Sagar E Shirsath

List of Publications by Citations

270 papers	7,267 citations	49 h-index	69 g-index
288 ext. papers	8,903 ext. citations	3.9 avg, IF	6.34 L-index

#	Paper	IF	Citations
270	Structural investigations and magnetic properties of cobalt ferrite nanoparticles prepared by sol□gel auto combustion method. *Solid State Communications*, **2008**, 147, 479-483	1.6	191
269	Structural and magnetic properties of In3+ substituted NiFe2O4. *Materials Chemistry and Physics*, **2009**, 117, 163-168	4.4	179
268	Structural, electrical and magnetic properties of Co□u ferrite nanoparticles. *Journal of Alloys and Compounds*, **2012**, 518, 11-18	5.7	142
267	Doping effect of Mn2+ on the magnetic behavior in Ni□n ferrite nanoparticles prepared by sol□gel auto-combustion. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 1669-1675	3.9	137
266	Effect of Zn substitution on magnetic properties of nanocrystalline cobalt ferrite. *Journal of Applied Physics*, **2010**, 108, 093920	2.5	131
265	Rietveld structure refinement, cation distribution and magnetic properties of Al3+ substituted NiFe2O4 nanoparticles. *Journal of Applied Physics*, **2011**, 109, 053909	2.5	122
264	Effect of zinc substitution on structural and elastic properties of cobalt ferrite. *Journal of Alloys and Compounds*, **2009**, 488, 199-203	5.7	117
263	Electrical and magnetic properties of Cr3+ substituted nanocrystalline nickel ferrite. *Journal of Applied Physics*, **2009**, 106, 023914	2.5	115
262	Improved magnetic properties of Cr3+ doped SrFe12O19 synthesized via microwave hydrothermal route. *Materials Research Bulletin*, **2015**, 63, 58-66	5.1	113
261	Self-ignited high temperature synthesis and enhanced super-exchange interactions of Ho(3+)-Mn(2+)-Fe(3+)-O(2-) ferromagnetic nanoparticles. *Physical Chemistry Chemical Physics*, **2014**, 16, 2347-57	3.6	112
260	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	2.8	112
259	Magneto-optical and microstructural properties of spinel cubic copper ferrites with Li-Al co-substitution. *Ceramics International*, **2018**, 44, 14242-14250	5.1	95
258	Switching of magnetic easy-axis using crystal orientation for large perpendicular coercivity in CoFe2O4 thin film. *Scientific Reports*, **2016**, 6, 30074	4.9	93
257	Preparation and characterization chemistry of nano-crystalline Ni□u□n ferrite. *Journal of Alloys and Compounds*, **2013**, 549, 348-357	5.7	90
256	Autocombustion High-Temperature Synthesis, Structural, and Magnetic Properties of CoCrxFe2□O4 (0 □x □1.0). *Journal of Physical Chemistry C*, **2011**, 115, 20905-20912	3.8	89
255	Influence of Ce4+ ions on the structural and magnetic properties of NiFe2O4. *Journal of Applied Physics*, **2011**, 110, 013914	2.5	89
254	Enhanced magnetic properties of Dy3+ substituted Ni-Cu-Zn ferrite nanoparticles. *Applied Physics Letters*, **2012**, 100, 042407	3.4	87

253	Electrical and switching properties of NiAlxFe2−xO4 ferrites synthesized by chemical method. *Physica B: Condensed Matter*, **2011**, 406, 663-668	2.8	86
252	Structural, magnetic and dielectric properties of Co-Zr substituted M-type calcium hexagonal ferrite nanoparticles in the presence of α-Fe2O3 phase. *Ceramics International*, **2018**, 44, 17812-17823	5.1	85
251	Synthesis and characterizations of Ni2+ substituted cobalt ferrite nanoparticles. *Materials Chemistry and Physics*, **2013**, 139, 364-374	4.4	78
