Sagar E Shirsath

List of Publications by Year
in descending order

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283 papers	10,848 citations	22132 59 h-index	54882 84 g-index
288 all docs	288 docs citations	288 times ranked	5189 citing authors

#	Article	IF	Citations
1	Structural investigations and magnetic properties of cobalt ferrite nanoparticles prepared by solâ€“gel auto combustion method. Solid State Communications, 2008, 147, 479-483.	0.9	225
2	Structural and magnetic properties of In3+ substituted NiFe2O4. Materials Chemistry and Physics, 2009, 117, 163-168.	2.0	214
3	Structural, electrical and magnetic properties of Coâ€“Cu ferrite nanoparticles. Journal of Alloys and Compounds, 2012, 518, 11-18.	2.8	184
4	Doping effect of Mn2+ on the magnetic behavior in Niâ€“Zn ferrite nanoparticles prepared by solâ€“gel auto-combustion. Journal of Physics and Chemistry of Solids, 2010, 71, 1669-1675.	1.9	172
5	Effect of Zn substitution on magnetic properties of nanocrystalline cobalt ferrite. Journal of Applied Physics, 2010, 108, .	1.1	158
6	Effect of zinc substitution on structural and elastic properties of cobalt ferrite. Journal of Alloys and Compounds, 2009, 488, 199-203.	2.8	150
7	Improved magnetic properties of Cr3+ doped SrFe12O19 synthesized via microwave hydrothermal route. Materials Research Bulletin, 2015, 63, 58-66.	2.7	150
8	Switching of magnetic easy-axis using crystal orientation for large perpendicular coercivity in CoFe2O4 thin film. Scientific Reports, 2016, 6, 30074.	1.6	148
9	Rietveld structure refinement, cation distribution and magnetic properties of Al3+ substituted NiFe2O4 nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	141
10	Magneto-optical and microstructural properties of spinel cubic copper ferrites with Li-Al co-substitution. Ceramics International, 2018, 44, 14242-14250.	2.3	138
11	Effect of sintering temperature and the particle size on the structural and magnetic properties of nanocrystalline Li0.5Fe2.5O4. Journal of Magnetism and Magnetic Materials, 2011, 323, 3104-3108.	1.0	135
12	Self-ignited high temperature synthesis and enhanced super-exchange interactions of Ho³⁺â€“Mn²⁺â€“Fe³⁺â€“O^{2â^’}ferromagnetic nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 2347-2357.	1.3	134
13	Structural, magnetic and dielectric properties of Co-Zr substituted M-type calcium hexagonal ferrite nanoparticles in the presence of Î±-Fe2O3 phase. Ceramics International, 2018, 44, 17812-17823.	2.3	131
14	Electrical and magnetic properties of Cr3+ substituted nanocrystalline nickel ferrite. Journal of Applied Physics, 2009, 106, .	1.1	130
15	Influence of rare earth ion doping (Ce and Dy) on electrical and magnetic properties of cobalt ferrites. Journal of Magnetism and Magnetic Materials, 2018, 449, 319-327.	1.0	130
16	Autocombustion High-Temperature Synthesis, Structural, and Magnetic Properties of CoCr_xFe_{2â€“x}O₄ (0 â‰¤ x â‰¤ 1.0). Journal of Physical Chemistry C, 2011, 115, 20905-20912.	1.5	119
17	Preparation and characterization chemistry of nano-crystalline Niâ€“Cuâ€“Zn ferrite. Journal of Alloys and Compounds, 2013, 549, 348-357.	2.8	114
18	Structural, optical and magnetic properties of Tm3+ substituted cobalt spinel ferrites synthesized via sonochemical approach. Ultrasonics Sonochemistry, 2019, 54, 1-10.	3.8	108

