

Xinggang Hou

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

472
citations

840776

11
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Ag ion-implanted TiO ₂ thin films for antibacterial application and photocatalytic performance. <i>Journal of Hazardous Materials</i> , 2015, 299, 59-66.	12.4	93
2	G-C ₃ N ₄ -based films: A rising star for photoelectrochemical water splitting. <i>Sustainable Materials and Technologies</i> , 2019, 19, e00089.	3.3	44
3	The antibacterial and hydrophilic properties of silver-doped TiO ₂ thin films using sol-gel method. <i>Applied Surface Science</i> , 2012, 258, 8241-8246.	6.1	43
4	Photo-rechargeable batteries and supercapacitors: Critical roles of carbon-based functional materials. <i>Journal of Energy Storage</i> , 2021, 3, 225-252.		41
5	Calcination of reduced graphene oxide decorated TiO ₂ composites for recovery and reuse in photocatalytic applications. <i>Ceramics International</i> , 2017, 43, 1150-1159.	4.8	39
6	Cu-Ion-Implanted and Polymeric Carbon Nitride-Decorated TiO ₂ Nanotube Array for Unassisted Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44184-44194.	8.0	32
7	Simultaneously efficient light absorption and charge transport of CdS/TiO ₂ nanotube array toward improved photoelectrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30899-30909.	7.1	30
8	Antibacterial ability of Ag-TiO ₂ nanotubes prepared by ion implantation and anodic oxidation. <i>Materials Letters</i> , 2015, 161, 309-312.	2.6	23
9	Enhanced photoelectrocatalytic degradation of organic pollutants using TiO ₂ nanotubes implanted with nitrogen ions. <i>Journal of Materials Science</i> , 2020, 55, 5843-5860.	3.7	18
10	First-principles calculations on implanted TiO ₂ by 3d transition metal ions. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 838-842.	0.2	17
11	Hydrophilic, antibacterial and photocatalytic properties of TiO ₂ composite films modified by the methods of N ⁺ ion implantation and doping of CNTs under visible light irradiation. <i>Surface and Coatings Technology</i> , 2019, 365, 123-128.	4.8	16
12	Novel integrated strategies toward efficient and stable unassisted photoelectrochemical water splitting. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00209.	3.3	14
13	Photoelectrical properties of nitrogen doped TiO ₂ nanotubes by anodic oxidation of N ⁺ implanted Ti foils. <i>Materials Letters</i> , 2014, 124, 101-104.	2.6	11
14	Studies on photocatalytic activity of Ag/TiO ₂ films. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 402-407.	0.4	9
15	Enhanced superhydrophilicity of N ⁺ implanted multiwalled carbon nanotubes-TiO ₂ composite thin films. <i>Vacuum</i> , 2014, 100, 74-77.	3.5	9
16	Cytocompatibility and antibacterial property of N ⁺ ions implanted TiO ₂ nanotubes. <i>Surface and Coatings Technology</i> , 2019, 359, 468-475.	4.8	8
17	Study of antibacterial, hydrophilic and nanomechanical properties of TiO _x films modified by Ag ⁺ beam implantation. <i>Surface and Coatings Technology</i> , 2013, 229, 71-75.	4.8	7
18	Photoelectrochemical nitrogen reduction: A step toward achieving sustainable ammonia synthesis. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1761-1773.	14.0	7

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19	THE LAPW CALCULATION OF ELECTRONIC STRUCTURE OF ANATASE TiO_2 DOPED WITH TRANSITION METAL ATOMS. Journal of Theoretical and Computational Chemistry, 2010, 09, 415-422.	1.8	3
20	Influence of V ⁺ -implantation on structural, chemical, optical and nanomechanical properties of TiO ₂ films. Vacuum, 2013, 89, 147-152.	3.5	3
21	Photocurrent enhancement on TiO ₂ nanotubes co-modified by N ⁺ implantation and combustion of graphene. Materials Letters, 2019, 238, 77-80.	2.6	3
22	Application of beam irradiation in preparation of visible light responsive TiO ₂ films. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 387-392.	0.4	1
23	Experimental and computational study of visible light-induced photocatalytic ability of nitrogen ions-implanted TiO ₂ nanotubes. Chinese Physics B, 2020, 29, 048501.	1.4	1