

Dojalisa Sahu

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

410
citations

759233

12
h-index

752698

20
g-index

29
all docs

29
docs citations

29
times ranked

458
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence and photocatalytic properties of europium doped ZnO nanoparticles. Applied Surface Science, 2019, 494, 666-674.	6.1	63
2	Enhanced UV absorbance and photoluminescence properties of ultrasound assisted synthesized gold doped ZnO nanorods. Optical Materials, 2014, 36, 1402-1407.	3.6	61
3	Microstructural and optical investigations on sonochemically synthesized Cu doped ZnO nanobricks. Ceramics International, 2014, 40, 11041-11049.	4.8	38
4	Effect of Gd doping on structure and photoluminescence properties of ZnO nanocrystals. Materials Research Express, 2017, 4, 114001.	1.6	38
5	Role of Ag ions on the structural evolution of nano ZnO clusters synthesized through ultrasonication and their optical properties. Ultrasonics Sonochemistry, 2011, 18, 601-607.	8.2	32
6	Probing the surface states in nano ZnO powder synthesized by sonication method: Photo and thermo-luminescence studies. Journal of Luminescence, 2010, 130, 1371-1378.	3.1	29
7	High UV absorption efficiency of nanocrystalline ZnO synthesized by ultrasound assisted wet chemical method. Current Applied Physics, 2015, 15, 389-396.	2.4	28
8	Sm ³⁺ driven enhancement in photocatalytic degradation of hazardous dyes and photoluminescence properties of hexagonal-ZnO nanocolumns. Nano Express, 2021, 2, 010007.	2.4	15
9	Novel ZnO blended SnO ₂ nanocatalysts exhibiting superior degradation of hazardous pollutants and enhanced visible photoemission properties. Journal of Molecular Structure, 2021, 1244, 131245.	3.6	14
10	Growth Morphology and Optical Properties of ZnO Nanostructures on Different Substrates. Journal of Nanoscience and Nanotechnology, 2013, 13, 427-433.	0.9	13
11	Enhanced hydrogen generation efficiency of methanol using dielectric barrier discharge plasma methodology and conducting sea water as an electrode. Heliyon, 2020, 6, e04717.	3.2	13
12	Effect of Zn Concentration on Microstructural, Optical, and Hyperfine Properties of Nanocrystalline Fe^{2+} -Fe ₂ O ₃ . Acta Metallurgica Sinica (English Letters), 2014, 27, 563-568.	2.9	12
13	Degradation of Industrial Phenolic Wastewater Using Dielectric Barrier Discharge Plasma Technique. Russian Journal of Applied Chemistry, 2020, 93, 905-915.	0.5	11
14	Ultrasound Assisted Synthesis and Properties of ZnO:B Nanorods and Micro Flowers. Journal of Nanoscience and Nanotechnology, 2012, 12, 6977-6986.	0.9	10
15	Nanocrystalline gadolinium doped ZnO: An excellent photoluminescent material and efficient photocatalyst towards optoelectronic and environment remedial applications. Ceramics International, 2022, 48, 28835-28842.	4.8	7
16	Exhibition of Novel Photocatalytic Activity and Photoluminescence Properties with High Inhibition Towards Bacterial Growth by Hydrothermally Grown ZnO Nanorods. Current Nanoscience, 2021, 17, 162-169.	1.2	4
17	Studying the Effects of Cu Doping on Structure and Photoluminescence Properties of SnO ₂ Nanoparticle with Its Effectiveness towards the Mineralization of Toxic Industrial Dye. ECS Journal of Solid State Science and Technology, 2021, 10, 071006.	1.8	4
18	Tuning surface wettability of molybdenum oxide nanorod mesh by low energy ion beam irradiation. Radiation Physics and Chemistry, 2021, 188, 109649.	2.8	4

#	ARTICLE	IF	CITATIONS
19	Growth and Gd doping of ZnO nanostructures with enhanced structural, optical properties and photocatalytic applications. IOP Conference Series: Materials Science and Engineering, 2022, 1219, 012037.	0.6	4
20	Synthesis and photocatalytic activity of Ni doped SnO ₂ nanoparticles for removal of toxic industrial dyes. Materials Today: Proceedings, 2022, 68, 80-84.	1.8	4
21	Evaluation of Antibacterial Activity, Biodegradability and Mechanical Properties of Chitosan Blended ZnO Biofilm for Food Packaging. Oriental Journal of Chemistry, 2020, 36, 367-372.	0.3	2
22	Study on the electronic band structure of ZnO/SnO ₂ heterostructured nanocomposites with mechanistic investigation on the enhanced photoluminescence and photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2022, 33, 9599-9615.	2.2	2
23	Microstructural and optical studies on sonochemically synthesized Cu doped ZnO nanoparticles. , 2014, , .		1
24	Electrical conduction mechanism in nanocrystalline ZnO induced by donor/acceptor doping. Journal of Materials Science: Materials in Electronics, 2022, 33, 8504-8518.	2.2	1
25	Probing the effect of intrinsic defects and dopants on the structural evolution and optical properties of ZnO nanocrystallites. AIP Conference Proceedings, 2015, , .	0.4	0
26	Facile synthesis and improved optical activity in ZnO nanocrystallites doped with coinage metals. AIP Conference Proceedings, 2015, , .	0.4	0
27	Luminescence properties of rare earth doped metal oxide nanostructures: A case of Eu-ZnO. AIP Conference Proceedings, 2016, , .	0.4	0
28	ZnO Nanosheets Exhibiting High UV Blocking Efficiency for Effective Application in Sunscreen. Asian Journal of Chemistry, 2020, 32, 1809-1814.	0.3	0
29	Effect of incorporation of magnetization in antiferromagnetic Cr ₂ O ₃ by mechanically alloying with Fe nanoparticles. Materials Letters, 2021, 300, 130170.	2.6	0