250	Cation distribution by Rietveld, spectral and magnetic studies of chromium-substituted nickel ferrites. *Applied Physics A: Materials Science and Processing*, **2009**, 95, 429-434	2.6	77
249	Crystallographic, magnetic and electrical properties of Ni0.5Cu0.25Zn0.25LaxFe2−xO4 nanoparticles fabricated by sol–gel method. *Journal of Alloys and Compounds*, **2013**, 549, 213-220	5.7	74
248	Structural, optical and magnetic properties of Tm substituted cobalt spinel ferrites synthesized via sonochemical approach. *Ultrasonics Sonochemistry*, **2019**, 54, 1-10	8.9	71
247	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	2.8	68
246	Sonochemical synthesis and physical properties of CoNiMnEuFeO nano-spinel ferrites. *Ultrasonics Sonochemistry*, **2019**, 58, 104654	8.9	66
245	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	5.7	65
244	Chemical synthesis, structural and magnetic properties of nano-structured CoZnFeCr ferrite. *Journal of Alloys and Compounds*, **2011**, 509, 5055-5060	5.7	65
243	NiCuZnTbFeO nanospinel ferrites: Ultrasonic synthesis and physical properties. *Ultrasonics Sonochemistry*, **2019**, 59, 104757	8.9	63
242	Structure refinement, cation site location, spectral and elastic properties of Zn2+ substituted NiFe2O4. *Journal of Molecular Structure*, **2012**, 1024, 77-83	3.4	62
241	Elastic properties of nanocrystalline aluminum substituted nickel ferrites prepared by co-precipitation method. *Journal of Molecular Structure*, **2013**, 1038, 40-44	3.4	62
240	Substitutional effect of Cr3+ ions on the properties of MgZn ferrite nanoparticles. *Physica B: Condensed Matter*, **2012**, 407, 4338-4346	2.8	61
239	Chemical tuning of structure formation and combustion process in CoDy0.1Fe1.9O4 nanoparticles: influence@pH. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	60
238	Electric, dielectric and ac electrical conductivity study of nanocrystalline cobalt substituted MgMn ferrites synthesized via solution combustion technique. *Journal of Molecular Structure*, **2013**, 1051, 336-344	3.4	59
237	Sonochemical synthesis of Eu substituted CoFeO nanoparticles and their structural, optical and magnetic properties. *Ultrasonics Sonochemistry*, **2019**, 58, 104621	8.9	58
236	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	2.8	57

235	Elucidation of phase evolution, microstructural, Mössbauer 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	5.7	56
234	Infrared spectral and elastic moduli study of NiFe2−xCrxO4 nanocrystalline ferrites. *Journal of Magnetism and Magnetic Materials*, **2013**, 325, 107-111	2.8	55
233	Structural, morphological, optical, cation distribution and Mössbauer analysis of Bi3+ substituted strontium hexaferrite. *Ceramics International*, **2016**, 42, 8627-8635	5.1	55
232	Structural, magnetic, optical properties and cation distribution of nanosized NiCuZnTmFeO (0.0 ≤ x ≤ 0.10) spinel ferrites synthesized by ultrasound irradiation. *Ultrasonics Sonochemistry*, **2019** , 57, 203-211	8.9	54
231	Structural investigation and hyperfine interactions of BaBi x La x Fe 12−2x O 19 (0.0 ≤ x ≤ 0.5) hexaferrites. *Ceramics International*, **2016**, 42, 3380-3387	5.1	54
230	Synthesis of Low Coercive BaFe12O19 Hexaferrite for Microwave Applications in Low-Temperature Cofired Ceramic. *Journal of Electronic Materials*, **2013**, 42, 761-768	1.9	54
229	Redistribution of cations and enhancement in magnetic properties of sol–gel synthesized Cu0.7−x Co x Zn0.3Fe2O4 (0 ≤ x ≤ 0.5). *Journal of Sol-Gel Science and Technology*, **2011**, 58, 70-79	2.3	54
