

Bin Liu

List of Publications by Year in descending order

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15
papers

506
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759233

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1058476

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15
docs citations

15
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Synthesis of hollow microspheres constructed with \pm -Fe ₂ O ₃ nanorods and their photocatalytic and magnetic properties. Journal of Alloys and Compounds, 2009, 477, 90-99.	5.5	63
3	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
4	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 ($\sqrt{3}$ 0 0) surfaces. Applied Catalysis B: Environmental, 2015, 163, 189-197.	12.7	48
5	Visible-light photocatalysis in Cu ₂ Se nanowires with exposed {111} facets and charge separation between (111) and (1 $\bar{1}$,1 $\bar{1}$,1 $\bar{1}$) polar surfaces. Physical Chemistry Chemical Physics, 2015, 17, 13280-13289.	2.8	42
6	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
7	Hydrogenated nanotubes/nanowires assembled from TiO ₂ nanoflakes with exposed {111} facets: excellent photo-catalytic CO ₂ reduction activity and charge separation mechanism between (111) and (1 $\bar{1}$,1 $\bar{1}$,1 $\bar{1}$) polar surfaces. Journal of Materials Chemistry A, 2019, 7, 14761-14775.	10.3	31
8	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
9	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
10	Enhanced Visible-Light Photocatalytic H ₂ Evolution in Cu ₂ O/Cu ₂ Se Multilayer Heterostructure Nanowires Having {111} Facets and Physical Mechanism. Inorganic Chemistry, 2018, 57, 8019-8027.	4.0	23
11	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
12	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
13	The photovoltaic effect in a [001] orientated ZnO thin film and its physical mechanism. RSC Advances, 2017, 7, 9596-9604.	3.6	10
14	Photogenerated Charge Separation between Polar Crystal Facets Under a Spontaneous Electric Field. Advanced Optical Materials, 2021, 9, 2001898.	7.3	7
15	Enhanced visible-light photocatalytic activity of hydrogenated Fe ₃ O ₄ 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