Ashok Kumar

List of Publications by Year
in descending order

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39 papers	1,256 citations	394421 19 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	1075 citing authors

#	Article	IF	Citations
1	Morphology, structural, dielectric and magnetic study of Ce3+ ion doped Mg0.5Zn0.5Fe2-xCexO4 (0.0â‰¤xâ‰¤0.1) ferrite nanoparticles. Materials Chemistry and Physics, 2022, 289, 126482.	4.0	12
2	Influence of Ce3+ ion doping on structural and magnetic properties of Mn-Co ferrite nanoparticles. AIP Conference Proceedings, 2021, , .	0.4	4
3	Ferrite application as an electrochemical sensor: A review. Materials Characterization, 2021, 178, 111269.	4.4	54
4	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
5	Photocatalytic activity of Î±-Fe2O3@CeO2 and CeO2@Î±-Fe2O3 core-shell nanoparticles for degradation of Rose Bengal dye. Journal of Environmental Chemical Engineering, 2021, 9, 106266.	6.7	32
6	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
7	Phase transformation in Fe2O3 nanoparticles: Electrical properties with local electronic structure. Physica B: Condensed Matter, 2021, 620, 413275.	2.7	10
8	Electronic structure and photocatalytic activity of samarium doped cerium oxide nanoparticles for hazardous rose bengal dye degradation. Vacuum, 2020, 172, 109075.	3.5	72
9	Annealing effect on photocatalytic and magnetic properties of Zn doped hematite nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	6
10	Oxygen-deficient lanthanum doped cerium oxide nanoparticles for potential applications in spintronics and photocatalysis. Vacuum, 2020, 177, 109395.	3.5	58
11	Structural, Optical, and Multiferroic Properties of Yttrium (Y3+)-Substituted BiFeO3 Nanostructures. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2017-2029.	1.8	9
12	Structural and multiferroic properties of BiFeO3/MgLa0.025Fe1.975O4 nanocomposite synthesized by solâ€“gel auto combustion route. Journal of Materials Science: Materials in Electronics, 2020, 31, 2777-2788.	2.2	8
13	Erbium-doped oxygen deficient cerium oxide: bi-functional material in the field of spintronics and photocatalysis. Applied Nanoscience (Switzerland), 2020, 10, 1721-1733.	3.1	33
14	Zn Doped Î±-Fe2O3: An Efficient Material for UV Driven Photocatalysis and Electrical Conductivity. Crystals, 2020, 10, 273.	2.2	86
15	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
16	Size dependent morphology, magnetic and dielectric properties of BiFeO3 nanoparticles. MRS Advances, 2019, 4, 1659-1665.	0.9	7
17	Cd2+ substituted nickel ferrite doped polyaniline nanocomposites as effective shield against electromagnetic radiation in X-band frequency. Journal of Magnetism and Magnetic Materials, 2019, 491, 165549.	2.3	34
18	UV-irradiated photocatalytic performance of yttrium doped ceria for hazardous Rose Bengal dye. Applied Surface Science, 2019, 493, 87-93.	6.1	62

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19	Photocatalytic application of lithium doped cerium oxide nanoparticles upon UV light irradiation. AIP Conference Proceedings, 2019, , .	0.4	5
20	Investigations on magnetic and electrical properties of Zn doped Fe2O3 nanoparticles and their correlation with local electronic structures. Journal of Magnetism and Magnetic Materials, 2019, 489, 165398.	2.3	36
21	Influence of La3+ ion doping on structural and magnetic properties of nickel ferrite nanoparticles prepared by sol-gel route. AIP Conference Proceedings, 2019, , .	0.4	2
22	Influence of Ce3+ Ion Doping on Structural and Magnetic Properties of Magnesium Nanoferrite. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1465-1474.	1.8	11
23	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
24	Influence of La3+ ion doping on physical properties of magnesium nanoferrites for microwave absorption application. Journal of Magnetism and Magnetic Materials, 2018, 460, 69-77.	2.3	45
25	Annealing effect on the structural and dielectric properties of hematite nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	11
26	Effect of Mg2+ substitution on structural and magnetic properties of nano zinc ferrite. AIP Conference Proceedings, 2018, , .	0.4	2
27	Effect of Annealing on Structural Properties of Fe3O4 Ferrite Nanoparticles. Advanced Science Letters, 2018, 24, 5748-5751.	0.2	0
28	Investigations on structural and magnetic properties of Mn doped Er 2 O 3. Solid State Sciences, 2017, 67, 8-12.	3.2	7
29	Structural, optical and weak magnetic properties of Co and Mn codoped TiO 2 nanoparticles. Solid State Sciences, 2017, 73, 19-26.	3.2	32
30	Impedance analysis and dielectric response of anatase TiO₂nanoparticles codoped with Mn and Co ions. Materials Research Express, 2017, 4, 115035.	1.6	6
31	Structural and magnetic studies of the nickel doped CoFe2O4 ferrite nanoparticles synthesized by the chemical co-precipitation method. Journal of Magnetism and Magnetic Materials, 2015, 394, 379-384.	2.3	85
32	A study on structural and magnetic properties of NixZn1-xFe2O4 (0 â‰¤ x â‰¤ 0.6) ferrite nanoparticles. Applied Science Letters, 2015, 1, 33-36.	0.3	14
33	Finite size effect on Sm3+ doped Mn0.5Zn0.5Sm Fe2â^'O4 (0â‰¤xâ‰¤0.5) ferrite nanoparticles. Ceramics International, 2015, 41, 8623-8629.	4.8	36
34	Effect of Gd3+ ion distribution on structural and magnetic properties in nano-sized Mnâ€“Zn ferrite particles. Ceramics International, 2015, 41, 1297-1302.	4.8	35
35	Influence of preparation method on structural and magnetic properties of nickel ferrite nanoparticles. Bulletin of Materials Science, 2011, 34, 1345-1350.	1.7	125
36	Synthesis and characterization of Niâ€“Zn ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 1015-1019.	2.3	133

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37	Finite size effect on Gd3+ doped CoGdxFe2â‾xO4 (0.0â‰¤xâ‰¤0.5) particles. Journal of Magnetism and Magnetic Materials, 2010, 322, 3688-3691.	2.3	54
38	Induced size effect on Ni doped Nickel Zinc Ferrite Nanoparticles. Physics Procedia, 2010, 9, 20-23.	1.2	35
39	Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> substituted of Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Zn<mml:math xmlns:mml	1.2	9