

Sudhish Kumar

List of Publications by Year in descending order

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102
papers

2,086
citations

201674

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265206

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all docs

108
docs citations

108
times ranked

1803
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancies and defects induced room temperature ferromagnetic properties of pure and Fe-doped CeO ₂ nanomaterials investigated using X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2022, 254, 147140.	1.7	17
2	Lattice defects and oxygen vacancies formulated ferromagnetic, luminescence, structural properties and band-gap tuning in Nd ³⁺ substituted ZnO nanoparticles. Journal of Luminescence, 2022, 243, 118673.	3.1	39
3	Oxygen vacancy induced structural and domain size-controlled magnetic behavior of La _{0.67} Ca _{0.33} MnO ₃ perovskite. Journal of Materials Science: Materials in Electronics, 2022, 33, 6829-6841.	2.2	4
4	Exploring Magnetic Behaviour in La _{0.70} Pr _{0.30} Mn _{0.8} Co _{0.2} O ₃ Perovskite. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1183-1193.	1.8	5
5	Green synthesis and characterization of Mg _{0.93} Na _{0.07} O nanoparticles for antimicrobial activity, cytotoxicity and magnetic hyperthermia. Ceramics International, 2022, 48, 28355-28373.	4.8	11
6	Exploration of spectroscopic, surface morphological, structural, electrical, optical and mechanical properties of biocompatible PVA-GO PNCs. Diamond and Related Materials, 2022, 127, 109158.	3.9	24
7	Ca ²⁺ -substitution effect on the defect structural changes in the quadruple perovskite series Ca ₁ Cu ₃ Ti ₄ O ₁₂ studied by positron annihilation and complementary methods. Ceramics International, 2021, 47, 2631-2640.	4.8	10
8	Oxygen vacancies mediated cooperative magnetism in ZnO nanocrystals: A d ₀ ferromagnetic case study. Vacuum, 2021, 184, 109921.	3.5	44
9	Impact of hydrogenation on the structural, dielectric and magnetic properties of La _{0.5} Ca _{0.5} MnO ₃ . Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	9
10	Nanoporous carbon doped ceria bismuth oxide solid solution for photocatalytic water splitting. Sustainable Energy and Fuels, 2021, 5, 2545-2562.	4.9	6
11	A comprehensive study on the impact of Gd substitution on structural, optical and magnetic properties of ZnO nanocrystals. Journal of Alloys and Compounds, 2021, 868, 159142.	5.5	56
12	Low temperature field dependent magnetic study of the Zn _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2021, 536, 168102.	2.3	15
13	Exploring the structural, elastic, optical, dielectric and magnetic characteristics of Ca ²⁺ incorporated superparamagnetic Zn _{0.5} Ca _{0.1} Co _{0.4+x} Fe ₂ O ₄ (x = 0, 0.05 & 0.1) nanoferrites. Journal of Alloys and Compounds, 2021, 886, 161190.	5.5	19
14	Cation distribution and magnetic ordering evolution study on Ca _{1-x} Cu _{3-x} Ti ₄ O ₁₂ (x = 0-0.2) perovskites. Solid State Sciences, 2020, 99, 106070.	3.2	6
15	Synthesis, structural, dielectric and peculiar magnetic behaviour of Pb ₂ Mn ₂ Si ₂ O ₉ . Ceramics International, 2020, 46, 28716-28724.	4.8	4
16	Study of structural, optical and electronic structure properties of Sm ₂ O ₃ -ZnO nanomaterials. AIP Conference Proceedings, 2020, , .	0.4	4
17	Defect induced structural and Raman study of Nd-doped CeO ₂ nanomaterials. AIP Conference Proceedings, 2020, , .	0.4	2
18	Irreversible magnetic behavior with temperature variation of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 507, 166861.	2.3	38

