Sudhish Kumar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8322087/publications.pdf

Version: 2024-02-01

102	2,086	201674	265206
papers	citations	27	42
		h-index	g-index

108	108	108	1803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defects and oxygen vacancies tailored structural and optical properties in CeO2 nanoparticles doped with Sm3+ cation. Journal of Alloys and Compounds, 2018, 752, 520-531.	5.5	104
2	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
3	Electronic and magnetic properties of Co-doped ZnO diluted magnetic semiconductor. Journal of Alloys and Compounds, 2010, 496, 324-330.	5.5	94
4	Role of electronic structure and oxygen defects in driving ferromagnetism in nondoped bulk CeO2. Applied Physics Letters, 2010, 97, .	3.3	86
5	Evidence of defect-induced ferromagnetism and its â€œswitchâ€•action in pristine bulk TiO2. Applied Physics Letters, 2011, 98, .	3.3	68
6	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
7	Role of Co doping on structural, optical and magnetic properties of TiO2. Journal of Alloys and Compounds, 2013, 552, 274-278.	5.5	64
8	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
9	Rietveld refinement, Raman, optical, dielectric, MÃ¶ssbauer and magnetic characterization of superparamagnetic fcc-CaFe2O4 nanoparticles. Ceramics International, 2019, 45, 5837-5847.	4.8	58
10	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
11	Structural, optical and magnetic properties of Fe-doped CeO2 samples probed using X-ray photoelectron spectroscopy. Journal of Materials Science: Materials in Electronics, 2018, 29, 10141-10153.	2.2	55
12	Oxygen vacancies and F+ centre tailored room temperature ferromagnetic properties of CeO2 nanoparticles with Pr doping concentrations and annealing in hydrogen environment. Journal of Alloys and Compounds, 2020, 844, 156079.	5.5	48
13	Study of defect-induced ferromagnetism in hydrogenated anatase TiO2:Co. Journal of Applied Physics, 2010, 107, .	2.5	46
14	A comparative study on the influence of monovalent, divalent and trivalent doping on the structural, optical and photoluminescence properties of Zn0.96T0.04O (T: Li+, Ca2+& Gd3+) nanoparticles. Ceramics International, 2019, 45, 13472-13483.	4.8	46
15	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
16	Structural, cation distribution, optical and magnetic properties of quaternary Co0.4+xZn0.6-xFe2O4 (x = 0.0, 0.1 and 0.2) and Li doped quinary Co0.4+xZn0.5-xLi0.1Fe2O4 (x = 0.0, 0.05 and 0.1) nanoferrites. Journal of Alloys and Compounds, 2020, 828, 154388.	5.5	45
17	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
18	Oxygen vacancies mediated cooperative magnetism in ZnO nanocrystals: A d0 ferromagnetic case study. Vacuum, 2021, 184, 109921.	3.5	44