228	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	2.8	53
227	Rietveld refinement and switching properties of Cr3+ substituted NiFe2O4 ferrites. *Materials Letters*, **2010**, 64, 722-724	3.3	52
226	Gamma irradiation induced damage creation on the cation distribution, structural and magnetic properties in Ni–Zn ferrite. *Nuclear Instruments & Methods in Physics Research B*, **2010**, 268, 2706-2711	1.2	52
225	Structural, magneto-optical properties and cation distribution of SrBi x La x Y x Fe 12−3x O 19 (0.0 ≤ x ≤ 0.33) hexaferrites. *Materials Research Bulletin*, **2016**, 80, 263-272	5.1	51
224	Ce 3+ incorporated structural and magnetic properties of M type barium hexaferrites. *Journal of Magnetism and Magnetic Materials*, **2015**, 378, 59-63	2.8	50
223	Impact of larger rare earth Pr3+ ions on the physical properties of chemically derived PrxCoFe2−xO4 nanoparticles. *Chemical Physics*, **2014**, 429, 20-26	2.3	50
222	Facile one-step hydrothermal synthesis of SnO2 microspheres with oxygen vacancies for superior ethanol sensor. *Journal of Alloys and Compounds*, **2020**, 814, 152266	5.7	50
221	Cation distribution study of nanocrystalline NiFe2−xCrxO4 ferrite by XRD, magnetization and Mössbauer spectroscopy. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 347-352	1.6	49
220	Mössbauer, Raman, and Magnetoresistance Study of Aluminum-Based Iron Oxide Thin Films. *Journal of Physical Chemistry C*, **2011**, 115, 3731-3736	3.8	49
219	Sol–gel synthesis of Cr3+ substituted Li0.5Fe2.5O4: Cation distribution, structural and magnetic properties. *Materials Chemistry and Physics*, **2011**, 126, 755-760	4.4	48
218	Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn2+–Ti4+ ion substituted CoFe2O4. *RSC Advances*, **2015**, 5, 91482-91492	3.7	47

217	Superparamagnetic behaviour and evidence of weakening in super-exchange interactions with the substitution of Gd3+ ions in the MgMn nanoferrite matrix. *Materials Research Bulletin*, **2015**, 63, 216-225	5.1	47
216	Influence of Cr3+ ion on the structural, ac conductivity and magnetic properties of nanocrystalline NiMg ferrite. *Ceramics International*, **2013**, 39, 1807-1819	5.1	47
215	XRD, EDX, FTIR and ESR spectroscopic studies of co-precipitated MnSubstituted ZnFerrite nanoparticles. *Ceramics International*, **2019**, 45, 8037-8044	5.1	47
214	Structural and magnetic characterizations of Mn?Ni?Zn ferrite nanoparticles. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 2355-2363	1.6	46
213	Fabrication of Co0.5Ni0.5CrxFe2O4 materials via solgel method and their characterizations. *Journal of Magnetism and Magnetic Materials*, **2013**, 327, 167-171	2.8	44
212	Enhanced reflection loss characteristics of substituted barium ferrite/functionalized multi-walled carbon nanotube nanocomposites. *Journal of Applied Physics*, **2011**, 109, 07A507	2.5	43
211	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. *Nano Letters*, **2020**, 20, 1262-1271	11.5	43
210	A comparison between magnetic and reflection loss characteristics of substituted strontium ferrite and nanocomposites of ferrite/carbon nanotubes. *Journal of Applied Physics*, **2012**, 111, 07B543	2.5	42
209	Au quantum dots engineered room temperature crystallization and magnetic anisotropy in CoFeO thin films. *Nanoscale Horizons*, **2019**, 4, 434-444	10.8	41
208	Exploring the structural, Mssbauer and dielectric properties of Co 2+ incorporated Mg 0.5 Zn 0.5 Co x Fe 2 O 4 nanocrystalline ferrite. *Journal of Magnetism and Magnetic Materials*, **2014**, 360, 21-33	2.8	41
