfO <sub>2</sub> films prepared by pulsed laser deposition using <i>in situ</i> ionized nitrogen. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	22
14	Core/shell Cu/FePtCu nanoparticles with face-centered tetragonal texture: An active and stable low-Pt catalyst for enhanced oxygen reduction. <i>Nano Energy</i> , 2018, 54, 280-287.	16.0	22
15	Self-Powered CsPbBr <sub>3</sub> Perovskite Nanonet Photodetector with a Hollow Vertical Structure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7519-7525.	4.6	19
16	Contribution of Cation Addition to MnO <sub>2</sub> Nanosheets on Stable Co <sub>3</sub> O <sub>4</sub> Nanowires for Aqueous Zinc-Ion Battery. <i>Frontiers in Chemistry</i> , 2020, 8, 793.	3.6	18
17	High-rate transition metal-based cathode materials for battery-supercapacitor hybrid devices. <i>Nanoscale Advances</i> , 2021, 3, 5222-5239.	4.6	18
18	Colloidal Cd <sub>x</sub> Zn <sub>1-x</sub> S nanocrystals as efficient photocatalysts for H <sub>2</sub> production under visible-light irradiation. <i>RSC Advances</i> , 2019, 9, 4001-4007.	3.6	14

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19	ZnO/CdS nanorod arrays decorated by layered double hydroxides for efficient solar water oxidation. International Journal of Energy Research, 2017, 41, 1781-1789.	4.5	10
20	Investigation on the Thermal Conductivity of Mineral Oil-Based Alumina/Aluminum Nitride Nanofluids. Materials, 2019, 12, 4217.	2.9	8
21	Growth and magnetic properties of single crystalline Ni nanowire arrays prepared by pulse DC electrodeposition. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1244-1248.	5.1	6
22	Effects of annealing temperature and time on microstructure and magnetic properties of Pr-Co thin films. Rare Metals, 2012, 31, 121-124.	7.1	6
23	Structural and compositional evolution of FePt nanocubes in organometallic synthesis. Nanoscale Research Letters, 2014, 9, 615.	5.7	6
24	Direct one-pot synthesis of L1 <sub>0</sub> FePtAg nanoparticles with uniform and very small particle sizes. Journal of Materials Chemistry C, 2017, 5, 5316-5322.	5.5	6
25	Structural, Magnetic Properties, and Hall Carrier Concentrations of (Co, Cu):ZnO Thin Films—The Role of Cu Ions and Annealing in Hydrogen. Journal of the American Ceramic Society, 2012, 95, 2266-2271.	3.8	4
26	Improved uniformity and threshold voltage in NbOx-ZrO2 selectors. Applied Physics Letters, 2021, 119, .	3.3	3
27	Structure and size control of FePtCu nanocatalysts for high performance hydrogen evolution reaction. Sustainable Energy and Fuels, 2020, 4, 2727-2733.	4.9	1