#	Article	IF	Citations
19	Synthesis and characterizations of Ni2+ substituted cobalt ferrite nanoparticles. Materials Chemistry and Physics, 2013, 139, 364-374.	2.0	105
20	Electrical and switching properties of NiAlxFe2â^'xO4 ferrites synthesized by chemical method. Physica B: Condensed Matter, 2011, 406, 663-668.	1.3	102
21	Influence of Ce4+ ions on the structural and magnetic properties of NiFe2O4. Journal of Applied Physics, 2011, 110, .	1.1	101
22	Influence of Mg substitution on structural, magnetic and dielectric properties of X-type barium zinc hexaferrites Ba2Zn2-xMgxFe28O46. Journal of Alloys and Compounds, 2018, 741, 377-391.	2.8	100
23	Sonochemical synthesis and physical properties of Co0.3Ni0.5Mn0.2EuxFe2â^'xO4 nano-spinel ferrites. Ultrasonics Sonochemistry, 2019, 58, 104654.	3.8	99
24	Investigation of structural and physical properties of Eu3+ ions substituted Ni0.4Cu0.2Zn0.4Fe2O4 spinel ferrite nanoparticles prepared via sonochemical approach. Results in Physics, 2020, 17, 103061.	2.0	99
25	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. Nano Letters, 2020, 20, 1262-1271.	4.5	95
26	Elastic properties of nanocrystalline aluminum substituted nickel ferrites prepared by co-precipitation method. Journal of Molecular Structure, 2013, 1038, 40-44.	1.8	94
27	Enhanced magnetic properties of Dy3+ substituted Ni-Cu-Zn ferrite nanoparticles. Applied Physics Letters, 2012, 100, .	1.5	93
28	Crystallographic, magnetic and electrical properties of Ni0.5Cu0.25Zn0.25LaxFe2â^'xO4 nanoparticles fabricated by solâ€“gel method. Journal of Alloys and Compounds, 2013, 549, 213-220.	2.8	93
29	XRD, EDX, FTIR and ESR spectroscopic studies of co-precipitated Mnâ€“substituted Znâ€“ferrite nanoparticles. Ceramics International, 2019, 45, 8037-8044.	2.3	93
30	Impact of La³⁺ and Y³⁺ ion substitutions on structural, magnetic and microwave properties of Ni_{0.3}Cu_{0.3}Zn_{0.4}Fe₂O₄ nanospinel ferrites synthesized via sonochemical route. RSC Advances, 2019, 9, 30671-30684.	1.7	90
31	Ni0.4Cu0.2Zn0.4TbxFe2-xO4 nanospinel ferrites: Ultrasonic synthesis and physical properties. Ultrasonics Sonochemistry, 2019, 59, 104757.	3.8	89
32	Investigation of structural, morphological, optical, magnetic and dielectric properties of (1-x)BaTiO3/xSr0.92Ca0.04Mg0.04Fe12O19 composites. Journal of Magnetism and Magnetic Materials, 2020, 510, 166933.	1.0	89
33	Elucidation of phase evolution, microstructural, MÃ¶ssbauer and magnetic properties of Co2+Al3+ doped M-type Ba Sr hexaferrites synthesized by a ceramic method. Journal of Alloys and Compounds, 2017, 695, 1112-1121.	2.8	86
34	Cation distribution by Rietveld, spectral and magnetic studies ofÂchromium-substituted nickel ferrites. Applied Physics A: Materials Science and Processing, 2009, 95, 429-434.	1.1	84
35	Substitutional effect of Cr3+ ions on the properties of Mgâ€“Zn ferrite nanoparticles. Physica B: Condensed Matter, 2012, 407, 4338-4346.	1.3	84
36	Chemical synthesis, structural and magnetic properties of nano-structured Coâ€“Znâ€“Feâ€“Cr ferrite. Journal of Alloys and Compounds, 2011, 509, 5055-5060.	2.8	81

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37	Structural, magnetic, optical properties and cation distribution of nanosized Ni0.3Cu0.3Zn0.4TmxFe2â^'xO4 (0.0â€¯â‰¤â€¯xâ€¯â‰¤â€¯0.10) spinel ferrites synthesized by ultrasound irradiation. Ultrasonics Sonochemistry, 2019, 57, 203-211.	3.8	81
