Peng Zhang

List of Publications by Year in Descending Order

46 papers	5,834 citations	36 h-index	46 g-index
46 ext. papers	6,675 ext. citations	14 avg, IF	6.5 L-index

#	Paper	IF	Citations
46	Unraveling the rate-limiting step of two-electron transfer electrochemical reduction of carbon dioxide.. *Nature Communications*, **2022**, 13, 803	17.4	8
45	Performance Prediction of Multiple Photoanodes Systems for Unbiased Photoelectrochemical Water Splitting **2021**, 3, 939-946		2
44	Fabrication of Heterostructured Fe2TiO5TiO2 Nanocages with Enhanced Photoelectrochemical Performance for Solar Energy Conversion. *Angewandte Chemie*, **2020**, 132, 8205-8209	3.6	21
43	Fabrication of Heterostructured Fe TiO -TiO Nanocages with Enhanced Photoelectrochemical Performance for Solar Energy Conversion. *Angewandte Chemie - International Edition*, **2020**, 59, 8128-8132	16.4	39
42	Nitrogen-Doped Cobalt Pyrite Yolk-Shell Hollow Spheres for Long-Life Rechargeable Zn-Air Batteries. *Advanced Science*, **2020**, 7, 2001178	13.6	103
41	Fabrication of CdS Frame-in-Cage Particles for Efficient Photocatalytic Hydrogen Generation under Visible-Light Irradiation. *Advanced Materials*, **2020**, 32, e2004561	24	53
40	Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion. *Advanced Materials*, **2019**, 31, e1900281	24	191
39	Construction of CoO/Co-Cu-S Hierarchical Tubular Heterostructures for Hybrid Supercapacitors. *Angewandte Chemie - International Edition*, **2019**, 58, 15441-15447	16.4	217
38	Construction of Hierarchical Co-Fe Oxyphosphide Microtubes for Electrocatalytic Overall Water Splitting. *Advanced Science*, **2019**, 6, 1900576	13.6	155
37	Fabrication of CdS hierarchical multi-cavity hollow particles for efficient visible light CO2 reduction. *Energy and Environmental Science*, **2019**, 12, 164-168	35.4	156
36	Ultrasmall MoO Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1804883	24	82
35	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. *Science Advances*, **2018**, 4, eaao6657	14.3	344
34	Facile Synthesis of Multi-shelled ZnS-CdS Cages with Enhanced Photoelectrochemical Performance for Solar Energy Conversion. *CheM*, **2018**, 4, 162-173	16.2	170
33	Current Mechanistic Understanding of Surface Reactions over Water-Splitting Photocatalysts. *CheM*, **2018**, 4, 223-245	16.2	68
32	Simple Doping, Great Deal: Regulation of Lattice Oxygen for Water Splitting. *CheM*, **2018**, 4, 2739-2741	16.2	5
31	Construction of Heterostructured Fe O -TiO Microdumbbells for Photoelectrochemical Water Oxidation. *Angewandte Chemie - International Edition*, **2018**, 57, 15076-15080	16.4	97
30	Formation of Double-Shelled Zinc-Cobalt Sulfide Dodecahedral Cages from Bimetallic Zeolitic Imidazolate Frameworks for Hybrid Supercapacitors. *Angewandte Chemie - International Edition*, **2017**, 56, 7141-7145	16.4	326

