

Ashok Kumar

List of Publications by Year in descending order

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39

papers

1,256

citations

394421

19

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docs citations

39

times ranked

1075

citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of Ni-Zn ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1015-1019.	2.3	133
2	Influence of preparation method on structural and magnetic properties of nickel ferrite nanoparticles. <i>Bulletin of Materials Science</i> , 2011, 34, 1345-1350.	1.7	125
3	Zn Doped γ -Fe ₂ O ₃ : An Efficient Material for UV Driven Photocatalysis and Electrical Conductivity. <i>Crystals</i> , 2020, 10, 273.	2.2	86
4	Structural and magnetic studies of the nickel doped CoFe ₂ O ₄ ferrite nanoparticles synthesized by the chemical co-precipitation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 379-384.	2.3	85
5	Electronic structure and photocatalytic activity of samarium doped cerium oxide nanoparticles for hazardous rose bengal dye degradation. <i>Vacuum</i> , 2020, 172, 109075.	3.5	72
6	UV-irradiated photocatalytic performance of yttrium doped ceria for hazardous Rose Bengal dye. <i>Applied Surface Science</i> , 2019, 493, 87-93.	6.1	62
7	Oxygen-deficient lanthanum doped cerium oxide nanoparticles for potential applications in spintronics and photocatalysis. <i>Vacuum</i> , 2020, 177, 109395.	3.5	58
8	Finite size effect on Gd ³⁺ doped CoGdxFe _{2-x} O ₄ (0.0% \leq x \leq 0.5) particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3688-3691.	2.3	54
9	Ferrite application as an electrochemical sensor: A review. <i>Materials Characterization</i> , 2021, 178, 111269.	4.4	54
10	Influence of La ³⁺ ion doping on physical properties of magnesium nanoferrites for microwave absorption application. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 460, 69-77.	2.3	45
11	Finite size effect on Sm ³⁺ doped Mn _{0.5} Zn _{0.5} Sm Fe ₂ O ₄ (0% \leq x \leq 0.5) ferrite nanoparticles. <i>Ceramics International</i> , 2015, 41, 8623-8629.	4.8	36
12	Investigations on magnetic and electrical properties of Zn doped Fe ₂ O ₃ nanoparticles and their correlation with local electronic structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165398.	2.3	36
13	Induced size effect on Ni doped Nickel Zinc Ferrite Nanoparticles. <i>Physics Procedia</i> , 2010, 9, 20-23.	1.2	35
14	Effect of Gd ³⁺ ion distribution on structural and magnetic properties in nano-sized Mn-Zn ferrite particles. <i>Ceramics International</i> , 2015, 41, 1297-1302.	4.8	35
15	Cd ²⁺ substituted nickel ferrite doped polyaniline nanocomposites as effective shield against electromagnetic radiation in X-band frequency. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 491, 165549.	2.3	34
16	Erbium-doped oxygen deficient cerium oxide: bi-functional material in the field of spintronics and photocatalysis. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1721-1733.	3.1	33
17	Structural, optical and weak magnetic properties of Co and Mn codoped TiO ₂ nanoparticles. <i>Solid State Sciences</i> , 2017, 73, 19-26.	3.2	32
18	Photocatalytic activity of γ -Fe ₂ O ₃ @CeO ₂ and CeO ₂ @ γ -Fe ₂ O ₃ core-shell nanoparticles for degradation of Rose Bengal dye. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106266.	6.7	32

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19	Comparative study of structural, magnetic and dielectric properties of CoFe2O4 @ BiFeO3 and BiFeO3@ CoFe2O4 core-shell nanocomposites. Journal of Magnetism and Magnetic Materials, 2019, 475, 30-37.	2.3	29
20	Understanding the role of Ni ions on the photocatalytic activity and dielectric properties of hematite nanostructures: An experimental and DFT approach. Journal of Physics and Chemistry of Solids, 2021, 156, 110118.	4.0	21
21	Structural and paramagnetic resonance properties correlation in lanthanum ion doped nickel ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 508, 166866.	2.3	18
22	Phase transformation and structural evolution in iron oxide nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115329.	3.5	18
23	A study on structural and magnetic properties of $Ni_xZn_{1-x}Fe_2O_4$ ($0 \leq x \leq 0.6$) ferrite nanoparticles. Applied Science Letters, 2015, 1, 33-36.	0.3	14
24	Morphology, structural, dielectric and magnetic study of Ce ³⁺ ion doped Mg _{0.5} Zn _{0.5} Fe _{2-x} Ce _x O ₄ ($0.0 \leq x \leq 0.1$) ferrite nanoparticles. Materials Chemistry and Physics, 2022, 289, 126482.	4.0	12
25	Annealing effect on the structural and dielectric properties of hematite nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	11
26	Influence of Ce ³⁺ Ion Doping on Structural and Magnetic Properties of Magnesium Nanoferrite. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1465-1474.	1.8	11
27	Phase transformation in Fe ₂ O ₃ nanoparticles: Electrical properties with local electronic structure. Physica B: Condensed Matter, 2021, 620, 413275.	2.7	10
28	substituted of Mn $Mn_xFe_{2-x}O_4$ ($0 < x < 0.5$) ferrite nanoparticles. Materials Chemistry and Physics, 2021, 256, 123725.	1.2	9
29	Structural, Optical, and Multiferroic Properties of Yttrium (Y ³⁺)-Substituted BiFeO ₃ Nanostructures. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2017-2029.	1.8	9
30	Structural and multiferroic properties of BiFeO ₃ /MgLa _{0.025} Fe _{1.975} O ₄ nanocomposite synthesized by sol-gel auto combustion route. Journal of Materials Science: Materials in Electronics, 2020, 31, 2777-2788.	2.2	8
31	Investigations on structural and magnetic properties of Mn doped Er ₂ O ₃ . Solid State Sciences, 2017, 67, 8-12.	3.2	7
32	Size dependent morphology, magnetic and dielectric properties of BiFeO ₃ nanoparticles. MRS Advances, 2019, 4, 1659-1665.	0.9	7
33	Impedance analysis and dielectric response of anatase TiO ₂ nanoparticles codoped with Mn and Co ions. Materials Research Express, 2017, 4, 115035.	1.6	6
34	Annealing effect on photocatalytic and magnetic properties of Zn doped hematite nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	6
35	Photocatalytic application of lithium doped cerium oxide nanoparticles upon UV light irradiation. AIP Conference Proceedings, 2019, , .	0.4	5
36	Influence of Ce ³⁺ ion doping on structural and magnetic properties of Mn-Co ferrite nanoparticles. AIP Conference Proceedings, 2021, , .	0.4	4

#	ARTICLE	IF	CITATIONS
37	Effect of Mg ²⁺ substitution on structural and magnetic properties of nano zinc ferrite. AIP Conference Proceedings, 2018, , .	0.4	2
38	Influence of La ³⁺ ion doping on structural and magnetic properties of nickel ferrite nanoparticles prepared by sol-gel route. AIP Conference Proceedings, 2019, , .	0.4	2
39	Effect of Annealing on Structural Properties of Fe ₃ O ₄ Ferrite Nanoparticles. Advanced Science Letters, 2018, 24, 5748-5751.	0.2	0