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19	Oxygen vacancies and F+ centre tailored room temperature ferromagnetic properties of CeO ₂ nanoparticles with Pr doping concentrations and annealing in hydrogen environment. Journal of Alloys and Compounds, 2020, 844, 156079.	5.5	48
20	Interplay of structural, optical, and magnetic properties of Ce _{1-x} Nd _x O _{2-δ} nanoparticles with electronic structure probed using X-ray absorption spectroscopy. Vacuum, 2020, 180, 109537.	3.5	17
21	Defects and oxygen vacancies tailored structural, optical and electronic structure properties of Co-doped ZnO nanoparticle samples probed using soft X-ray absorption spectroscopy. Vacuum, 2020, 179, 109538.	3.5	28
22	Wasp-waisted like magnetic behavior of nanocrystalline CoFe ₂ O ₄ at 5K. AIP Conference Proceedings, 2020, , .	0.4	2
23	Synthesis and optical properties of anatase-TiO ₂ nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	2
24	Synthesis and rietveld refinement of MgO nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	4
25	Defects and oxygen vacancies tailored structural, optical, photoluminescence and magnetic properties of Li doped ZnO nanohexagons. Ceramics International, 2020, 46, 12296-12317.	4.8	46
26	Structural, cation distribution, optical and magnetic properties of quaternary Co _{0.4+x} Zn _{0.6-x} Fe ₂ O ₄ (x = 0.0, 0.1 and 0.2) and Li doped quinary Co _{0.4+x} Zn _{0.5-x} Li _{0.1} Fe ₂ O ₄ (x = 0.0, 0.05 and 0.1) nanoferrites. Journal of Alloys and Compounds, 2020, 828, 154388.	5.5	45
27	Synthesis, structural, electrical and magnetic characterization of apatite-type lanthanide silicates. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
28	Study of structural, optical and photoluminescence properties of Zn _{0.93} Mg _{0.07} O nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	3
29	Dielectric and superparamagnetic behavior of nanocrystalline CaFe ₂ O ₄ . AIP Conference Proceedings, 2020, , .	0.4	3
30	Influence of annealing on the structural, optical and photoluminescence properties of TiO ₂ nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	1
31	Synthesis, photoluminescence and CIE chromaticity of nanocrystalline Zn _{1-x} CaxO (x=0.02&0.05). AIP Conference Proceedings, 2019, , .	0.4	4
32	First observation of reversible mechanochromism and chromaticity study on calciumâ€“copperâ€“titanate. Journal of the American Ceramic Society, 2019, 102, 6872-6881.	3.8	11
33	A comparative study on the influence of monovalent, divalent and trivalent doping on the structural, optical and photoluminescence properties of Zn _{0.96} Ti _{0.04} O (T: Li+, Ca ²⁺ & Gd ³⁺) nanoparticles. Ceramics International, 2019, 45, 13472-13483.	4.8	46
34	Magnetic and dielectric studies of multiferroic perovskite HoCr _{0.9} Tm _{0.1} O ₃ (T=Fe and Mn). Materials Research Express, 2019, 6, 056107.	1.6	2
35	Kinetics of sonophotocatalytic degradation of an anionic dye nigrosine with doped and undoped zinc oxide. Water Science and Technology, 2019, 80, 1466-1475.	2.5	11
36	Electronic Structure and Room Temperature Ferromagnetism in Gdâ€“doped Cerium Oxide Nanoparticles for Hydrogen Generation via Photocatalytic Water Splitting. Global Challenges, 2019, 3, 1800090.	3.6	62