207	Structural properties and magnetic interactions in Ni0.5Mg0.5Fe2CrxO4 (0 x 1) ferrite nanoparticles. *Powder Technology*, **2012**, 229, 37-44	5.2	41
206	Remarkable influence of Ce4+ ions on the electronic conduction of Ni1xCexFe2O4. *Scripta Materialia*, **2011**, 64, 773-776	5.6	41
205	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	3.7	40
204	ZnxFe3O4 (0.01 x 0.8) nanoparticles for controlled magnetic hyperthermia application. *New Journal of Chemistry*, **2018**, 42, 7144-7153	3.6	39
203	Impact of La and Y ion substitutions on structural, magnetic and microwave properties of NiCuZnFeO nanospinel ferrites synthesized sonochemical route.. *RSC Advances*, **2019**, 9, 30671-30684	3.7	39
202	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	2.8	38
201	Structural and electric properties of zinc substituted NiFe2O4 nanoparticles prepared by co-precipitation method. *Physica B: Condensed Matter*, **2010**, 405, 2610-2614	2.8	38
200	Structural, magnetic, optical properties and cation distribution of nanosized CoZnTmFeO (0.0 x 0.04) spinel ferrites synthesized by ultrasonic irradiation. *Ultrasonics Sonochemistry*, **2019**, 58, 104638	8.9	37

199	Structural and magnetic properties of glass-ceramics containing silver and iron oxide. *Materials Chemistry and Physics*, **2012**, 133, 144-150	4.4	37
198	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	5.7	37
197	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	2.8	35
196	Manganese ferrite prepared using reverse micelle process: Structural and magnetic properties characterization. *Journal of Alloys and Compounds*, **2015**, 642, 70-77	5.7	34
195	Crystal chemistry and single-phase synthesis of Gd substituted Co-Zn ferrite nanoparticles for enhanced magnetic properties.. *RSC Advances*, **2018**, 8, 25258-25267	3.7	34
194	Synthesis and study of nanocrystalline Ni□Cu□Zn ferrites prepared by oxalate based precursor method. *Journal of Alloys and Compounds*, **2011**, 509, 7004-7008	5.7	34
193	Phase evaluation of Li+ substituted CoFe2O4 nanoparticles, their characterizations and magnetic properties. *Journal of Magnetism and Magnetic Materials*, **2014**, 355, 70-75	2.8	33
192	STRUCTURAL PROPERTIES AND CATION DISTRIBUTION OF Co□Zn NANOFERRITES. *International Journal of Modern Physics B*, **2009**, 23, 5629-5638	1.1	32
191	Frequency, temperature and In3+ dependent electrical conduction in NiFe2O4 powder. *Powder Technology*, **2011**, 212, 218-223	5.2	31
190	Spectroscopic, elastic and dielectric properties of Ho3+ substituted Co-Zn ferrites synthesized by sol-gel method. *Ceramics International*, **2016**, 42, 16096-16102	5.1	31
189	Study of magnetic behavior in co-precipitated Ni□Zn ferrite nanoparticles and their potential use for gas sensor applications. *Journal of Magnetism and Magnetic Materials*, **2020**, 502, 166534	2.8	30
188	Permeability and magnetic properties of Al3+ substituted Ni0.7Zn0.3Fe2O4 nanoparticles. *Journal of Applied Physics*, **2012**, 112, 053908	2.5	30
187	Synthesis of Dy-Y co-substituted manganese-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	8.3	29
186	Elastic behaviour of Cr3+ substituted Co□Zn ferrites. *Journal of Magnetism and Magnetic Materials*, **2014**, 350, 39-41	2.8	29
185	Electrical resistivity and M□ssbauer studies of Cr substituted Co nano ferrites. *Journal of Alloys and Compounds*, **2017**, 694, 366-374	5.7	29
