Amit Kumar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11787753/publications.pdf

Version: 2024-02-01

20 papers	2,585 citations	430874 18 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	3643 citing authors

#	Article	IF	Citations
1	PEGylated Nanoceria as Radical Scavenger with Tunable Redox Chemistry. Journal of the American Chemical Society, 2009, 131, 14144-14145.	13.7	302
2	Effects of cerium oxide nanoparticles on the growth of keratinocytes, fibroblasts and vascular endothelial cells in cutaneous wound healing. Biomaterials, 2013, 34, 2194-2201.	11.4	301
3	A phosphate-dependent shift in redox state of cerium oxide nanoparticles and its effects on catalytic properties. Biomaterials, 2011, 32, 6745-6753.	11.4	285
4	Luminescence Properties of Europium-Doped Cerium Oxide Nanoparticles: Role of Vacancy and Oxidation States. Langmuir, 2009, 25, 10998-11007.	3.5	254
5	The induction of angiogenesis by cerium oxide nanoparticles through the modulation of oxygen in intracellular environments. Biomaterials, 2012, 33, 7746-7755.	11.4	247
6	Cerium oxide nanoparticles scavenge nitric oxide radical (Ë™NO). Chemical Communications, 2012, 48, 4896.	4.1	222
7	Cellular Interaction and Toxicity Depend on Physicochemical Properties and Surface Modification of Redox-Active Nanomaterials. ACS Nano, 2013, 7, 4855-4868.	14.6	179
8	Unveiling the mechanism of uptake and sub-cellular distribution of cerium oxide nanoparticles. Molecular BioSystems, 2010, 6, 1813.	2.9	144
9	Understanding the toxicity of aggregated zero valent copper nanoparticles against Escherichia coli. Journal of Hazardous Materials, 2010, 180, 212-216.	12.4	96
10	Behavior of nanoceria in biologically-relevant environments. Environmental Science: Nano, 2014, 1, 516-532.	4.3	94
11	Antibacterial Activity of Polymer Coated Cerium Oxide Nanoparticles. PLoS ONE, 2012, 7, e47827.	2.5	91
12	Mitigation of endometriosis using regenerative cerium oxide nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 439-448.	3.3	84
13	Influence of iron and copper nanoparticle powder on the production of lignocellulose degrading enzymes in the fungus Trametes versicolor. Journal of Hazardous Materials, 2010, 178, 1141-1145.	12.4	72
14	A facile synthesis of PLGA encapsulated cerium oxide nanoparticles: release kinetics and biological activity. Nanoscale, 2012, 4, 2597.	5.6	48
15	Morphological Phase Diagram of Biocatalytically Active Ceria Nanostructures as a Function of Processing Variables and Their Properties. ChemPlusChem, 2013, 78, 1446-1455.	2.8	45
16	Mechanical properties of ceria nanorods and nanochains; the effect of dislocations, grain-boundaries and oriented attachment. Nanoscale, 2011, 3, 1823.	5.6	42
17	Hydrogen selective gas sensor in humid environment based on polymer coated nanostructured-doped tin oxide. Sensors and Actuators B: Chemical, 2011, 155, 884-892.	7.8	36
18	Tissue deposition and toxicological effects of commercially significant rare earth oxide nanomaterials: Material and physical properties. Environmental Toxicology, 2017, 32, 904-917.	4.0	22

#	Article	IF	Citations
19	Aqueous medium induced optical transitions in cerium oxide nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 6217-6221.	2.8	13
20	Laser irradiated nano-architectured undoped tin oxide arrays: mechanism of ultrasensitive room temperature hydrogen sensing. Nanoscale, 2012, 4, 7256.	5.6	8