38	Facile one-step hydrothermal synthesis of SnO2 microspheres with oxygen vacancies for superior ethanol sensor. Journal of Alloys and Compounds, 2020, 814, 152266.	2.8	79
39	Transformation of hexagonal to mixed spinel crystal structure and magnetic properties of Co 2+ substituted BaFe 12 O 19. Journal of Magnetism and Magnetic Materials, 2016, 398, 32-37.	1.0	77
40	Au quantum dots engineered room temperature crystallization and magnetic anisotropy in CoFe₂O₄ thin films. Nanoscale Horizons, 2019, 4, 434-444.	4.1	77
41	Sonochemical synthesis of Eu3+ substituted CoFe2O4 nanoparticles and their structural, optical and magnetic properties. Ultrasonics Sonochemistry, 2019, 58, 104621.	3.8	77
42	Impact of larger rare earth Pr3+ ions on the physical properties of chemically derived PrxCoFe2â^'xO4 nanoparticles. Chemical Physics, 2014, 429, 20-26.	0.9	75
43	Electric, dielectric and ac electrical conductivity study of nanocrystalline cobalt substituted Mgâ€“Mn ferrites synthesized via solution combustion technique. Journal of Molecular Structure, 2013, 1051, 336-344.	1.8	72
44	Structure refinement, cation site location, spectral and elastic properties of Zn2+ substituted NiFe2O4. Journal of Molecular Structure, 2012, 1024, 77-83.	1.8	70
45	Cation distribution study of nanocrystalline NiFe_{2â^'x}Cr_xO₄ferrite by XRD, magnetization and MÃ¶ssbauer spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 347-352.	0.8	70
46	Chemical tuning of structure formation and combustion process in CoDy0.1Fe1.9O4 nanoparticles: influence@pH. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	69
47	Structural, morphological, optical, cation distribution and MÃ¶ssbauer analysis of Bi3+ substituted strontium hexaferrite. Ceramics International, 2016, 42, 8627-8635.	2.3	69
48	Structural and magnetic properties of CuFe2O4 ferrite nanoparticles synthesized by cow urine assisted combustion method. Journal of Magnetism and Magnetic Materials, 2019, 484, 120-125.	1.0	69
49	Redistribution of cations and enhancement in magnetic properties of solâ€“gel synthesized Cu0.7â^'x Co x Zn0.3Fe2O4 (0Ââ‰¤ÂxÂâ‰¤Â0.5). Journal of Sol-Gel Science and Technology, 2011, 58, 70-79.	1.1	67
50	Crystal chemistry and single-phase synthesis of Gd³⁺substituted Coâ€“Zn ferrite nanoparticles for enhanced magnetic properties. RSC Advances, 2018, 8, 25258-25267.	1.7	67
51	Structural investigation and hyperfine interactions of BaBi x La x Fe 12â^'2x O 19 (0.0â‰¤ x â‰¤0.5) hexaferrites. Ceramics International, 2016, 42, 3380-3387.	2.3	66
52	Synthesis of Low Coercive BaFe12O19 Hexaferrite for Microwave Applications in Low-Temperature Cofired Ceramic. Journal of Electronic Materials, 2013, 42, 761-768.	1.0	65
53	Ce 3+ incorporated structural and magnetic properties of M type barium hexaferrites. Journal of Magnetism and Magnetic Materials, 2015, 378, 59-63.	1.0	64
54	Structural, magneto-optical properties and cation distribution of SrBi x La x Y x Fe 12â^'3x O 19 (0.0 â‰¤ x â‰¤) Tj ETQq0 0 0 rgBT /Over	2.7	64

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55	Structural, magnetic, optical properties and cation distribution of nanosized Co0.7Zn0.3TmxFe2â^'xO4 (0.0â€ â‰¤â€ xâ€ â‰¤â€ 0.04) spinel ferrites synthesized by ultrasonic irradiation. Ultrasonics Sonochemistry, 2019, 58, 104638.	7.5	64