184	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	5.7	29
183	Permeability and magnetic interactions in Co2+ substituted Li0.5Fe2.5O4 alloys. *Journal of Alloys and Compounds*, **2013**, 575, 145-151	5.7	29
182	Multiferroic properties of microwave sintered BaTiO3□SrFe12O19 composites. *Physica B: Condensed Matter*, **2014**, 448, 323-326	2.8	28

181	Site occupancies of Co Mg Cr Fe ions and their impact on the properties of Co0.5Mg0.5CrxFe2 O4. *Journal of Alloys and Compounds*, **2013**, 552, 443-450	5.7	28
180	Dielectric properties, cationic distribution calculation and hyperfine interactions of La3+ and Bi3+ doped strontium hexaferrites. *Ceramics International*, **2016**, 42, 9100-9115	5.1	27
179	Preparation and characterization of Co2+ substituted Li Dy ferrite ceramics. *Ceramics International*, **2013**, 39, 5227-5234	5.1	27
178	Frequency and temperature dependent electrical properties of Ni0.7Zn0.3Cr Fe2 O4 (0 0.5). *Ceramics International*, **2012**, 38, 2963-2970	5.1	27
177	Structural, optical and magnetic properties of Tb3+ substituted Co nanoferrites prepared via sonochemical approach. *Ceramics International*, **2019**, 45, 22538-22546	5.1	26
176	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	1.2	26
175	Controllable dynamics of oxygen vacancies through extrinsic doping for superior catalytic activities. *Nanoscale*, **2018**, 10, 18576-18585	7.7	26
174	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	5.9	25
173	High temperature dielectric studies of indium-substituted NiCuZn nanoferrites. *Journal of Physics and Chemistry of Solids*, **2018**, 112, 29-36	3.9	25
172	Self-ignited synthesis of Mg Gd Mn nanoferrites and impact of cation distribution on the dielectric properties. *Ceramics International*, **2014**, 40, 14509-14516	5.1	25
171	Sol-gel auto-combustion synthesis of Li3xMnFe2 O4 and their characterizations. *Journal of Applied Physics*, **2012**, 112, 043902	2.5	25
170	Ferrites Obtained by Sol-Gel Method **2018**, 695-735		25
169	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	5.1	25
168	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO)] Sodium Battery Insertion Material: Structural and Electrochemical Insights. *Inorganic Chemistry*, **2017**, 56, 5918-5929	5.1	24
167	Polyol synthesis of Mn3+ substituted Fe3O4 nanoparticles: Cation distribution, structural and electrical properties. *Superlattices and Microstructures*, **2015**, 85, 747-760	2.8	24
166	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	5.7	24
165	Study of structural, electrical and magnetic properties of Cr doped Ni Mg ferrite nanoparticle. *Journal of Alloys and Compounds*, **2014**, 602, 150-156	5.7	24
164	Cation distribution investigation and characterizations of Ni1 CdxFe2O4 nanoparticles synthesized by citrate gel process. *Journal of Molecular Structure*, **2013**, 1032, 105-110	3.4	24

163	Structural and magnetic investigations: Study of magnetocrystalline anisotropy and magnetic behavior of 0.1% Cu2+ substituted NiZn ferrite nanoparticles. *Ceramics International*, **2018**, 44, 1193-1200	5.1	22
162	Magnetic field induced polarization and magnetoelectric effect in Na0.5Bi0.5TiO3Co0.75Zn0.25Cr0.2Fe1.8O4 multiferroic composite. *Journal of Magnetism and Magnetic Materials*, **2019**, 471, 388-393	2.8	22
161	Magnetic properties and Mssbauer spectroscopy of Cu-Mn substituted BaFe12O19 hexaferrites. *Ceramics International*, **2017**, 43, 15486-15492	5.1	21
