

Hemin Zhang

List of Publications by Year in descending order

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papers

1,680
citations

279701

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h-index

377752

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docs citations

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times ranked

2449
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
3	Photoelectrochemical Nitrate Reduction to Ammonia on Ordered Silicon Nanowire Array Photocathodes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
4	Healing Ion-Implanted Semiconductors by Hybrid Microwave Annealing: Activation of Nitrogen-Implanted TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3878-3885.	2.1	1
5	Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22109-22116.	7.2	37
6	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
7	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
8	A Few Atomic FeNbO ₄ 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
9	Ionic organic cage-encapsulating phase-transferable metal clusters. <i>Chemical Science</i> , 2019, 10, 1450-1456.	3.7	42
10	Three Birds, One Stone Strategy for Hybrid Microwave Synthesis of Ta and Sn Codoped Fe ₂ O ₃ @FeTaO ₄ Nanorods for Photoelectrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1805737.	7.8	79
11	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
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	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
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	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
16	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
17	Monodispersed carbon nanodots spontaneously separated from combustion soot with excitation-independent photoluminescence. <i>RSC Advances</i> , 2016, 6, 8456-8460.	1.7	8
18	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

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19	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
20	Synthesis of Mn-doped $\text{Ni}(\text{OH})_2$ nanosheets assisted by liquid-phase laser ablation and their electrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5684.	1.3	23
21	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
22	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
23	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
24	Core-shell $\text{TaO}_x/\text{Ta}_2\text{O}_5$ structured nanoparticles: laser ablation synthesis in liquid, structure and photocatalytic property. <i>CrystEngComm</i> , 2012, 14, 3236.	1.3	27
25	Defect-Mediated Formation of Ag Cluster-Doped TiO_2 Nanoparticles for Efficient Photodegradation of Pentachlorophenol. <i>Langmuir</i> , 2012, 28, 3938-3944.	1.6	152
26	Organization of Mn_3O_4 nanoparticles into $\beta\text{-MnOOH}$ nanowires via hydrothermal treatment of the colloids induced by laser ablation in water. <i>CrystEngComm</i> , 2011, 13, 1063-1066.	1.3	31
27	Reactive and photocatalytic degradation of various water contaminants by laser ablation-derived SnO_x nanoparticles in liquid. <i>Journal of Materials Chemistry</i> , 2011, 21, 18242.	6.7	50
28	Silicon-doped hematite nanosheets with superlattice structure. <i>Chemical Communications</i> , 2011, 47, 8040.	2.2	34
29	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
30	Photocatalytic degradation of organic pollutants with Ag decorated free-standing TiO_2 nanotube arrays and interface electrochemical response. <i>Journal of Materials Chemistry</i> , 2011, 21, 475-480.	6.7	168
31	Single Phase Mn_3O_4 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
32	HPHT Synthesis of Different Shape Coarse-Grain Diamond Single Crystals. <i>Chinese Physics Letters</i> , 2009, 26, 048102.	1.3	1
33	Study on growth of coarse grains of diamond with high quality under HPHT. <i>Science Bulletin</i> , 2009, 54, 163-167.	1.7	6
34	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