56	Superparamagnetic behaviour and evidence of weakening in super-exchange interactions with the substitution of Gd3+ ions in the Mgâ€“Mn nanoferrite matrix. Materials Research Bulletin, 2015, 63, 216-225.	2.7	63
57	Infrared spectral and elastic moduli study of NiFe2â^'xCrxO4 nanocrystalline ferrites. Journal of Magnetism and Magnetic Materials, 2013, 325, 107-111.	1.0	62
58	Random site occupancy induced disordered NÃ©el-type collinear spin alignment in heterovalent Zn²⁺â€“Ti⁴⁺ ion substituted CoFe₂O₄. RSC Advances, 2015, 5, 91482-91492.	1.7	62
59	MÃ¶ssbauer, Raman, and Magnetoresistance Study of Aluminum-Based Iron Oxide Thin Films. Journal of Physical Chemistry C, 2011, 115, 3731-3736.	1.5	61
60	Study of magnetic behavior in co-precipitated Niâ€“Zn ferrite nanoparticles and their potential use for gas sensor applications. Journal of Magnetism and Magnetic Materials, 2020, 502, 166534.	1.0	58
61	Rietveld refinement and switching properties of Cr3+ substituted NiFe2O4 ferrites. Materials Letters, 2010, 64, 722-724.	1.3	57
62	Influence of gadolinium (Gd3+) ion substitution on structural, magnetic and electrical properties of cobalt ferrites. Journal of Alloys and Compounds, 2020, 840, 155669.	2.8	57
63	Fabrication of Co0.5Ni0.5CrxFe2â^'xO4 materials via solâ€“gel method and their characterizations. Journal of Magnetism and Magnetic Materials, 2013, 327, 167-171.	1.0	56
64	Gamma irradiation induced damage creation on the cation distribution, structural and magnetic properties in Niâ€“Zn ferrite. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2706-2711.	0.6	55
65	Solâ€“gel synthesis of Cr3+ substituted Li0.5Fe2.5O4: Cation distribution, structural and magnetic properties. Materials Chemistry and Physics, 2011, 126, 755-760.	2.0	55
66	Influence of Cr3+ ion on the structural, ac conductivity and magnetic properties of nanocrystalline Niâ€“Mg ferrite. Ceramics International, 2013, 39, 1807-1819.	2.3	55
67	Exploring the structural, MÃ¶ssbauer and dielectric properties of Co2+ incorporated Mg0.5Zn0.5â^'xCoxFe2O4 nanocrystalline ferrite. Journal of Magnetism and Magnetic Materials, 2014, 360, 21-33.	1.0	55
68	Zn_xFe_{3â^'x}O₄ (0.01 â‰¤ x â‰¤ 0.8) nanoparticles for controlled magnetic hyperthermia application. New Journal of Chemistry, 2018, 42, 7144-7153.	1.4	55
69	Structural and magnetic characterizations of Mnï£¿Nïï£¿Zn ferrite nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2355-2363.	0.8	54
70	Self-propagating high temperature synthesis, structural morphology and magnetic interactions in rare earth Ho3+ doped CoFe2O4 nanoparticles. Journal of Alloys and Compounds, 2014, 604, 204-210.	2.8	53
71	Magnetic properties, anticancer and antibacterial effectiveness of sonochemically produced Ce3+/Dy3+ co-activated Mn-Zn nanospinel ferrites. Arabian Journal of Chemistry, 2020, 13, 7403-7417.	2.3	53
72	Ferrites Obtained by Sol-Gel Method. , 2018, , 695-735.		52

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73	Remarkable influence of Ce4+ ions on the electronic conduction of Ni1â^'2xCexFe2O4. Scripta Materialia, 2011, 64, 773-776.	2.6	51
74	Structural properties and magnetic interactions in Ni0.5Mg0.5Fe2â^'xCrxO4 (0 â‰¤ x â‰¤ 1) ferrite nanoparticles. Powder Technology, 2012, 229, 37-44.	2.1	51