160	Sonochemical synthesis of Dy substituted MnZnFeO nanoparticles: Structural, magnetic and optical characterizations. *Ultrasonics Sonochemistry*, **2020**, 61, 104836	8.9	21
159	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	5.7	21
158	Evidence for the Existence of Oxygen Clustering and Understanding of Structural Disorder in Prussian Blue Analogues Molecular Magnet M1.5[Cr(CN)6]zH2O (M = Fe and Co): Reverse Monte Carlo Simulation and Neutron Diffraction Study. *Journal of Physical Chemistry C*, **2013**, 117, 2676-2687	3.8	20
157	Effect of bimetallic (Ni and Co) substitution on magnetic properties of MnFe2O4 nanoparticles. *Ceramics International*, **2016**, 42, 13773-13782	5.1	19
156	Quaternary ammonium bearing hyper-crosslinked polymer encapsulation on Fe3O4 nanoparticles. *RSC Advances*, **2016**, 6, 21317-21325	3.7	19
155	Study of structural and magnetic properties of (CoCu)Fe2O4/PANI composites. *Materials Chemistry and Physics*, **2013**, 141, 406-415	4.4	19
154	Electrical properties and hyperfine interactions of boron doped Fe3O4 nanoparticles. *Superlattices and Microstructures*, **2015**, 88, 450-466	2.8	19
153	Mssbauer spectroscopy and magnetic characteristics of Zn1xCoxFe2O4 (x = 01) nanoparticles. *Journal of Applied Physics*, **2011**, 109, 07A512	2.5	19
152	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	5.7	19
151	Polycrystalline to preferred-(100) single crystal texture phase transformation of yttrium iron garnet nanoparticles. *Nanoscale Advances*, **2019**, 1, 403-413	5.1	19
150	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	2.8	18
149	Fabrication of Cu2+ substituted nanocrystalline NiZn ferrite by solution combustion route: Investigations on structure, cation occupancy and magnetic behavior. *Journal of Alloys and Compounds*, **2013**, 553, 157-162	5.7	18
148	Superparamagnetic behavior of indium substituted NiCuZn nano ferrites. *Journal of Magnetism and Magnetic Materials*, **2015**, 381, 416-421	2.8	18
147	Magnetic and dielectric properties of Zn substituted cobalt oxide nanoparticles. *Ceramics International*, **2019**, 45, 16512-16520	5.1	17
146	Influence of gadolinium (Gd3+) ion substitution on structural, magnetic and electrical properties of cobalt ferrites. *Journal of Alloys and Compounds*, **2020**, 840, 155669	5.7	17

145	Low temperature synthesis of Li0.5ZrxCoxFe2.5 □2xO4 powder and their characterizations. *Powder Technology*, **2013**, 235, 485-492	5.2	17
144	Auto-ignition synthesis of CoFe2O4 with Al3+ substitution for high frequency applications. *Ceramics International*, **2017**, 43, 14347-14353	5.1	17
143	Influence of Ni2+ substitution on the structural, dielectric and magnetic properties of Cu□d ferrite nanoparticles. *Journal of Alloys and Compounds*, **2013**, 573, 198-204	5.7	17
142	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	4	17
141	Spin glass behavior and enhanced but frustrated magnetization in Ho3+ substituted Co□n ferrite interacting nanoparticles. *RSC Advances*, **2016**, 6, 76590-76599	3.7	17
140	Controlled synthesis and enhanced tunnelling magnetoresistance in oriented Fe3O4 nanorod assemblies. *Journal Physics D: Applied Physics*, **2018**, 51, 085002	3	16
139	Synthesis and structural, magnetic characterization of nanocrystalline Zn1□MnxO diluted magnetic semiconductors (DMSs) synthesized by combustion reaction. *Ceramics International*, **2014**, 40, 6553-6559	5.1	16