29	Synergistic Cocatalytic Effect of Carbon Nanodots and Co3 O4 Nanoclusters for the Photoelectrochemical Water Oxidation on Hematite. *Angewandte Chemie - International Edition*, **2016**, 55, 5851-5	16.4	153
28	Passivation of surface states by ALD-grown TiO2 overlayers on Ta3N5 anodes for photoelectrochemical water oxidation. *Chemical Communications*, **2016**, 52, 8806-9	5.8	37
27	Self-Assembly of Shaped Nanoparticles into Free-Standing 2D and 3D Superlattices. *Small*, **2016**, 12, 499-505	11	19
26	Stable Aqueous Photoelectrochemical CO2 Reduction by a Cu2 O Dark Cathode with Improved Selectivity for Carbonaceous Products. *Angewandte Chemie - International Edition*, **2016**, 55, 8840-5	16.4	135
25	Spatial separation of oxidation and reduction co-catalysts for efficient charge separation: Pt@TiO@MnO hollow spheres for photocatalytic reactions. *Chemical Science*, **2016**, 7, 890-895	9.4	111
24	Effective Charge Carrier Utilization in Photocatalytic Conversions. *Accounts of Chemical Research*, **2016**, 49, 911-21	24.3	200
23	Hollow spherical titanium dioxide nanoparticles for energy and environmental applications. *Particuology*, **2015**, 22, 13-23	2.8	21
22	Enhanced Surface Reaction Kinetics and Charge Separation of p-n Heterojunction Co3O4/BiVO4 Photoanodes. *Journal of the American Chemical Society*, **2015**, 137, 8356-9	16.4	611
21	Monoclinic WO3 nanomultilayers with preferentially exposed (002) facets for photoelectrochemical water splitting. *Nano Energy*, **2015**, 11, 189-195	17.1	128
20	Au nanoparticle sensitized ZnO nanopencil arrays for photoelectrochemical water splitting. *Nanoscale*, **2015**, 7, 77-81	7.7	115
19	Mechanistic Understanding of the Plasmonic Enhancement for Solar Water Splitting. *Advanced Materials*, **2015**, 27, 5328-42	24	301
18	Bridging the transport pathway of charge carriers in a Ta3N5 nanotube array photoanode for solar water splitting. *Nanoscale*, **2015**, 7, 13153-8	7.7	41
17	Gold Nanorod@TiO2 Yolk-Shell Nanostructures for Visible-Light-Driven Photocatalytic Oxidation of Benzyl Alcohol. *Small*, **2015**, 11, 1892-9	11	92
16	Monoclinic porous BiVO4 networks decorated by discrete g-C3N4 nano-islands with tunable coverage for highly efficient photocatalysis. *Small*, **2014**, 10, 2783-90, 2741	11	187
15	Facile synthesis of ZnO nanopencil arrays for photoelectrochemical water splitting. *Nano Energy*, **2014**, 7, 143-150	17.1	66
14	Controllable synthesis of nanotube-type graphitic C3N4 and their visible-light photocatalytic and fluorescent properties. *Journal of Materials Chemistry A*, **2014**, 2, 2885	13	223
13	Reduced Graphene Oxide (rGO)/BiVO4 Composites with Maximized Interfacial Coupling for Visible Lght Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2253-2258	8.3	140
12	Tantalum-based semiconductors for solar water splitting. *Chemical Society Reviews*, **2014**, 43, 4395-422	58.5	360

11	Ordering of Gold Nanorods in Confined Spaces by Directed Assembly. *Macromolecules*, **2013**, 46, 2241-2248	5.8	69
10	Dendritic Au/TiO_2 nanorod arrays for visible-light driven photoelectrochemical water splitting. *Nanoscale*, **2013**, 5, 9001-9	7.7	211
9	Selective deposition of Ag_3PO_4 on monoclinic $BiVO_4$(040) for highly efficient photocatalysis. *Small*, **2013**, 9, 3951-6, 3950	11	200
8	Mesoporous anatase TiO2 nanocups with plasmonic metal decoration for highly active visible-light photocatalysis. *Chemical Communications*, **2013**, 49, 5817-9	5.8	96
7	Near-infrared light-responsive vesicles of Au nanoflowers. *Chemical Communications*, **2013**, 49, 576-8	5.8	53
6	Ultrasound assisted interfacial synthesis of gold nanocones. *Chemical Communications*, **2013**, 49, 987-9	5.8	27
5	Asymmetric organic/metal(oxide) hybrid nanoparticles: synthesis and applications. *Nanoscale*, **2013**, 5, 5151-66	7.7	42
4	Superior reactivity of skeletal Ni-based catalysts for low-temperature steam reforming to produce CO-free hydrogen. *Physical Chemistry Chemical Physics*, **2012**, 14, 3295-8	3.6	31
3	On the origin of reactivity of steam reforming of ethylene glycol on supported Ni catalysts. *Physical Chemistry Chemical Physics*, **2012**, 14, 4066-9	3.6	35
2	A general approach to synthesize asymmetric hybrid nanoparticles by interfacial reactions. *Journal of the American Chemical Society*, **2012**, 134, 3639-42	16.4	66
1	Facile synthesis of functional Au nanopatches and nanocups. *Chemical Communications*, **2012**, 48, 7344-6	5.8	27