75	X-ray diffraction based Williamsonâ€“Hall analysis and rietveld refinement for strain mechanism in Mgâ€“Mn co-substituted CdFe2O4 nanoparticles. Physica B: Condensed Matter, 2021, 614, 413054.	1.3	51
76	Enhanced reflection loss characteristics of substituted barium ferrite/functionalized multi-walled carbon nanotube nanocomposites. Journal of Applied Physics, 2011, 109, .	1.1	50
77	Synthesis of Dy-Y co-substituted manganeseâ€‘zinc spinel nanoferrites induced anti-bacterial and anti-cancer activities: Comparison between sonochemical and sol-gel auto-combustion methods. Materials Science and Engineering C, 2020, 116, 111186.	3.8	50
78	Magnetic interactions and dielectric dispersion in Mg substituted M-type Sr-Cu hexaferrite nanoparticles prepared using one step solvent free synthesis technique. Ceramics International, 2018, 44, 4426-4435.	2.3	49
79	Single-Crystal-like Textured Growth of CoFe₂O₄ Thin Film on an Amorphous Substrate: A Self-Bilayer Approach. ACS Applied Electronic Materials, 2020, 2, 3650-3657.	2.0	49
80	Ceâ€“Dy substituted barium hexaferrite nanoparticles with large coercivity for permanent magnet and microwave absorber application. Journal Physics D: Applied Physics, 2021, 54, 294001.	1.3	49
81	Structural and electric properties of zinc substituted NiFe2O4 nanoparticles prepared by co-precipitation method. Physica B: Condensed Matter, 2010, 405, 2610-2614.	1.3	48
82	A comparison between magnetic and reflection loss characteristics of substituted strontium ferrite and nanocomposites of ferrite/carbon nanotubes. Journal of Applied Physics, 2012, 111, .	1.1	48
83	Manganese ferrite prepared using reverse micelle process: Structural and magnetic properties characterization. Journal of Alloys and Compounds, 2015, 642, 70-77.	2.8	46
84	Permeability and magnetic interactions in Co2+ substituted Li0.5Fe2.5O4 alloys. Journal of Alloys and Compounds, 2013, 575, 145-151.	2.8	45
85	Structural, optical and magnetic properties of Tb3+ substituted Co nanoferrites prepared via sonochemical approach. Ceramics International, 2019, 45, 22538-22546.	2.3	45
86	Structural and magnetic properties of glass-ceramics containing silver and iron oxide. Materials Chemistry and Physics, 2012, 133, 144-150.	2.0	44
87	Magnetic field induced polarization and magnetoelectric effect in Na0.5Bi0.5TiO3â€“Co0.75Zn0.25Cr0.2Fe1.8O4 multiferroic composite. Journal of Magnetism and Magnetic Materials, 2019, 471, 388-393.	1.0	44
88	Spectroscopic, elastic and dielectric properties of Ho3+ substituted Co-Zn ferrites synthesized by sol-gel method. Ceramics International, 2016, 42, 16096-16102.	2.3	43
89	Structural, mechanical, dielectric properties and magnetic interactions in Dy³⁺-substituted Coâ€“Cuâ€“Zn nanoferrites. RSC Advances, 2020, 10, 27911-27922.	1.7	43
90	Structural, optical, elastic and magnetic properties of Ce and Dy doped cobalt ferrites. Journal of Alloys and Compounds, 2020, 834, 155089.	2.8	43

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91	Synthesis and study of nanocrystalline Niâ€“Cuâ€“Zn ferrites prepared by oxalate based precursor method. Journal of Alloys and Compounds, 2011, 509, 7004-7008.	2.8	42