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37	Rietveld refinement, Raman, optical, dielectric, Mössbauer and magnetic characterization of superparamagnetic fcc-CaFe ₂ O ₄ nanoparticles. <i>Ceramics International</i> , 2019, 45, 5837-5847.	4.8	58
38	Defects and oxygen vacancies tailored structural and optical properties in CeO ₂ nanoparticles doped with Sm ³⁺ cation. <i>Journal of Alloys and Compounds</i> , 2018, 752, 520-531.	5.5	104
39	Structural, optical and magnetic properties of Fe-doped CeO ₂ samples probed using X-ray photoelectron spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10141-10153.	2.2	55
40	Structural and magnetic behavior of nanocrystalline Cr doped Co-Mg ferrite. <i>Ceramics International</i> , 2018, 44, 6747-6753.	4.8	30
41	Effect of thermal history on structural, microstructural properties and J-E characteristics of CaCu ₃ Ti ₄ O ₁₂ polycrystalline ceramic. <i>Materials Chemistry and Physics</i> , 2018, 212, 343-350.	4.0	23
42	Effect of Co and O defects on ferromagnetism in Co-doped ZnO: An X-ray absorption spectroscopic investigation. <i>Physica B: Condensed Matter</i> , 2018, 530, 1-6.	2.7	7
43	Optical and magnetic behaviour of nanocrystalline 5% Ca doped ZnO. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
44	Optical absorption and photoluminescence study of nanocrystalline Zn _{0.92} Mn _{0.08} O (M: Li & Gd). <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
45	A Ti L _{3,2} - and K- edge XANES and EXAFS study on Fe ³⁺ - substituted CaCu ₃ Ti ₄ O ₁₂ . <i>Ceramics International</i> , 2018, 44, 20716-20722.	4.8	19
46	Optical and superparamagnetic behavior of ZnFe ₂ O ₄ nanoparticles. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
47	Synthesis, characterization and magnetism of novel Cobalt-Kermanite:Ca ₂ CoSi ₂ O ₇ . <i>Physica B: Condensed Matter</i> , 2017, 511, 47-53.	2.7	9
48	Structural, optical and magnetic properties of MCuSi ₄ O ₁₀ (M=Ba and Sr) blue pigments. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3716-3724.	2.2	10
49	Influence of Li doping on structural, electrical, optical and magnetic properties of Zn _{0.96} Mn _{0.04} O nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 454-462.	2.2	5
50	Degradation of Sunset Yellow FCF using copper loaded bentonite and H ₂ O ₂ as photo-Fenton like reagent. <i>Arabian Journal of Chemistry</i> , 2017, 10, S205-S211.	4.9	30
51	Structural, optical and magnetic behaviour of nanocrystalline Volborthite. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
52	Changes in optical behaviour of iron pyritohedron upon microwave treatment. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
53	Synthesis, characterization and application of nano-sized titanium dioxide as a photocatalyst for degradation of methylene blue. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 528-536.	5.2	30
54	Influence of sodium substitution on structural and optical properties of Zn _{0.96} Mn _{0.04} O nanocrystals. , 2014, , .		3

