

# Hemin Zhang

## List of Publications by Year in descending order

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34  
papers

1,680  
citations

279701

23  
h-index

377752

34  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic degradation of organic pollutants with Ag decorated free-standing TiO <sub>2</sub> nanotube arrays and interface electrochemical response. <i>Journal of Materials Chemistry</i> , 2011, 21, 475-480.	6.7	168
2	Defect-Mediated Formation of Ag Cluster-Doped TiO <sub>2</sub> Nanoparticles for Efficient Photodegradation of Pentachlorophenol. <i>Langmuir</i> , 2012, 28, 3938-3944.	1.6	152
3	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. <i>Nature Communications</i> , 2020, 11, 4622.	5.8	133
4	The formation of onion-like carbon-encapsulated cobalt carbide core/shell nanoparticles by the laser ablation of metallic cobalt in acetone. <i>Carbon</i> , 2013, 55, 108-115.	5.4	119
5	A Handheld Inertial Pedestrian Navigation System With Accurate Step Modes and Device Poses Recognition. <i>IEEE Sensors Journal</i> , 2015, 15, 1421-1429.	2.4	107
6	A High-Sensitivity Micromechanical Electrometer Based on Mode Localization of Two Degree-of-Freedom Weakly Coupled Resonators. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 937-946.	1.7	96
7	Three Birds, One Stone Strategy for Hybrid Microwave Synthesis of Ta and Sn Codoped Fe <sub>2</sub> O <sub>3</sub> @FeTaO <sub>4</sub> Nanorods for Photoelectrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1805737.	7.8	79
8	General Strategy for Doping Impurities (Ge, Si, Mn, Sn, Ti) in Hematite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4986-4992.	1.5	75
9	A general strategy toward transition metal carbide/carbon core/shell nanospheres and their application for supercapacitor electrode. <i>Carbon</i> , 2016, 100, 590-599.	5.4	75
10	Single Phase Mn <sub>3</sub> O <sub>4</sub> Nanoparticles Obtained by Pulsed Laser Ablation in Liquid and Their Application in Rapid Removal of Trace Pentachlorophenol. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12524-12528.	1.5	65
11	A Few Atomic FeNbO <sub>4</sub> Overlayers on Hematite Nanorods: Microwave-Induced High Temperature Phase for Efficient Photoelectrochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 1289-1297.	5.5	58
12	Activating the surface and bulk of hematite photoanodes to improve solar water splitting. <i>Chemical Science</i> , 2019, 10, 10436-10444.	3.7	57
13	Zinc stannate nanocubes and nanourchins with high photocatalytic activity for methyl orange and 2,5-DCP degradation. <i>Journal of Materials Chemistry</i> , 2012, 22, 17210.	6.7	54
14	Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity. <i>Advanced Functional Materials</i> , 2017, 27, 1702428.	7.8	52
15	Reactive and photocatalytic degradation of various water contaminants by laser ablation-derived SnOx nanoparticles in liquid. <i>Journal of Materials Chemistry</i> , 2011, 21, 18242.	6.7	50
16	Ionic organic cage-encapsulating phase-transferable metal clusters. <i>Chemical Science</i> , 2019, 10, 1450-1456.	3.7	42
17	Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22109-22116.	7.2	37
18	Silicon-doped hematite nanosheets with superlattice structure. <i>Chemical Communications</i> , 2011, 47, 8040.	2.2	34

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19	Organization of Mn <sub>3</sub> O <sub>4</sub> nanoparticles into $\hat{\Gamma}^3$ -MnOOH nanowires via hydrothermal treatment of the colloids induced by laser ablation in water. <i>CrystEngComm</i> , 2011, 13, 1063-1066.	1.3	31
20	Core-shell TaO@Ta <sub>2</sub> O <sub>5</sub> structured nanoparticles: laser ablation synthesis in liquid, structure and photocatalytic property. <i>CrystEngComm</i> , 2012, 14, 3236.	1.3	27
21	Hybrid Microwave Annealing Synthesizes Highly Crystalline Nanostructures for (Photo)electrocatalytic Water Splitting. <i>Accounts of Chemical Research</i> , 2019, 52, 3132-3142.	7.6	27
22	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
23	Precisely-controlled, a few layers of iron titanate inverse opal structure for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , 2019, 62, 20-29.	8.2	24
24	Synthesis of Mn-doped $\hat{\Gamma}^{\pm}$ -Ni(OH) <sub>2</sub> nanosheets assisted by liquid-phase laser ablation and their electrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5684.	1.3	23
25	Size-Controlled AgI/Ag Heteronanowires in Highly Ordered Alumina Membranes: Superionic Phase Stabilization and Conductivity. <i>Nano Letters</i> , 2015, 15, 5161-5167.	4.5	22
26	Hydrothermal treatment of colloids induced via liquid-phase laser ablation: a new approach for hierarchical titanate nanostructures with enhanced photodegradation performance. <i>CrystEngComm</i> , 2011, 13, 4676.	1.3	12
27	An <i>in situ</i> fluorine and <i>ex situ</i> titanium two-step co-doping strategy for efficient solar water splitting by hematite photoanodes. <i>Nanoscale Advances</i> , 2022, 4, 1659-1667.	2.2	9
28	Monodispersed carbon nanodots spontaneously separated from combustion soot with excitation-independent photoluminescence. <i>RSC Advances</i> , 2016, 6, 8456-8460.	1.7	8
29	Water Splitting: Engineering Highly Ordered Iron Titanate Nanotube Array Photoanodes for Enhanced Solar Water Splitting Activity ( <i>Adv. Funct. Mater.</i> 35/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	7
30	Study on growth of coarse grains of diamond with high quality under HPHT. <i>Science Bulletin</i> , 2009, 54, 163-167.	1.7	6
31	HPHT Synthesis of Micron Grade Boron-Doped Diamond Single Crystal in Fe-Ni-C-B Systems. <i>Chinese Physics Letters</i> , 2008, 25, 2667-2669.	1.3	2
32	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
33	HPHT Synthesis of Different Shape Coarse-Grain Diamond Single Crystals. <i>Chinese Physics Letters</i> , 2009, 26, 048102.	1.3	1
34	Healing Ion-Implanted Semiconductors by Hybrid Microwave Annealing: Activation of Nitrogen-Implanted TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3878-3885.	2.1	1