Kai Zhang

List of Publications by Year
in descending order

20 papers	2,154 citations	516215 16 h-index	752256 20 g-index
20 all docs	20 docs citations	20 times ranked	3431 citing authors

#	Article	IF	Citations
1	Grapheneâ€Based Materials for Hydrogen Generation from Lightâ€Driven Water Splitting. Advanced Materials, 2013, 25, 3820-3839.	11.1	704
2	Metal sulphide semiconductors for photocatalytic hydrogen production. Catalysis Science and Technology, 2013, 3, 1672.	2.1	477
3	Efficient solar hydrogen production by photocatalytic water splitting: From fundamental study to pilot demonstration. International Journal of Hydrogen Energy, 2010, 35, 7087-7097.	3.8	273
4	Influence of Sr-doping on the photocatalytic activities of CdSâ€“ZnS solid solution photocatalysts. International Journal of Hydrogen Energy, 2010, 35, 2048-2057.	3.8	123
5	La,Al-Codoped SrTiO₃ as a Photocatalyst in Overall Water Splitting: Significant Surface Engineering Effects on Defect Engineering. ACS Catalysis, 2021, 11, 11429-11439.	5.5	83
6	Sacrificial Interlayer for Promoting Charge Transport in Hematite Photoanode. ACS Applied Materials & Interfaces, 2017, 9, 42723-42733.	4.0	61
7	Polarization-induced saw-tooth-like potential distribution in zincblende-wurtzite superlattice for efficient charge separation. Nano Energy, 2017, 41, 101-108.	8.2	53
8	TiO₂ Single Crystal with Fourâ€Truncatedâ€Bipyramid Morphology as an Efficient Photocatalyst for Hydrogen Production. Small, 2013, 9, 2452-2459.	5.2	50
9	Alkaline earth metal as a novel dopant for chalcogenide solid solution: Improvement of photocatalytic efficiency of Cd1â^'xZnxS by barium surface doping. International Journal of Hydrogen Energy, 2011, 36, 9469-9478.	3.8	49
10	Synthesis of CdS/CNTs photocatalysts and study of hydrogen production by photocatalytic water splitting. International Journal of Hydrogen Energy, 2013, 38, 13091-13096.	3.8	49
11	A Photoelectrochemical Investigation on the Synergetic Effect between CdS and Reduced Graphene Oxide for Solarâ€Energy Conversion. Chemistry - an Asian Journal, 2013, 8, 2395-2400.	1.7	45
12	SrS/CdS composite powder as a novel photocatalyst for hydrogen production under visible light irradiation. International Journal of Hydrogen Energy, 2010, 35, 7080-7086.	3.8	39
13	Hierarchical Hollow Nanocages Derived from Polymer/Cobalt Complexes for Electrochemical Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 10912-10919.	3.2	31
14	Sonocatalytic degradation of organic pollutant by SnO 2 /MWCNT nanocomposite. Diamond and Related Materials, 2017, 76, 177-183.	1.8	27
15	Inverted perovskite/silicon V-shaped tandem solar cells with 27.6% efficiency via self-assembled monolayer-modified nickel oxide layer. Journal of Materials Chemistry A, 2022, 10, 7251-7262.	5.2	24
16	Functionalized nanostructures for enhanced photocatalytic performance under solar light. Beilstein Journal of Nanotechnology, 2014, 5, 994-1004.	1.5	22
17	Atomic arrangement matters: band-gap variation in composition-tunable (Ga1â€“xZnx)(N1â€“xOx) nanowires. Matter, 2021, 4, 1054-1071.	5.0	14
18	Gel-assisted synthesis of CIZS for visible-light photocatalytic reduction reaction. Chemical Engineering Journal, 2022, 429, 132364.	6.6	14

#	Article	IF	Citations
19	Selective Growth of Stacking Fault Free âŸ¨100âŸ© Nanowires on a Polycrystalline Substrate for Energy Conversion Application. ACS Applied Materials & Interfaces, 2020, 12, 17676-17685.	4.0	8
20	Nickel doping as an effective strategy to promote separation of photogenerated charge carriers for efficient solar-fuel production. Catalysis Science and Technology, 2021, 11, 4012-4015.	2.1	8