

Rachna Ahlawat

List of Publications by Year in descending order

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papers

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1039880

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#	ARTICLE	IF	CITATIONS
1	Annealing effect on bandgap energy and photocatalytic properties of CeO ₂ @SiO ₂ nanocomposite prepared by sol-gel technique. <i>Materials Chemistry and Physics</i> , 2020, 241, 122401.	2.0	29
2	Synthesis and characterizations of Eu ₂ O ₃ nanocrystallites and its effect on optical investigations of Eu ³⁺ , Eu ²⁺ : SiO ₂ nanopowder. <i>Journal of Alloys and Compounds</i> , 2018, 743, 126-135.	2.8	23
3	Synthesis, structural and enhanced optoelectronic properties of Cd(OH) ₂ /CdO nanocomposite. <i>Physica B: Condensed Matter</i> , 2020, 582, 411973.	1.3	22
4	Structural and optical investigations of Nd ³⁺ -doped Y ₂ O ₃ -SiO ₂ nanopowder. <i>Journal of Alloys and Compounds</i> , 2018, 730, 450-457.	2.8	21
5	Influence of annealing temperature on structural and optical properties of SiO ₂ :RE ₂ O ₃ [RE=Y, Gd] powder. <i>Journal of Alloys and Compounds</i> , 2015, 638, 356-363.	2.8	15
6	Influence of multi-step annealing on nanostructure and surface morphology of Y ₂ O ₃ :SiO ₂ powder. <i>Ceramics International</i> , 2015, 41, 7345-7351.	2.3	14
7	Cu-doped Cd _{1-x} Zn _x S alloy: synthesis and structural investigations. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	13
8	Role of Ceria Nanocrystals on Morphology and Luminescence of Eu ³⁺ doped SiO ₂ nanopowder. <i>Journal of Luminescence</i> , 2019, 208, 135-144.	1.5	12
9	Tailoring the Structural and Optical Parameters of Eu ³⁺ :CeO ₂ -SiO ₂ Nanopowder Via Thermal Treatment. <i>Silicon</i> , 2019, 11, 2521-2529.	1.8	12
10	Cu ²⁺ @Mn ²⁺ -Co-doped CdO nanocrystallites: comprehensive research on phase, morphology and optoelectronic properties. <i>Research on Chemical Intermediates</i> , 2020, 46, 4211-4232.	1.3	12
11	Preparation and effect of thermal treatment on Gd ₂ O ₃ :SiO ₂ nanocomposite. <i>Modern Physics Letters B</i> , 2015, 29, 1550046.	1.0	11
12	Effect of Concentration and Temperature on the Surface Morphology of Gd ₂ O ₃ Nanocrystallites in Silica. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 1131-1139.	1.1	8
13	Characterizations of Pb ²⁺ : ZnAl ₂ O ₄ spinels synthesized via citrate sol-gel technique. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
14	Plate like Cd(OH) ₂ -CdO nanocomposite: A study on surface morphology and band gap energy. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
15	Crystallographic and electro-optic analysis of pure and Cu/Mn-doped Cd _{0.6} Zn _{0.4} O ternary alloy: Role of the defect states and imperfection density. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115214.	1.7	6
16	Gd ₂ O ₃ :SiO ₂ Nanocomposite: Study on Structural and Optical Behavior. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E256.	1.1	5
17	Highly crystalline and narrow bandgap MgAl ₂ O ₄ : Synthesis and characterization. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	5
18	Synthesis of Cu doped Cd(OH) ₂ -CdO layered nanostructures and investigation of its different intermediate phases, optical and dc-electrical properties. <i>Materials Today Communications</i> , 2020, 25, 101608.	0.9	4

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19	Zinc content (x) induced impact on crystallographic, optoelectronic, and photocatalytic parameters of Cd _{1-x} Zn _x O (0 ≤ x ≤ 1) ternary nanopowder. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115001.	1.7	4
20	Impact of Annealing Time on Structural Evolution of Pure and Dy ³⁺ -Doped CeO ₂ Nanopowder, Rietveld Refinement and Optical Behavior. International Journal of Nanoscience, 0, , 2150033.	0.4	4
21	Structural and dye degradation study of cubic nanocrystalline yttria. AIP Conference Proceedings, 2021, , .	0.3	3
22	Mn ²⁺ -Doped CdO Nanopowder: Synthesis, Phase Conversion, and Characterizations via a Temperature-Dependent Mechanism. Journal of Electronic Materials, 2022, 51, 1717-1730.	1.0	3
23	Structural and optical properties of Nb ₂ O ₅ /SiO ₂ powder prepared by sol-gel method. AIP Conference Proceedings, 2020, , .	0.3	2
24	Structural, Thermal and Luminescence Study of Ceria Nanocrystals Dispersed in Silica Matrix. Silicon, 2020, 12, 2503-2513.	1.8	2
25	Impact of Annealing on Structure, Morphology, Bandgap, Optical and Dielectric Behavior of Er ³⁺ -Doped SiO ₂ Nanopowder Useful for Photonic Devices. Silicon, 2022, 14, 8543-8555.	1.8	2
26	Impact of indirect excitation mechanism on luminescence enhancement of Eu ³⁺ : SiO ₂ -CeO ₂ nanopowder. AIP Conference Proceedings, 2019, , .	0.3	1
27	Study of crystallographic modification in cadmium oxide (CdO) nanocrystallites due to doped transition metal (TM) ions. AIP Conference Proceedings, 2021, , .	0.3	1
28	Characteristics and quality of grown potassium thiourea iodide crystal for second harmonic generation. Journal of Materials Science: Materials in Electronics, 2015, 26, 2215-2221.	1.1	0
29	Effect of annealing on photo degradation of Rhodamine 6G using CeO ₂ -SiO ₂ nanocomposite. AIP Conference Proceedings, 2019, , .	0.3	0
30	Structural and optical investigations of Gd ₂ O ₃ :Dy ³⁺ nanophosphor. AIP Conference Proceedings, 2019, , .	0.3	0
31	Yb doped SiO ₂ nanorods prepared by sol-gel method. AIP Conference Proceedings, 2021, , .	0.3	0
32	Synthesis and Structural Investigations of Cu, Mn doped Cd _{1-x} Zn _x S Quantum Dots. International Journal of Chemical and Physical Sciences, 2018, 7, 01.	0.2	0
33	Identification of Different Phases and Thermal Analysis of Mn Doped Cadmium Oxide Nano-rods. Springer Proceedings in Physics, 2022, , 221-230.	0.1	0
34	Structural and Photocatalytic Analysis of Nanostructured CdO, ZnO and their Composite Useful to Remove Textile Dyes Waste from the Drainage System. International Journal of Advanced Research in Science, Communication and Technology, 0, , 332-337.	0.0	0