#	Article	IF	Citations
19	A close correlation between induced ferromagnetism and oxygen deficiency in Fe doped In2O3. Applied Surface Science, 2010, 257, 1053-1057.	6.1	40
20	Lattice defects and oxygen vacancies formulated ferromagnetic, luminescence, structural properties and band-gap tuning in Nd3+ substituted ZnO nanoparticles. Journal of Luminescence, 2022, 243, 118673.	3.1	39
21	Size dependent structural and magnetic behaviour of CaFe2O4. Current Applied Physics, 2013, 13, 830-835.	2.4	38
22	Irreversible magnetic behavior with temperature variation of Ni0.5Co0.5Fe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 507, 166861.	2.3	38
23	Defect-induced reversible ferromagnetism in hydrogenated ZnO:Co. Journal of Magnetism and Magnetic Materials, 2010, 322, 2187-2190.	2.3	31
24	Swift heavy ion irradiation induced modifications in magnetic and dielectric properties of Mnâ€“Ca ferrite. Applied Surface Science, 2012, 258, 4207-4211.	6.1	31
25	Investigating the mechanism of ferromagnetic exchange interaction in non-doped CeO2 with regard to defects and electronic structure. Materials Chemistry and Physics, 2012, 132, 534-539.	4.0	30
26	Synthesis, characterization and application of naÃ¯ve and nano-sized titanium dioxide as a photocatalyst for degradation of methylene blue. Journal of Saudi Chemical Society, 2015, 19, 528-536.	5.2	30
27	Degradation of Sunset Yellow FCF using copper loaded bentonite and H 2 O 2 as photo-Fenton like reagent. Arabian Journal of Chemistry, 2017, 10, S205-S211.	4.9	30
28	Structural and magnetic behavior of nanocrystalline Cr doped Co-Mg ferrite. Ceramics International, 2018, 44, 6747-6753.	4.8	30
29	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
30	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
31	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
32	Effect of thermal history on structural, microstructural properties and J â€“ E characteristics of CaCu3Ti4O12 polycrystalline ceramic. Materials Chemistry and Physics, 2018, 212, 343-350.	4.0	23
33	Room temperature ferromagnetism in pure and Co- and Fe-doped CeO‹sub›2‹/sub› dilute magnetic oxide: effect of oxygen vacancies and cation valence. Journal Physics D: Applied Physics, 2011, 44, 165002.	2.8	22
34	Magnetic behaviour of alloys in the series (Fe1â^'xCox)2P. Journal of Magnetism and Magnetic Materials, 2001, 237, 135-142.	2.3	21
35	Magnetic behaviour of nano-particles of Fe2.9Zn0.1O4. Pramana - Journal of Physics, 2003, 61, 617-624.	1.8	20
36	Room temperature ferromagnetism in Mn doped dilute ZnO semiconductor; an electronic structure study. Physica B: Condensed Matter, 2009, 404, 3275-3280.	2.7	20

#	Article	IF	Citations
37	A Ti L3,2 - and K- edge XANES and EXAFS study on Fe3+ - substituted CaCu3Ti4O12. Ceramics International, 2018, 44, 20716-20722.	4.8	19
38	Exploring the structural, elastic, optical, dielectric and magnetic characteristics of Ca2+ incorporated superparamagnetic Zn0.5â^'xCa0.1Co0.4+xFe2O4 (xÂ=Â0.0, 0.05 & 0.1) nanoferrites. Journal of Alloys and Compounds, 2021, 886, 161190.	5.5	19
39	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
40	Interplay of structural, optical, and magnetic properties of Ce1-xNdxO2-Î´ nanoparticles with electronic structure probed using X-ray absorption spectroscopy. Vacuum, 2020, 180, 109537.	3.5	17
41	Oxygen vacancies and defects induced room temperature ferromagnetic properties of pure and Fe-doped CeO2 nanomaterials investigated using X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2022, 254, 147140.	1.7	17
42	Magnetic structure of (Fe0.97Cr0.03)2P. Pramana - Journal of Physics, 1999, 52, 111-120.	1.8	15
43	Study of electronic structure and magnetization correlations in hydrogenated and vacuum annealed Ni doped ZnO. Journal of Applied Physics, 2011, 109, .	2.5	15
44	Low temperature field dependent magnetic study of the Zn0.5Co0.5Fe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2021, 536, 168102.	2.3	15
45	On nature of magnetism in ferromagnetic alloys (Fe_{1â^'x}Co_x)₂P. Journal Physics D: Applied Physics, 2008, 41, 055001.	2.8	13
46	Neutron diffraction study on the magnetic structure of (Fe0.70Co0.30)2P. Journal of Alloys and Compounds, 2007, 439, 13-17.	5.5	11
47	Influence of ageing on H-induced ferromagnetism in Zn1â^'xMxO (M=Co, Fe, Mn). Materials Letters, 2010, 64, 1846-1849.	2.6	11
48	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
49	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
50	Green synthesis and characterization of Mg0.93Na0.07O nanoparticles for antimicrobial activity, cytotoxicity and magnetic hyperthermia. Ceramics International, 2022, 48, 28355-28373.	4.8	11
51	Structural and magnetic properties of (Fe0.93Ni0.07)2P. Journal of Physics Condensed Matter, 2007, 19, 196217.	1.8	10
52	Structural, optical and magnetic properties of MCuSi4O10 (MÂ=ÂBa and Sr) blue pigments. Journal of Materials Science: Materials in Electronics, 2017, 28, 3716-3724.	2.2	10
53	Ca2+-substitution effect on the defect structural changes in the quadruple perovskite series Ca1Cu3Ti4O12 studied by positron annihilation and complementary methods. Ceramics International, 2021, 47, 2631-2640.	4.8	10
54	Magnetic Structure of (Fe0.93Ni0.07)2P. Physica Status Solidi A, 1999, 175, 693-697.	1.7	9

