Yu Hang Leung

List of Publications by Year in descending order

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33 papers	4,543 citations	331259 21 h-index	454577 30 g-index
33 all docs	33 docs citations	33 times ranked	7593 citing authors

#	Article	IF	Citations
1	Transmission electron microscopy artifacts in characterization of the nanomaterial-cell interactions. Applied Microbiology and Biotechnology, 2017, 101, 5469-5479.	1.7	6
2	Annealing-Induced Antibacterial Activity in TiO₂ under Ambient Light. Journal of Physical Chemistry C, 2017, 121, 24060-24068.	1.5	12
3	Physicochemical characteristics and toxicity of surface-modified zinc oxide nanoparticles to freshwater and marine microalgae. Scientific Reports, 2017, 7, 15909.	1.6	40
4	Toxicity of ZnO and TiO2 to Escherichia coli cells. Scientific Reports, 2016, 6, 35243.	1.6	127
5	Zinc oxide precursor treatment for improving dyeâ€sensitized solar cell efficiency. Physica Status Solidi (B): Basic Research, 2015, 252, 532-537.	0.7	4
6	Strategy for introducing antibacterial activity under ambient illumination in titania nanoparticles. , 2015, , .		0
7	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.	0.7	8
8	Zinc oxide tetrapods as efficient photocatalysts for organic pollutant degradation. Proceedings of SPIE, 2015, , .	0.8	0
9	Metal oxide nanoparticles with low toxicity. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 17-24.	1.7	30
10	Toxicity of CeO2 nanoparticles â€“ The effect of nanoparticle properties. Journal of Photochemistry and Photobiology B: Biology, 2015, 145, 48-59.	1.7	49
11	Towards low temperature processed ZnO dye-sensitized solar cells. Applied Surface Science, 2015, 357, 2169-2175.	3.1	12
12	Toxicity of Metal Oxide Nanoparticles: Mechanisms, Characterization, and Avoiding Experimental Artefacts. Small, 2015, 11, 26-44.	5.2	308
13	Mechanisms of Antibacterial Activity of MgO: Nonâ€ROS Mediated Toxicity of MgO Nanoparticles Towards Escherichia coli. Small, 2014, 10, 1171-1183.	5.2	418
14	Zinc oxide films and nanomaterials for photovoltaic applications. Physica Status Solidi - Rapid Research Letters, 2014, 8, 123-132.	1.2	37
15	Is the effect of surface modifying molecules on antibacterial activity universal for a given material?. Nanoscale, 2014, 6, 10323-10331.	2.8	24
16	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. Journal of Physical Chemistry C, 2014, 118, 22760-22767.	1.5	27
17	Strategies for improving the efficiency of semiconductor metal oxide photocatalysis. Materials Horizons, 2014, 1, 400.	6.4	296
18	Effect of starting properties and annealing on photocatalytic activity of ZnO nanoparticles. Applied Surface Science, 2013, 283, 914-923.	3.1	17

#	Article	IF	Citations
19	Antibacterial and photocatalytic activity of TiO2 and ZnO nanomaterials in phosphate buffer and saline solution. Applied Microbiology and Biotechnology, 2013, 97, 5565-5573.	1.7	38
20	Native Defects in ZnO: Effect on Dye Adsorption and Photocatalytic Degradation. Journal of Physical Chemistry C, 2013, 117, 12218-12228.	1.5	133
21	TiO2â€“carbon nanotube composites for visible photocatalysts â€“ Influence of TiO2 crystal structure. Current Applied Physics, 2013, 13, 1280-1287.	1.1	23
22	ZnO nanostructures: growth, properties and applications. Journal of Materials Chemistry, 2012, 22, 6526.	6.7	584
23	Effect of ZnO Nanoparticle Properties on Dye-Sensitized Solar Cell Performance. ACS Applied Materials & Interfaces, 2012, 4, 1254-1261.	4.0	92
24	Metalâ€Free and Metallated Polymers: Properties and Photovoltaic Performance. Macromolecular Chemistry and Physics, 2012, 213, 1300-1310.	1.1	12
25	Optical Properties of ZnO Nanostructures. Small, 2006, 2, 944-961.	5.2	1,717
26	Influence of annealing on stimulated emission in ZnO nanorods. Applied Physics Letters, 2006, 89, 183112.	1.5	95
27	Synthesis and properties of ZnO multipod structures. Journal of Crystal Growth, 2005, 274, 430-437.	0.7	13
28	Non-catalytic synthesis of ZnO nanocolumns with different cross-sections. Journal of Crystal Growth, 2005, 284, 80-85.	0.7	7
29	Gas-sensing properties of thick film based on ZnO nano-tetrapods. Chemical Physics Letters, 2005, 401, 426-429.	1.2	149
30	Stimulated Emission in ZnO Nanostructures:Â A Time-Resolved Study. Journal of Physical Chemistry B, 2005, 109, 19228-19233.	1.2	38
31	Changing the shape of ZnO nanostructures by controlling Zn vapor release: from tetrapod to bone-like nanorods. Chemical Physics Letters, 2004, 385, 155-159.	1.2	71
32	Visible photoluminescence in ZnO tetrapod and multipod structures. Applied Physics Letters, 2004, 84, 2635-2637.	1.5	152
33	ZnO nanostructures prepared from ZnO:CNT mixtures. , 2004, , .		4