Bing-Xin Zhou

List of Publications by Citations

30 papers	972 citations	17 h-index	31 g-index
32 ext. papers	1,255 ext. citations	7 avg, IF	4.57 L-index

#	Paper	IF	Citations
30	Two-Dimensional MoS2-Graphene-Based Multilayer van der Waals Heterostructures: Enhanced Charge Transfer and Optical Absorption, and Electric-Field Tunable Dirac Point and Band Gap. *Chemistry of Materials*, **2017**, 29, 5504-5512	9.6	99
29	Doping-induced enhancement of crystallinity in polymeric carbon nitride nanosheets to improve their visible-light photocatalytic activity. *Nanoscale*, **2019**, 11, 6876-6885	7.7	93
28	Construction of g-C 3 N 4 /CeO 2 /ZnO ternary photocatalysts with enhanced photocatalytic performance. *Journal of Physics and Chemistry of Solids*, **2017**, 106, 1-9	3.9	83
27	Facile in situ construction of mediator-free direct Z-scheme g-C3N4/CeO2 heterojunctions with highly efficient photocatalytic activity. *Journal Physics D: Applied Physics*, **2018**, 51, 275302	3	80
26	Dimensional transformation and morphological control of graphitic carbon nitride from water-based supramolecular assembly for photocatalytic hydrogen evolution: from 3D to 2D and 1D nanostructures. *Applied Catalysis B: Environmental*, **2019**, 254, 321-328	21.8	76
25	Dual role of monolayer MoS2 in enhanced photocatalytic performance of hybrid MoS2/SnO2 nanocomposite. *Journal of Applied Physics*, **2016**, 119, 205704	2.5	49
24	Type-II/type-II band alignment to boost spatial charge separation: a case study of g-CN quantum dots/a-TiO/r-TiO for highly efficient photocatalytic hydrogen and oxygen evolution. *Nanoscale*, **2020**, 12, 6037-6046	7.7	48
23	Doping-Induced Hydrogen-Bond Engineering in Polymeric Carbon Nitride To Significantly Boost the Photocatalytic H Evolution Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 17341-17349	9.5	46
22	Generalized Synthetic Strategy for Amorphous Transition Metal Oxides-Based 2D Heterojunctions with Superb Photocatalytic Hydrogen and Oxygen Evolution. *Advanced Functional Materials*, **2021**, 31, 2009230	15.6	45
21	Strategy to boost catalytic activity of polymeric carbon nitride: synergistic effect of controllable in situ surface engineering and morphology. *Nanoscale*, **2019**, 11, 16393-16405	7.7	33
20	Origin of enhanced photocatalytic activity of F-doped CeO2 nanocubes. *Applied Surface Science*, **2016**, 370, 427-432	6.7	32
19	Facile ion-exchange synthesis of mesoporous Bi2S3/ZnS nanoplate with high adsorption capability and photocatalytic activity. *Journal of Colloid and Interface Science*, **2016**, 464, 103-9	9.3	31
18	Facilein situsynthesis of wurtzite ZnS/ZnO core/shell heterostructure with highly efficient visible-light photocatalytic activity and photostability. *Journal Physics D: Applied Physics*, **2018**, 51, 075501	3	28
17	Hydroxy-carbonate-assisted synthesis of high porous graphitic carbon nitride with broken of hydrogen bonds as a highly efficient visible-light-driven photocatalyst. *Journal Physics D: Applied Physics*, **2019**, 52, 105502	3	26
16	Interfacial charge modulation: carbon quantum dot implanted carbon nitride double-deck nanoframes for robust visible-light photocatalytic tetracycline degradation. *Nanoscale*, **2020**, 12, 3135-3145	7.7	24
15	Tuning near-gap electronic structure, interface charge transfer and visible light response of hybrid doped graphene and Ag3PO4 composite: Dopant effects. *Scientific Reports*, **2016**, 6, 22267	4.9	19
14	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. *Journal of Physical Chemistry C*, **2018**, 122, 28065-28074	3.8	17

List of Publications

13	Sulfur-Rich (NH)MoS as a Highly Reversible Anode for Sodium/Potassium-Ion Batteries. *ACS Nano*, **2020**, 14, 9626-9636	16.7	16
12	Hollow BCN microrods with hierarchical multichannel structure as a multifunctional material: Synergistic effects of structural topology and composition. *Carbon*, **2019**, 148, 231-240	10.4	15
11	Three-Dimensional Self-assembled Hairball-Like VS as High-Capacity Anodes for Sodium-Ion Batteries. *Nano-Micro Letters*, **2020**, 12, 39	19.5	15
10	Enhanced photocatalytic activity of hexagonal flake-like Bi2S3 / ZnS composites with a large percentage of reactive facets. *Journal Physics D: Applied Physics*, **2016**, 49, 305105	3	14
9	Morphology-controlled SnS2 nanostructures synthesized by refluxing method with high photocatalytic activity. *Materials Letters*, **2015**, 161, 480-483	3.3	13
8	Facile route to fabricate carbon-doped TiO2 nanoparticles and its mechanism of enhanced visible light photocatalytic activity. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	12
7	Self-catalytic VLS growth one dimensional layered GaSe nanobelts for high performance photodetectors. *Journal of Physics and Chemistry of Solids*, **2018**, 118, 186-191	3.9	11
6	The mechanism of enhanced photocatalytic activity of SnO2 through fullerene modification. *Current Applied Physics*, **2017**, 17, 1547-1556	2.6	11
5	Facile one-step in-situ synthesis of type-II CeO2/CeF3 composite with tunable morphology and photocatalytic activity. *Ceramics International*, **2016**, 42, 16374-16381	5.1	11
4	Mass production of ZnxCd1−xS nanoparticles with enhanced visible light photocatalytic activity. *Materials Letters*, **2015**, 158, 432-435	3.3	10
3	A host–guest self-assembly strategy to enhance π-electron densities in ultrathin porous carbon nitride nanocages toward highly efficient hydrogen evolution. *Chemical Engineering Journal*, **2022**, 430, 132880	14.7	7
2	In situ construction of hierarchical graphitic carbon nitride homojunction as robust bifunctional photoelectrocatalyst for overall water splitting. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 758-769	3.5	5
1	2D Amorphous CoO Incorporated g-C3N4 Nanotubes for Improved Photocatalytic Performance. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100254	2.5	2