#	Article	IF	Citations
55	Magnetization enhancement in nanocrystalline Co0.4Zn0.6Fe2O4by 200ÂMeV Ag15+ion irradiation. Radiation Effects and Defects in Solids, 2011, 166, 558-563.	1.2	9
56	Synthesis, characterization and magnetism of novel Cobalt-Ã¥kermanite:Ca2CoSi2O7. Physica B: Condensed Matter, 2017, 511, 47-53.	2.7	9
57	Impact of hydrogenation on the structural, dielectric and magnetic properties of La0.5Ca0.5MnO3. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	9
58	Effect of Co and O defects on ferromagnetism in Co-doped ZnO: An X-ray absorption spectroscopic investigation. Physica B: Condensed Matter, 2018, 530, 1-6.	2.7	7
59	Optical and superparamagnetic behavior of ZnFe2O4 nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	7
60	Magnetization and neutron diffraction studies on FeCrP. Pramana - Journal of Physics, 2004, 63, 199-205.	1.8	6
61	Cation distribution and magnetic ordering evolution study on Ca1+Cu3-Ti4O12 (x = 0.0â€“0.2) perovskites. Solid State Sciences, 2020, 99, 106070.	3.2	6
62	Nanoporous carbon doped ceria bismuth oxide solid solution for photocatalytic water splitting. Sustainable Energy and Fuels, 2021, 5, 2545-2562.	4.9	6
63	Study of ferromagnetism in Mn doped ZnO dilute semiconductor system. Journal of Physics: Conference Series, 2009, 153, 012065.	0.4	5
64	200ÂMeV Ag⁺¹⁵ion irradiation-induced modifications in structural, magnetic and dielectric properties of nanoparticles of Cu_{0.2}Zn_{0.8}Fe₂O₄ferrite. Radiation Effects and Defects in Solids, 2013, 168, 537-546.	1.2	5
65	Influence of Li doping on structural, electrical, optical and magnetic properties of Zn0.96Mn0.04O nanocrystals. Journal of Materials Science: Materials in Electronics, 2017, 28, 454-462.	2.2	5
66	Exploring Magnetic Behaviour in La0.70Pr0.30Mn0.8Co0.2O3 Perovskite. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1183-1193.	1.8	5
67	Magnetism of (Fe0.93Ni0.07)2P studied using 57Fe MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2008, 184, 155-159.	0.5	4
68	ROOM TEMPERATURE FERROMAGNETISM IN Mn DOPED ZnO SEMICONDUCTOR. International Journal of Modern Physics B, 2009, 23, 2029-2040.	2.0	4
69	Magnetic behaviour of praseodymium substituted perovskites La[sub 1-x]Pr[sub x]Mn[sub 0.8]Co[sub 0.2]O[sub 3]. AIP Conference Proceedings, 2013, , .	0.4	4
70	Synthesis, photoluminescence and CIE chromaticity of nanocrystalline Zn1-xCaxO (x=0.02&0.05). AIP Conference Proceedings, 2019, , .	0.4	4
71	Synthesis, structural, dielectric and peculiar magnetic behaviour of Pb2Mn2Si2O9. Ceramics International, 2020, 46, 28716-28724.	4.8	4
72	Study of structural, optical and electronic structure properties of Sm2O3-ZnO nanomaterials. AIP Conference Proceedings, 2020, , .	0.4	4