92	Magneto-electric coupling and improved dielectric constant of BaTiO3 and Fe-rich (Co0.7Fe2.3O4) ferrite nano-composites. Journal of Magnetism and Magnetic Materials, 2018, 465, 508-514.	1.0	42
93	Polycrystalline to preferred-(100) single crystal texture phase transformation of yttrium iron garnet nanoparticles. Nanoscale Advances, 2019, 1, 403-413.	2.2	42
94	Impact of Tm3+ and Tb3+ Rare Earth Cations Substitution on the Structure and Magnetic Parameters of Co-Ni Nanospinel Ferrite. Nanomaterials, 2020, 10, 2384.	1.9	42
95	Coâ€“Al-substituted strontium hexaferrite for rare earth free permanent magnet and microwave absorber application. Journal Physics D: Applied Physics, 2021, 54, 024001.	1.3	42
96	Studies on the activation energy from the ac conductivity measurements of rubber ferrite composites containing manganese zinc ferrite. Physica B: Condensed Matter, 2012, 407, 4097-4103.	1.3	41
97	Electrical resistivity and MÃ¶ssbauer studies of Cr substituted Co nano ferrites. Journal of Alloys and Compounds, 2017, 694, 366-374.	2.8	41
98	STRUCTURAL PROPERTIES AND CATION DISTRIBUTION OF Coâ€“Zn NANOFERRITES. International Journal of Modern Physics B, 2009, 23, 5629-5638.	1.0	40
99	Low temperature synthesis of Li0.5ZrxCoxFe2.5â^'2xO4 powder and their characterizations. Powder Technology, 2013, 235, 485-492.	2.1	40
100	Impact of Sm³⁺ and Er³⁺ Cations on the Structural, Optical, and Magnetic Traits of Spinel Cobalt Ferrite Nanoparticles: Comparison Investigation. ACS Omega, 2022, 7, 6292-6301.	1.6	40
101	Phase evaluation of Li+ substituted CoFe2O4 nanoparticles, their characterizations and magnetic properties. Journal of Magnetism and Magnetic Materials, 2014, 355, 70-75.	1.0	39
102	Elastic behaviour of Cr3+ substituted Coâ€“Zn ferrites. Journal of Magnetism and Magnetic Materials, 2014, 350, 39-41.	1.0	39
103	Dielectric properties, cationic distribution calculation and hyperfine interactions of La3+ and Bi3+ doped strontium hexaferrites. Ceramics International, 2016, 42, 9100-9115.	2.3	39
104	(BaTiO₃)_{1â€x} + (Co_{0.5}Ni_{0.5}Nb_{0.06}Fe_{1.94}O₄)_x nanocomposites: Structure, morphology, magnetic and dielectric properties. Journal of the American Ceramic Society, 2021, 104, 5648-5658.	1.9	39
105	Biosynthesis effect of Moringa oleifera leaf extract on structural and magnetic properties of Zn doped Ca-Mg nano-spinel ferrites. Arabian Journal of Chemistry, 2021, 14, 103261.	2.3	39
106	Site occupancies of Coâ€“Mgâ€“Crâ€“Fe ions and their impact on the properties of Co0.5Mg0.5CrxFe2â^'xO4. Journal of Alloys and Compounds, 2013, 552, 443-450.	2.8	38
107	Frequency, temperature and In3+ dependent electrical conduction in NiFe2O4 powder. Powder Technology, 2011, 212, 218-223.	2.1	37
108	Permeability and magnetic properties of Al3+ substituted Ni0.7Zn0.3Fe2O4 nanoparticles. Journal of Applied Physics, 2012, 112, .	1.1	37

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109	Controllable dynamics of oxygen vacancies through extrinsic doping for superior catalytic activities. Nanoscale, 2018, 10, 18576-18585.	2.8	37
110	Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm3+ substituted nanocrystalline Co-Zn ferrites. Journal of Rare Earths, 2020, 38, 1069-1075.	2.5	37
111	Sonochemical synthesis of Dy3+ substituted Mn0.5Zn0.5Fe2â^'xO4 nanoparticles: Structural, magnetic and optical characterizations. Ultrasonics Sonochemistry, 2020, 61, 104836.	3.8	37
