

Ranjith G Nair

List of Publications by Year in descending order

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papers

457
citations

687363

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21
docs citations

21
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409
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of type II heterojunction in ZnO-In ₂ O ₃ nanodiscs for enhanced visible-light photocatalysis through the synergy of effective charge carrier separation and charge transport. <i>Materials Chemistry and Physics</i> , 2021, 263, 124431.	4.0	61
2	Defect-induced visible-light-driven photocatalytic and photoelectrochemical performance of ZnO-CeO ₂ nanoheterojunctions. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157730.	5.5	54
3	Effect of aspect ratio on photocatalytic performance of hexagonal ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153277.	5.5	47
4	Hierarchical ZnO-TiO ₂ nanoheterojunction: A strategy driven approach to boost the photocatalytic performance through the synergy of improved surface area and interfacial charge transport. <i>Applied Surface Science</i> , 2020, 534, 147321.	6.1	46
5	Engineering of ZnO nanostructures for efficient solar photocatalysis. <i>Materials Letters</i> , 2018, 219, 76-80.	2.6	33
6	Non-hydrolytic synthesis of hierarchical TiO ₂ nanostructures using natural cellulosic materials as both oxygen donors and templates. <i>New Journal of Chemistry</i> , 2012, 36, 2196.	2.8	23
7	MWCNT decorated V-doped titania: An efficient visible active photocatalyst. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3511-3516.	5.5	23
8	Mn-doped ZnO: Role of morphological evolution on enhanced photocatalytic performance. <i>Energy Reports</i> , 2020, 6, 737-741.	5.1	20
9	Enhanced visible light photocatalytic disinfection of gram negative, pathogenic Escherichia coli bacteria with Ag/TiV oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 7-13.	5.0	19
10	Ag-modified ZnO nanorods and its dual application in visible light-driven photoelectrochemical water oxidation and photocatalytic dye degradation: A correlation between optical and electrochemical properties. <i>Advanced Powder Technology</i> , 2022, 33, 103434.	4.1	19
11	A critical review on prospects and challenges of metal-oxide embedded g-C ₃ N ₄ -based direct Z-scheme photocatalysts for water splitting and environmental remediation. <i>Applied Surface Science Advances</i> , 2022, 11, 100273.	6.8	18
12	Photocatalytic activity of predominantly rutile mixed phase Ag/TiV oxide nanoparticles under visible light irradiation. <i>Energy</i> , 2011, 36, 3342-3347.	8.8	15
13	Organic photovoltaic cells using MWCNTs. <i>New Carbon Materials</i> , 2017, 32, 27-34.	6.1	14
14	Shape selective flower-like ZnO nanostructures prepared via structure-directing reagent free methods for efficient photocatalytic performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115149.	3.5	13
15	Fabrication of In ₂ O ₃ functionalized ZnO based nanoheterojunction photoanode for improved DSSC performance through effective interfacial charge carrier separation. <i>Optical Materials</i> , 2021, 122, 111784.	3.6	12
16	Design improvement and performance evaluation of solar photocatalytic reactor for industrial effluent treatment. <i>Ecotoxicology and Environmental Safety</i> , 2016, 134, 301-307.	6.0	11
17	Investigation of the photoactivity of pristine and mixed phase N-doped titania under visible and solar irradiation. <i>Materials Characterization</i> , 2013, 83, 145-151.	4.4	8
18	Facile synthesis of thiol-stabilized Cd _{1-x} Te _x nanocrystals. <i>Physica B: Condensed Matter</i> , 2011, 406, 715-719.	2.7	7

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19	Effect of aspect ratio of c-axis oriented ZnO nanorods on photoelectrochemical performance and photoconversion efficiency. <i>Optical Materials</i> , 2021, 121, 111551.	3.6	6
20	Role of copper and silver modified titania photoanode on performance engineering of dye sensitized solar cells. <i>Materials Letters</i> , 2018, 221, 313-317.	2.6	4
21	Effect of anatase-rutile phase ratio of titania photoanode on photoelectrochemical performance and photoconversion efficiency. <i>Optical Materials</i> , 2022, 127, 112269.	3.6	4