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55	Role of copper pyrovanadate as heterogeneous photo-Fenton like catalyst for the degradation of neutral red and azure-B: An eco-friendly approach. Korean Journal of Chemical Engineering, 2014, 31, 2183-2191.	2.7	17
56	Influence of Co doping on the structural, optical and magnetic properties of ZnO nanocrystals. Journal of Alloys and Compounds, 2013, 578, 328-335.	5.5	65
57	200ÅMeV Ag ⁺¹⁵ ion irradiation-induced modifications in structural, magnetic and dielectric properties of nanoparticles of Cu _{0.2} Zn _{0.8} Fe ₂ O ₄ ferrite. Radiation Effects and Defects in Solids, 2013, 168, 537-546.	1.2	5
58	Role of Co doping on structural, optical and magnetic properties of TiO ₂ . Journal of Alloys and Compounds, 2013, 552, 274-278.	5.5	64
59	Size dependent structural and magnetic behaviour of CaFe ₂ O ₄ . Current Applied Physics, 2013, 13, 830-835.	2.4	38
60	Effect of 200ÅMeV Ag ⁺¹⁵ ion irradiation on magnetic and dielectric properties of nanocrystalline Zn ²⁺ Cr ferrite. Radiation Effects and Defects in Solids, 2013, 168, 525-531.	1.2	3
61	Electronic and magnetic correlations in Mn doped ZnO nano-rods. , 2013, , .		2
62	Magnetization and XPS study of pristine bulk In ₂ O ₃ . AIP Conference Proceedings, 2013, , .	0.4	2
63	Magnetic behaviour of praseodymium substituted perovskites La _{1-x} Pr _x Mn _{0.8} Co _{0.2} O ₃ . AIP Conference Proceedings, 2013, , .	0.4	4
64	Swift heavy ion irradiation induced modifications in magnetic and dielectric properties of Mn ²⁺ Ca ferrite. Applied Surface Science, 2012, 258, 4207-4211.	6.1	31
65	Comment on "Preparation of transition metal phosphides using the facile solid state synthesis". Journal of Alloys and Compounds, 2012, 515, 20-21.	5.5	2
66	Investigating the mechanism of ferromagnetic exchange interaction in non-doped CeO ₂ with regard to defects and electronic structure. Materials Chemistry and Physics, 2012, 132, 534-539.	4.0	30
67	Room temperature ferromagnetism in pure and Co- and Fe-doped CeO ₂ dilute magnetic oxide: effect of oxygen vacancies and cation valence. Journal Physics D: Applied Physics, 2011, 44, 165002.	2.8	22
68	Evidence of defect-induced ferromagnetism and its "switch" action in pristine bulk TiO ₂ . Applied Physics Letters, 2011, 98, .	3.3	68
69	Corrigendum to "Defect-induced reversible ferromagnetism in Fe-doped ZnO semiconductor: An electronic structure and magnetization study" [Mater. Chem. Phys. 123 (2010) 678-684]. Materials Chemistry and Physics, 2011, 126, 998.	4.0	1
70	Pr Substitution at Y and Ba sites in YBCO (123) System. AIP Conference Proceedings, 2011, , .	0.4	2
71	Application of Rietveld Method to the Structural Characteristics of some Bulk and Nanocrystalline Materials. , 2011, , .		0
72	Study of electronic structure and magnetization correlations in hydrogenated and vacuum annealed Ni doped ZnO. Journal of Applied Physics, 2011, 109, .	2.5	15

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73	Influence of Co Doping on Structural and Magnetic Properties of Fe ₂ P. Solid State Phenomena, 2011, 171, 93-106.	0.3	0
74	Magnetization enhancement in nanocrystalline Co _{0.4} Zn _{0.6} Fe ₂ O ₄ by 200 Å MeV Ag ¹⁵⁺ ion irradiation. Radiation Effects and Defects in Solids, 2011, 166, 558-563.	1.2	9
75	Synthesis, Structural and Magnetization Studies of Nanocrystalline Cu _{1-x} Zn _x Fe ₂ O ₄ . , 2011, , .		1
76	Preparation and Magnetic Studies of Mn Substituted Analogues of BiFeO ₃ . , 2011, , .		1
77	Synthesis and size dependent magnetic behaviour of nanocrystalline Cu _{0.2} Ni _{0.8} Fe ₂ O ₄ ferrite. , 2011, , .		0
78	Study of room temperature ferromagnetism for cobalt and manganese doped ZnO diluted magnetic semiconductor. Journal of Physics: Conference Series, 2010, 200, 062029.	0.4	1
79	Defect-induced reversible ferromagnetism in Fe-doped ZnO semiconductor: An electronic structure and magnetization study. Materials Chemistry and Physics, 2010, 123, 678-684.	4.0	44
80	Influence of ageing on H-induced ferromagnetism in Zn _{1-x} M _x O (M=Co, Fe, Mn). Materials Letters, 2010, 64, 1846-1849.	2.6	11
81	Defect-induced reversible ferromagnetism in hydrogenated ZnO:Co. Journal of Magnetism and Magnetic Materials, 2010, 322, 2187-2190.	2.3	31
82	On the longevity of H-mediated ferromagnetism in Co doped : A study of electronic and magnetic interplay. Solid State Communications, 2010, 150, 1154-1157.	1.9	23
83	A close correlation between induced ferromagnetism and oxygen deficiency in Fe doped In ₂ O ₃ . Applied Surface Science, 2010, 257, 1053-1057.	6.1	40
84	Role of electronic structure and oxygen defects in driving ferromagnetism in nondoped bulk CeO ₂ . Applied Physics Letters, 2010, 97, .	3.3	86
85	Electronic and magnetic properties of Co-doped ZnO diluted magnetic semiconductor. Journal of Alloys and Compounds, 2010, 496, 324-330.	5.5	94
86	Study of defect-induced ferromagnetism in hydrogenated anatase TiO ₂ :Co. Journal of Applied Physics, 2010, 107, .	2.5	46
87	ROOM TEMPERATURE FERROMAGNETISM IN Mn DOPED ZnO SEMICONDUCTOR. International Journal of Modern Physics B, 2009, 23, 2029-2040.	2.0	4
88	Room temperature ferromagnetism in Mn doped dilute ZnO semiconductor; an electronic structure study. Physica B: Condensed Matter, 2009, 404, 3275-3280.	2.7	20
89	Room temperature ferromagnetism in Mn-doped dilute ZnO semiconductor: An electronic structure study using X-ray photoemission. Journal of Alloys and Compounds, 2009, 477, 379-385.	5.5	100
90	Study of ferromagnetism in Mn doped ZnO dilute semiconductor system. Journal of Physics: Conference Series, 2009, 153, 012065.	0.4	5