112	Influence of Co4+-Ca2+ substitution on structural, microstructure, magnetic, electrical and impedance characteristics of M-type bariumâ€“strontium hexagonal ferrites. Ceramics International, 2020, 46, 24816-24830.	2.3	36
113	Role of Cr3+ ions on the microstructure development, and magnetic phase evolution of Ni0.7Zn0.3Fe2O4 ferrite nanoparticles. Journal of Alloys and Compounds, 2012, 512, 316-322.	2.8	34
114	Frequency and temperature dependent electrical properties of Ni0.7Zn0.3Cr Fe2â^'O4 (0 â‰¤xâ‰¤ 0.5). Ceramics International, 2012, 38, 2963-2970.	2.3	34
115	Synthesis and characterization of oleylamine capped MnxFe1-xFe2O4 nanocomposite: Magneto-optical properties, cation distribution and hyperfine interactions. Journal of Alloys and Compounds, 2016, 688, 675-686.	2.8	34
116	High temperature dielectric studies of indium-substituted NiCuZn nanoferrites. Journal of Physics and Chemistry of Solids, 2018, 112, 29-36.	1.9	34
117	Surprisingly high magneto-electric coupling in cubic Co0.7Fe2.3O4-SrTiO3 nano-composites. Journal of Alloys and Compounds, 2019, 773, 564-570.	2.8	34
118	Sol-gel auto-combustion synthesis of Li3xMnFe2â^'xO4 and their characterizations. Journal of Applied Physics, 2012, 112, .	1.1	33
119	Preparation and characterization of Co2+ substituted Liâ€“Dy ferrite ceramics. Ceramics International, 2013, 39, 5227-5234.	2.3	33
120	Self-ignited synthesis of Mgâ€“Gdâ€“Mn nanoferrites and impact of cation distribution on the dielectric properties. Ceramics International, 2014, 40, 14509-14516.	2.3	33
121	Multiferroic properties of microwave sintered BaTiO3â€“SrFe12O19 composites. Physica B: Condensed Matter, 2014, 448, 323-326.	1.3	33
122	Effect of Nd-Y co-substitution on structural, magnetic, optical and microwave properties of NiCuZn nanospinel ferrites. Journal of Materials Research and Technology, 2020, 9, 11278-11290.	2.6	33
123	Study of structural, electrical and magnetic properties of Cr doped Niâ€“Mg ferrite nanoparticle. Journal of Alloys and Compounds, 2014, 602, 150-156.	2.8	32
124	Influence of Gd 3+ ion substitution on the MnCrFeO 4 for their nanoparticle shape formation and magnetic properties. Journal of Alloys and Compounds, 2016, 657, 487-494.	2.8	32
125	Modifications in structural, cation distribution and magnetic properties of 60Co gamma irradiated Li-ferrite. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2026-2031.	0.6	31
126	Magnetic properties and MÃ¶ssbauer spectroscopy of Cu-Mn substituted BaFe12O19 hexaferrites. Ceramics International, 2017, 43, 15486-15492.	2.3	31

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127	Magnetic and dielectric properties of Zn substituted cobalt oxide nanoparticles. Ceramics International, 2019, 45, 16512-16520.	2.3	31
128	Influence of samarium doping on structural, elastic, magnetic, dielectric, and electrical properties of nanocrystalline cobalt ferrite. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	31
129	Structural and magnetic properties of nanocrystalline equi-atomic spinel high-entropy oxide (AlCoFeMnNi)3O4 synthesised by microwave assisted co-precipitation technique. Journal of Alloys and Compounds, 2021, 878, 160269.	2.8	31
