Yu Hang Leung

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11181172/publications.pdf

Version: 2024-02-01

33	4,543	331670 21	454955 30
papers	citations	h-index	g-index

33	33	33	7593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Properties of ZnO Nanostructures. Small, 2006, 2, 944-961.	10.0	1,717
2	ZnO nanostructures: growth, properties and applications. Journal of Materials Chemistry, 2012, 22, 6526.	6.7	584
3	Mechanisms of Antibacterial Activity of MgO: Nonâ€ROS Mediated Toxicity of MgO Nanoparticles Towards Escherichia coli. Small, 2014, 10, 1171-1183.	10.0	418
4	Toxicity of Metal Oxide Nanoparticles: Mechanisms, Characterization, and Avoiding Experimental Artefacts. Small, 2015, 11, 26-44.	10.0	308
5	Strategies for improving the efficiency of semiconductor metal oxide photocatalysis. Materials Horizons, 2014, 1, 400.	12.2	296
6	Visible photoluminescence in ZnO tetrapod and multipod structures. Applied Physics Letters, 2004, 84, 2635-2637.	3.3	152
7	Gas-sensing properties of thick film based on ZnO nano-tetrapods. Chemical Physics Letters, 2005, 401, 426-429.	2.6	149
8	Native Defects in ZnO: Effect on Dye Adsorption and Photocatalytic Degradation. Journal of Physical Chemistry C, 2013, 117, 12218-12228.	3.1	133
9	Toxicity of ZnO and TiO2 to Escherichia coli cells. Scientific Reports, 2016, 6, 35243.	3.3	127
10	Influence of annealing on stimulated emission in ZnO nanorods. Applied Physics Letters, 2006, 89, 183112.	3.3	95
11	Effect of ZnO Nanoparticle Properties on Dye-Sensitized Solar Cell Performance. ACS Applied Materials & Interfaces, 2012, 4, 1254-1261.	8.0	92
12	Changing the shape of ZnO nanostructures by controlling Zn vapor release: from tetrapod to bone-like nanorods. Chemical Physics Letters, 2004, 385, 155-159.	2.6	71
13	Toxicity of CeO2 nanoparticles â€“ The effect of nanoparticle properties. Journal of Photochemistry and Photobiology B: Biology, 2015, 145, 48-59.	3.8	49
14	Physicochemical characteristics and toxicity of surface-modified zinc oxide nanoparticles to freshwater and marine microalgae. Scientific Reports, 2017, 7, 15909.	3.3	40
15	Stimulated Emission in ZnO Nanostructures:Â A Time-Resolved Study. Journal of Physical Chemistry B, 2005, 109, 19228-19233.	2.6	38
16	Antibacterial and photocatalytic activity of TiO2 and ZnO nanomaterials in phosphate buffer and saline solution. Applied Microbiology and Biotechnology, 2013, 97, 5565-5573.	3.6	38
17	Zinc oxide films and nanomaterials for photovoltaic applications. Physica Status Solidi - Rapid Research Letters, 2014, 8, 123-132.	2.4	37
18	Metal oxide nanoparticles with low toxicity. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 17-24.	3.8	30

#	Article	IF	Citations
19	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. Journal of Physical Chemistry C, 2014, 118, 22760-22767.	3.1	27
20	Is the effect of surface modifying molecules on antibacterial activity universal for a given material?. Nanoscale, 2014, 6, 10323-10331.	5.6	24
21	TiO2â€“carbon nanotube composites for visible photocatalysts â€“ Influence of TiO2 crystal structure. Current Applied Physics, 2013, 13, 1280-1287.	2.4	23
22	Effect of starting properties and annealing on photocatalytic activity of ZnO nanoparticles. Applied Surface Science, 2013, 283, 914-923.	6.1	17
23	Synthesis and properties of ZnO multipod structures. Journal of Crystal Growth, 2005, 274, 430-437.	1.5	13
24	Metalâ€Free and Metallated Polymers: Properties and Photovoltaic Performance. Macromolecular Chemistry and Physics, 2012, 213, 1300-1310.	2.2	12
25	Towards low temperature processed ZnO dye-sensitized solar cells. Applied Surface Science, 2015, 357, 2169-2175.	6.1	12
26	Annealing-Induced Antibacterial Activity in TiO₂ under Ambient Light. Journal of Physical Chemistry C, 2017, 121, 24060-24068.	3.1	12
27	The effect of different dopants on the performance of SnO₂â€based dyeâ€sensitized solar cells. Physica Status Solidi (B): Basic Research, 2015, 252, 553-557.	1.5	8
28	Non-catalytic synthesis of ZnO nanocolumns with different cross-sections. Journal of Crystal Growth, 2005, 284, 80-85.	1.5	7
29	Transmission electron microscopy artifacts in characterization of the nanomaterial-cell interactions. Applied Microbiology and Biotechnology, 2017, 101, 5469-5479.	3.6	6
30	ZnO nanostructures prepared from ZnO:CNT mixtures. , 2004, , .		4
31	Zinc oxide precursor treatment for improving dyeâ€sensitized solar cell efficiency. Physica Status Solidi (B): Basic Research, 2015, 252, 532-537.	1.5	4
32	Strategy for introducing antibacterial activity under ambient illumination in titania nanoparticles. , 2015, , .		0
33	Zinc oxide tetrapods as efficient photocatalysts for organic pollutant degradation. Proceedings of SPIE, 2015, , .	0.8	0