Bin Liu

List of Publications by Year
in descending order

15 papers	506 citations	759233 12 h-index	1058476 14 g-index
15 all docs	15 docs citations	15 times ranked	724 citing authors

#	Article	IF	Citations
1	Enhanced visible-light photocatalytic activity of hydrogenated Fe3O4 nanooctahedrons with {111} polar facets in degradation of Basic Fuchsin and the photocatalytic mechanism. Journal of Materials Science: Materials in Electronics, 2022, 33, 13095-13109.	2.2	1
2	Photogenerated Charge Separation between Polar Crystal Facets Under a Spontaneous Electric Field. Advanced Optical Materials, 2021, 9, 2001898.	7.3	7
3	Hydrogenated nanotubes/nanowires assembled from TiO₂ nanoflakes with exposed {111} facets: excellent photo-catalytic CO₂ reduction activity and charge separation mechanism between (111) and (1ì„1ì„1ì„) polar surfaces. Journal of Materials Chemistry A, 2019, 7, 14761-14775.	10.3	31
4	Effect of TC(002) on the Output Current of a ZnO Thin-Film Nanogenerator and a New Piezoelectricity Mechanism at the Atomic Level. ACS Applied Materials & Interfaces, 2019, 11, 12656-12665.	8.0	27
5	Enhanced Visible-Light Photocatalytic H₂ Evolution in Cu₂O/Cu₂Se Multilayer Heterostructure Nanowires Having {111} Facets and Physical Mechanism. Inorganic Chemistry, 2018, 57, 8019-8027.	4.0	23
6	Visible-light photocatalysis in CdTe nanoflakes with exposed {111} facets and charge separation between polar CdTe {111}surfaces. Applied Catalysis B: Environmental, 2017, 208, 94-103.	20.2	15
7	The photovoltaic effect in a [001] orientated ZnO thin film and its physical mechanism. RSC Advances, 2017, 7, 9596-9604.	3.6	10
8	Charge Separation between Polar {111} Surfaces of CoO Octahedrons and Their Enhanced Visible-Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2015, 7, 6109-6117.	8.0	56
9	Superior photocatalytic activities of NiO octahedrons with loaded AgCl particles and charge separation between polar NiO {111} surfaces. Applied Catalysis B: Environmental, 2015, 172-173, 165-173.	20.2	41
10	Visible-light photocatalysis in Cu₂Se nanowires with exposed {111} facets and charge separation between (111) and (1ì„1ì„1ì„) polar surfaces. Physical Chemistry Chemical Physics, 2015, 17, 13280-13289.	2.8	42
11	Superior photocatalytic activity of porous wurtzite ZnO nanosheets with exposed {0 0 1} facets and a charge separation model between polar (0 0 1) and (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td (xmlns:mml="	12.7	48
12	Charge separation between wurtzite ZnO polar {0 0 1} surfaces and their enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2015, 163, 189-197.	20.2	102
13	InOCl nanosheets with exposed {001} facets: Synthesis, electronic structure and surprisingly high photocatalytic activity. Applied Catalysis B: Environmental, 2014, 152-153, 390-396.	20.2	13
14	Synthesis and enhanced photocatalytic activity of monodisperse flowerlike nanoarchitectures assembled from CdS nanoflakes with exposed {001} facets. Materials Research Bulletin, 2012, 47, 3070-3077.	5.2	27
15	Synthesis of hollow microspheres constructed with Î±-Fe2O3 nanorods and their photocatalytic and magnetic properties. Journal of Alloys and Compounds, 2009, 477, 90-99.	5.5	63