130	Investigation of structural, magnetic and dielectric properties of gallium substituted Z-type Sr3Co2-Ga Fe24O41 hexaferrites for microwave absorbers. Journal of Alloys and Compounds, 2020, 822, 153470.	2.8	30
131	Effect of heating temperature on structural, magnetic, and dielectric properties of Magnesium ferrites prepared in the presence of Solanum Lycopersicum fruit extract. Journal of Materials Science: Materials in Electronics, 2020, 31, 18445-18463.	1.1	30
132	Polyol synthesis of Mn3+ substituted Fe3O4 nanoparticles: Cation distribution, structural and electrical properties. Superlattices and Microstructures, 2015, 85, 747-760.	1.4	29
133	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO₃)₃] Sodium Battery Insertion Material: Structural and Electrochemical Insights. Inorganic Chemistry, 2017, 56, 5918-5929.	1.9	29
134	Design and development of Ga-substituted Z-type hexaferrites for microwave absorber applications: MÃ¶ssbauer, static and dynamic properties. Ceramics International, 2021, 47, 1145-1162.	2.3	29
135	Cation distribution investigation and characterizations of Ni1âˆ’xCdxFe2O4 nanoparticles synthesized by citrate gel process. Journal of Molecular Structure, 2013, 1032, 105-110.	1.8	28
136	Electrical properties and hyperfine interactions of boron doped Fe3O4 nanoparticles. Superlattices and Microstructures, 2015, 88, 450-466.	1.4	28
137	Spin glass behavior and enhanced but frustrated magnetization in Ho³⁺ substituted Coâ€“Zn ferrite interacting nanoparticles. RSC Advances, 2016, 6, 76590-76599.	1.7	28
138	Structural and magnetic investigations: Study of magnetocrystalline anisotropy and magnetic behavior of 0.1% Cu2+ substituted Niâ€“Zn ferrite nanoparticles. Ceramics International, 2018, 44, 1193-1200.	2.3	28
139	Studies of structural, magnetic and dielectric properties of X-type Barium Zinc hexaferrite Ba2Zn2Fe28O46 powder prepared by combustion treatment method using ginger root extract as a green reducing agent. Journal of Alloys and Compounds, 2020, 842, 155120.	2.8	28
140	Electrical and dielectric properties of rare earth substituted hard-soft ferrite (Co0.5Ni0.5Ga0.01Gd0.01Fe1.98O4)x/(ZnFe2O4)y nanocomposites. Journal of Materials Research and Technology, 2021, 15, 969-983.	2.6	28
141	MÃ¶ssbauer spectroscopy and magnetic characteristics of Zn1âˆ’xCoxFe2O4 (xâ€‰=â€‰0âˆ’1) nanoparticles. Journal of Applied Physics, 2011, 109, 07A512.	1.1	27
142	Study of structural and magnetic properties of (Coâ€“Cu)Fe2O4/PANI composites. Materials Chemistry and Physics, 2013, 141, 406-415.	2.0	27
143	Controlled synthesis and enhanced tunnelling magnetoresistance in oriented Fe₃O₄ nanorod assemblies. Journal Physics D: Applied Physics, 2018, 51, 085002.	1.3	27
144	Investigation on structural, hysteresis, MÃ¶ssbauer properties and electrical parameters of lightly Erbium substituted X-type Ba2Co2Er Fe28-O46 hexaferrites. Ceramics International, 2020, 46, 8209-8226.	2.3	27

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213	[illegible] xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2472" altimg="si11.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">0.5</mml:mi></mml:mrow></mml:msub></mml:math>Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2480" altimg="si11.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">0.5</mml:mi>	1.9	11
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