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91	Magnetism of (Fe _{0.93} Ni _{0.07}) ₂ P studied using ⁵⁷ Fe Mössbauer spectroscopy. Hyperfine Interactions, 2008, 184, 155-159.	0.5	4
92	Magnetism of (Fe _{0.93} Ni _{0.07}) ₂ P studied using ⁵⁷ Fe Mössbauer spectroscopy. , 2008, , 569-573.		0
93	On nature of magnetism in ferromagnetic alloys (Fe _{1-x} Co _x) ₂ P. Journal Physics D: Applied Physics, 2008, 41, 055001.	2.8	13
94	Structural and magnetic properties of (Fe _{0.93} Ni _{0.07}) ₂ P. Journal of Physics Condensed Matter, 2007, 19, 196217.	1.8	10
95	Neutron diffraction study on the magnetic structure of (Fe _{0.70} Co _{0.30}) ₂ P. Journal of Alloys and Compounds, 2007, 439, 13-17.	5.5	11
96	Synthesis and Characterization of Charge-Transfer Complexes of π -Acceptor TCNQ with Various Phenols. Molecular Crystals and Liquid Crystals, 2007, 469, 99-110.	0.9	2
97	Neutron diffraction study on the magnetic structure of (Fe _{0.90} Cr _{0.03} Ni _{0.07}) ₂ P. Journal of Alloys and Compounds, 2006, 426, 51-56.	5.5	1
98	Magnetization and neutron diffraction studies on FeCrP. Pramana - Journal of Physics, 2004, 63, 199-205.	1.8	6
99	Magnetic behaviour of nano-particles of Fe _{2.9} Zn _{0.1} O ₄ . Pramana - Journal of Physics, 2003, 61, 617-624.	1.8	20
100	Magnetic behaviour of alloys in the series (Fe _{1-x} Co _x) ₂ P. Journal of Magnetism and Magnetic Materials, 2001, 237, 135-142.	2.3	21
101	Magnetic structure of (Fe _{0.97} Cr _{0.03}) ₂ P. Pramana - Journal of Physics, 1999, 52, 111-120.	1.8	15
102	Magnetic Structure of (Fe _{0.93} Ni _{0.07}) ₂ P. Physica Status Solidi A, 1999, 175, 693-697.	1.7	9