138	The role of copper ions on the structural and magnetic characteristics of MgZn ferrite nanoparticles and thin films. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 3064-3071	2.8	16
137	Co□Al-substituted strontium hexaferrite for rare earth free permanent magnet and microwave absorber application. *Journal Physics D: Applied Physics*, **2021**, 54, 024001	3	16
136	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	3.7	16
135	Nanoscale-driven structural changes and associated superparamagnetism in magnetically diluted Ni□n ferrites. *Materials Chemistry Frontiers*, **2018**, 2, 300-312	7.8	16
134	Impact of Tm and Tb Rare Earth Cations Substitution on the Structure and Magnetic Parameters of Co-Ni Nanospinel Ferrite. *Nanomaterials*, **2020**, 10,	5.4	15
133	Hydrothermally synthesized oxalate and phenanthroline based ferrimagnetic one-dimensional spin chain molecular magnets [{Fe(□)Fe(□)1□{Cr(□)Cr(□)}x(ox)2(phen)2]n (x = 0, 0.1 and 0.5) with giant coercivity of 3.2 Tesla. *Journal of Materials Chemistry C*, **2013**, 1, 6637	7.1	15
132	Influence of Cr3+ substitution on the electrical and magnetic properties of Ni0.4Cu0.4Zn0.2Fe2O4 nanoparticles. *International Nano Letters*, **2012**, 2, 1	5.7	15
131	Anisotropy and domain state dependent enhancement of single domain ferrimagnetism in cobalt substituted Ni□n ferrites. *New Journal of Chemistry*, **2016**, 40, 9275-9284	3.6	15
130	Magnetic and microstructural features of Dy3+ substituted NiFe2O4 nanoparticles derived by sol□gel approach. *Journal of Sol-Gel Science and Technology*, **2020**, 95, 202-210	2.3	15
129	Structural, optical, elastic and magnetic properties of Ce and Dy doped cobalt ferrites. *Journal of Alloys and Compounds*, **2020**, 834, 155089	5.7	15
128	Manipulation of charge carrier concentration and phonon scattering via spin-entropy and size effects: Investigation of thermoelectric transport properties in La-doped Ca3Co4O9. *Journal of Alloys and Compounds*, **2019**, 801, 60-69	5.7	14

127	Structural phases and Maxwell–Wagner relaxation in magnetically soft-ZnFe2O4 and hard-Sr2Cu2Fe12O22 nanocomposites. *Ceramics International*, **2016**, 42, 2289-2298	5.1	14
126	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	5.5	14
125	Structural, mechanical, dielectric properties and magnetic interactions in Dy-substituted Co-Cu-Zn nanoferrites.. *RSC Advances*, **2020**, 10, 27911-27922	3.7	14
124	Surprisingly high magneto-electric coupling in cubic Co0.7Fe2.3O4-SrTiO3 nano-composites. *Journal of Alloys and Compounds*, **2019**, 773, 564-570	5.7	14
123	Magnetic Properties and Cation Distribution of Bimetallic (Mn–Co) Doped NiFe2O4 Nanoparticles. *Journal of Inorganic and Organometallic Polymers and Materials*, **2017**, 27, 1893-1900	3.2	13
122	Stability of ferroelectric phases and magnetoelectric response in multiferroic (1-x)Bi(Ni1/2Ti1/2)O3-PbTiO3/xNi0.6Zn0.4Fe2O4 particulate composites. *Ceramics International*, **2019**, 45, 23013-23021	5.1	13
121	Synthesis of CoFe Prussian blue analogue/poly vinylidene fluoride nanocomposite material with improved thermal stability and ferroelectric properties. *New Journal of Chemistry*, **2018**, 42, 4567-4578	3.6	13
120	Study of Higher Discharge Capacity, Phase Transition, and Relative Structural Stability in Li2FeSiO4 Cathode upon Lithium Extraction Using an Experimental and Theoretical Approach and Full Cell Prototype Study. *ACS Applied Energy Materials*, **2019**, 2, 6584-6598	6.1	13
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