#	Article	IF	Citations
73	Synthesis and rietveld refinement of MgO nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	4
74	Oxygen vacancy induced structural and domain size-controlled magnetic behavior of La0.67Ca0.33MnO3 perovskite. Journal of Materials Science: Materials in Electronics, 2022, 33, 6829-6841.	2.2	4
75	Effect of 200ÂMeV Ag+15ion irradiation on magnetic and dielectric properties of nanocrystalline Znâ€“Cr ferrite. Radiation Effects and Defects in Solids, 2013, 168, 525-531.	1.2	3
76	Influence of sodium substitution on structural and optical properties of Zn0.96Mn0.04O nanocrystals. , 2014, , .		3
77	Optical and magnetic behaviour of nanocrystalline 5% Ca doped ZnO. AIP Conference Proceedings, 2018, , .	0.4	3
78	Optical absorption and photoluminescence study of nanocrystalline Zn0.92M0.08O (M: Li & Gd). AIP Conference Proceedings, 2018, , .	0.4	3
79	Study of structural, optical and photoluminescence properties of Zn0.93Mg0.07O nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	3
80	Dielectric and superparamagnetic behavior of nanocrystalline CaFe2O4. AIP Conference Proceedings, 2020, , .	0.4	3
81	Synthesis and Characterization of Charge-Transfer Complexes of Î-Acceptor TCNQ with Various Phenols. Molecular Crystals and Liquid Crystals, 2007, 469, 99-110.	0.9	2
82	Pr Substitution at Y and Ba sites in YBCO (123) System. AIP Conference Proceedings, 2011, , .	0.4	2
83	Comment on â€œPreparation of transition metal phosphides using the facile solid state synthesisâ€• Journal of Alloys and Compounds, 2012, 515, 20-21.	5.5	2
84	Electronic and magnetic correlations in Mn doped ZnO nano-rods. , 2013, , .		2
85	Magnetization and XPS study of pristine bulk In[sub 2]O[sub 3]. AIP Conference Proceedings, 2013, , .	0.4	2
86	Magnetic and dielectric studies of multiferroic perovskite HoCr0.9TM0.1O3 (TM=Fe and Mn). Materials Research Express, 2019, 6, 056107.	1.6	2
87	Defect induced structural and Raman study of Nd-doped CeO2 nanomaterials. AIP Conference Proceedings, 2020, , .	0.4	2
88	Wasp-waisted like magnetic behavior of nanocrystalline CoFe2O4 at 5K. AIP Conference Proceedings, 2020, , .	0.4	2
89	Synthesis and optical properties of anatase-TiO2 nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	2
90	Synthesis, structural, electrical and magnetic characterization of apatite-type lanthanide silicates. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2

#	Article	IF	Citations
91	Neutron diffraction study on the magnetic structure of (Fe0.90Cr0.03Ni0.07)2P. Journal of Alloys and Compounds, 2006, 426, 51-56.	5.5	1
92	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
93	Corrigendum to â€œDefect-induced reversible ferromagnetism in Fe-doped ZnO semiconductor: An electronic structure and magnetization studyâ€•[Mater. Chem. Phys. 123 (2010) 678â€“684]. Materials Chemistry and Physics, 2011, 126, 998.	4.0	1
94	Synthesis, Structural and Magnetization Studies of Nanocrystalline Cu[sub 1â^'x]Zn[sub x]Fe[sub 2]O[sub 4]. , 2011, , .		1
95	Preparation and Magnetic Studies of Mn Substituted Analogues of BiFeO[sub 3]. , 2011, , .		1
96	Influence of annealing on the structural, optical and photoluminescence properties of TiO2 nanoparticles. AIP Conference Proceedings, 2020, , .	0.4	1
97	Magnetism of (Fe0.93Ni0.07)2P studied using 57Fe MÃ¶ssbauer spectroscopy. , 2008, , 569-573.		0
98	Application of Rietveld Method to the Structural Characteristics of some Bulk and Nanocrystalline Materials. , 2011, , .		0
99	Influence of Co Doping on Structural and Magnetic Properties of Fe₂P. Solid State Phenomena, 2011, 171, 93-106.	0.3	0
100	Synthesis and size dependent magnetic behaviour of nanocrystalline Cu[sub 0.2]Ni[sub 0.8]Fe[sub 2]O[sub 4] ferrite. , 2011, , .		0
101	Structural, optical and magnetic behaviour of nanocrystalline Volborthite. AIP Conference Proceedings, 2016, , .	0.4	0
102	Changes in optical behaviour of iron pyritohedron upon microwave treatment. AIP Conference Proceedings, 2016, , .	0.4	0