

# Rachna Ahlawat

## List of Publications by Year in descending order

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34  
papers

248  
citations

1039880

9  
h-index

1058333

14  
g-index

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34  
docs citations

34  
times ranked

108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Annealing on Structure, Morphology, Bandgap, Optical and Dielectric Behavior of Er <sup>3+</sup> -Doped SiO <sub>2</sub> Nanopowder Useful for Photonic Devices. <i>Silicon</i> , 2022, 14, 8543-8555.	1.8	2
2	Mn <sup>2+</sup> -Doped CdO Nanopowder: Synthesis, Phase Conversion, and Characterizations via a Temperature-Dependent Mechanism. <i>Journal of Electronic Materials</i> , 2022, 51, 1717-1730.	1.0	3
3	Identification of Different Phases and Thermal Analysis of Mn Doped Cadmium Oxide Nano-rods. <i>Springer Proceedings in Physics</i> , 2022, , 221-230.	0.1	0
4	Study of crystallographic modification in cadmium oxide (CdO) nanocrystallites due to doped transition metal (TM) ions. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	1
5	Yb doped SiO <sub>2</sub> nanorods prepared by sol-gel method. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
6	Structural and dye degradation study of cubic nanocrystalline yttria. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	3
7	Highly crystalline and narrow bandgap MgAl <sub>2</sub> O <sub>4</sub> : Synthesis and characterization. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	5
8	Zinc content (x) induced impact on crystallographic, optoelectronic, and photocatalytic parameters of Cd <sub>1-x</sub> Zn <sub>x</sub> O (0 ≤ x ≤ 1) ternary nanopowder. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 265, 115001.	1.7	4
9	Crystallographic and electro-optic analysis of pure and Cu/Mn-doped Cd <sub>0.6</sub> Zn <sub>0.4</sub> 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
10	Annealing effect on bandgap energy and photocatalytic properties of CeO <sub>2</sub> -SiO <sub>2</sub> nanocomposite prepared by sol-gel technique. <i>Materials Chemistry and Physics</i> , 2020, 241, 122401.	2.0	29
11	Synthesis, structural and enhanced optoelectronic properties of Cd(OH) <sub>2</sub> /CdO nanocomposite. <i>Physica B: Condensed Matter</i> , 2020, 582, 411973.	1.3	22
12	Synthesis of Cu doped Cd(OH) <sub>2</sub> -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
13	Structural and optical properties of Nb <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> powder prepared by sol-gel method. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
14	Structural, Thermal and Luminescence Study of Ceria Nanocrystals Dispersed in Silica Matrix. <i>Silicon</i> , 2020, 12, 2503-2513.	1.8	2
15	Cu <sup>2+</sup> -Mn <sup>2+</sup> -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
16	Characterizations of Pb <sup>2+</sup> : ZnAl <sub>2</sub> O <sub>4</sub> spinels synthesized via citrate sol-gel technique. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
17	Effect of annealing on photo degradation of Rhodamine 6G using CeO <sub>2</sub> -SiO <sub>2</sub> nanocomposite. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
18	Impact of indirect excitation mechanism on luminescence enhancement of Eu <sup>3+</sup> : SiO <sub>2</sub> -CeO <sub>2</sub> nanopowder. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1

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19	Plate like Cd(OH) <sub>2</sub> -CdO nanocomposite: A study on surface morphology and band gap energy. AIP Conference Proceedings, 2019, , .	0.3	7
20	Structural and optical investigations of Gd <sub>2</sub> O <sub>3</sub> :Dy <sup>3+</sup> nanophosphor. AIP Conference Proceedings, 2019, , .	0.3	0
21	Role of Ceria Nanocrystals on Morphology and Luminescence of Eu <sup>3+</sup> doped SiO <sub>2</sub> nanopowder. Journal of Luminescence, 2019, 208, 135-144.	1.5	12
22	Tailoring the Structural and Optical Parameters of Eu <sup>3+</sup> :CeO <sub>2</sub> -SiO <sub>2</sub> Nanopowder Via Thermal Treatment. Silicon, 2019, 11, 2521-2529.	1.8	12
23	Synthesis and characterizations of Eu <sub>2</sub> O <sub>3</sub> nanocrystallites and its effect on optical investigations of Eu <sup>3+</sup> , Eu <sup>2+</sup> : SiO <sub>2</sub> nanopowder. Journal of Alloys and Compounds, 2018, 743, 126-135.	2.8	23
24	Structural and optical investigations of Nd <sup>3+</sup> -doped Y <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> nanopowder. Journal of Alloys and Compounds, 2018, 730, 450-457.	2.8	21
25	Synthesis and Structural Investigations of Cu, Mn doped Cd <sub>1-x</sub> Zn <sub>x</sub> S Quantum Dots. International Journal of Chemical and Physical Sciences, 2018, 7, 01.	0.2	0
26	Cu-doped Cd <sub>1-x</sub> Zn <sub>x</sub> S alloy: synthesis and structural investigations. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	13
27	Effect of Concentration and Temperature on the Surface Morphology of Gd <sub>2</sub> O <sub>3</sub> Nanocrystallites in Silica. International Journal of Applied Ceramic Technology, 2015, 12, 1131-1139.	1.1	8
28	Gd <sub>2</sub> O <sub>3</sub> :SiO <sub>2</sub> Nanocomposite: Study on Structural and Optical Behavior. International Journal of Applied Ceramic Technology, 2015, 12, E256.	1.1	5
29	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
30	Influence of multi-step annealing on nanostructure and surface morphology of Y <sub>2</sub> O <sub>3</sub> :SiO <sub>2</sub> powder. Ceramics International, 2015, 41, 7345-7351.	2.3	14
31	Influence of annealing temperature on structural and optical properties of SiO <sub>2</sub> :RE <sub>2</sub> O <sub>3</sub> [RE=Y, Gd] powder. Journal of Alloys and Compounds, 2015, 638, 356-363.	2.8	15
32	Preparation and effect of thermal treatment on Gd <sub>2</sub> O <sub>3</sub> :SiO <sub>2</sub> nanocomposite. Modern Physics Letters B, 2015, 29, 1550046.	1.0	11
33	Impact of Annealing Time on Structural Evolution of Pure and Dy <sup>3+</sup> -Doped CeO <sub>2</sub> Nanopowder, Rietveld Refinement and Optical Behavior. International Journal of Nanoscience, 0, , 2150033.	0.4	4
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