

# K M Jadhav

## List of Publications by Year in descending order

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211  
papers

8,264  
citations

31902

53  
h-index

62479

80  
g-index

213  
all docs

213  
docs citations

213  
times ranked

4244  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural investigations and magnetic properties of cobalt ferrite nanoparticles prepared by sol-gel auto combustion method. Solid State Communications, 2008, 147, 479-483.	0.9	225
2	Structural and magnetic properties of In <sup>3+</sup> substituted NiFe <sub>2</sub> O <sub>4</sub> . Materials Chemistry and Physics, 2009, 117, 163-168.	2.0	214
3	Influential diamagnetic magnesium (Mg <sup>2+</sup> ) ion substitution in nano-spinel zinc ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ): Thermal, structural, spectral, optical and physisorption analysis. Ceramics International, 2020, 46, 8640-8650.	2.3	205
4	Effect of Zn substitution on magnetic properties of nanocrystalline cobalt ferrite. Journal of Applied Physics, 2010, 108, .	1.1	158
5	Synthesis, structural investigation and magnetic properties of Zn <sup>2+</sup> substituted cobalt ferrite nanoparticles prepared by the sol-gel auto-combustion technique. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 87-92.	1.0	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	Rietveld structure refinement, cation distribution and magnetic properties of Al <sup>3+</sup> substituted NiFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	141
8	Hydrophobic to hydrophilic surface transformation of nano-scale zinc ferrite via oleic acid coating: Magnetic hyperthermia study towards biomedical applications. Ceramics International, 2020, 46, 7642-7653.	2.3	137
9	Hyperthermic evaluation of oleic acid coated nano-spinel magnesium ferrite: Enhancement via hydrophobic-to-hydrophilic surface transformation. Journal of Alloys and Compounds, 2020, 835, 155422.	2.8	133
10	Self-heating evaluation of superparamagnetic MnFe <sub>2</sub> O <sub>4</sub> nanoparticles for magnetic fluid hyperthermia application towards cancer treatment. Ceramics International, 2020, 46, 25576-25583.	2.3	132
11	Electrical and magnetic properties of Cr <sup>3+</sup> substituted nanocrystalline nickel ferrite. Journal of Applied Physics, 2009, 106, .	1.1	130
12	Effect of Zn doping on structural, magnetic and optical properties of cobalt ferrite nanoparticles synthesized via. Co-precipitation method. Physica B: Condensed Matter, 2020, 583, 412051.	1.3	129
13	Structural, thermal, spectral, optical and surface analysis of rare earth metal ion (Gd <sup>3+</sup> ) doped mixed Zn-Mg nano-spinel ferrites. Ceramics International, 2020, 46, 13170-13179.	2.3	126
14	Structural and magnetic behaviour of aluminium doped barium hexaferrite nanoparticles synthesized by solution combustion technique. Physica B: Condensed Matter, 2011, 406, 789-793.	1.3	124
15	Induction Heating Analysis of Surface-Functionalized Nanoscale CoFe <sub>2</sub> O <sub>4</sub> for Magnetic Fluid Hyperthermia toward Noninvasive Cancer Treatment. ACS Omega, 2020, 5, 23378-23384.	1.6	123
16	Autocombustion High-Temperature Synthesis, Structural, and Magnetic Properties of CoCr <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> (0 ≤ x ≤ 1.0). Journal of Physical Chemistry C, 2011, 115, 20905-20912.	1.5	119
17	Influence of trivalent Al-Cr co-substitution on the structural, morphological and Mössbauer properties of nickel ferrite nanoparticles. Journal of Alloys and Compounds, 2020, 821, 153501.	2.8	119
18	Synthesis and magnetic properties of NiFe <sub>2-<i>x</i></sub> Al <sub><i>x</i></sub> O <sub>4</sub> nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 316, 1-7.	1.0	116

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19	Surface modified sodium silicate based superhydrophobic silica aerogels prepared via ambient pressure drying process. <i>Journal of Non-Crystalline Solids</i> , 2019, 511, 140-146.	1.5	114
20	Spinel zinc ferrite nanoparticles: an active nanocatalyst for microwave irradiated solvent free synthesis of chalcones. <i>Materials Research Express</i> , 2020, 7, 016116.	0.8	112
21	Electrical and switching properties of NiAl <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> ferrites synthesized by chemical method. <i>Physica B: Condensed Matter</i> , 2011, 406, 663-668.	1.3	102
22	Influence of Ce <sup>4+</sup> ions on the structural and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	101
23	Cation distribution, magnetic and hyperfine interaction studies of Ni <sup>2+</sup> /Zn spinel ferrites: role of Jahn Teller ion (Cu <sup>2+</sup> ) substitution. <i>Materials Advances</i> , 2020, 1, 880-890.	2.6	95
24	Magnetic and dielectric properties of nanophase manganese-substituted lithium ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3270-3273.	1.0	94
25	Elastic properties of nanocrystalline aluminum substituted nickel ferrites prepared by co-precipitation method. <i>Journal of Molecular Structure</i> , 2013, 1038, 40-44.	1.8	94
26	Network structure analysis of modifier CdO doped sodium borate glass using FTIR and Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2017, 474, 58-65.	1.5	93
27	Structural and optical properties of nanocrystalline Ni <sup>2+</sup> /Zn ferrite thin films. <i>Journal of Alloys and Compounds</i> , 2010, 507, 21-25.	2.8	92
28	Effect of aluminum substitution on the structural and magnetic properties of cobalt ferrite synthesized by sol-gel auto combustion process. <i>Physica B: Condensed Matter</i> , 2011, 406, 4350-4354.	1.3	90
29	Sol-gel auto combustion synthesis and characterizations of cobalt ferrite nanoparticles: Different fuels approach. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 248, 114388.	1.7	85
30	Cation distribution by Rietveld, spectral and magnetic studies of Chromium-substituted nickel ferrites. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 429-434.	1.1	84
31	Magneto-structural and photocatalytic behavior of mixed Ni <sup>2+</sup> /Zn nano-spinel ferrites: visible light-enabled active photodegradation of rhodamine B. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11352-11365.	1.1	84
32	Influential incorporation of RE metal ion (Dy <sup>3+</sup> ) in yttrium iron garnet (YIG) nanoparticles: Magnetic, electrical and dielectric behaviour. <i>Ceramics International</i> , 2020, 46, 15372-15378.	2.3	84
33	Chemical synthesis, structural and magnetic properties of nano-structured Co <sup>2+</sup> /Zn <sup>2+</sup> /Fe <sup>2+</sup> /Cr ferrite. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5055-5060.	2.8	81
34	Magnetic study of substituted Mg <sup>2+</sup> /Mn ferrites synthesized by citrate precursor method. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 283, 71-81.	1.0	80
35	Dielectric properties of Al-substituted Co ferrite nanoparticles. <i>Bulletin of Materials Science</i> , 2009, 32, 575-578.	0.8	80
36	Structural studies of Mn doped ZnO nanoparticles. <i>Current Applied Physics</i> , 2011, 11, 762-766.	1.1	78

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37	Multiferroic iron doped BaTiO <sub>3</sub> nanoceramics synthesized by sol-gel auto combustion: Influence of iron on physical properties. <i>Ceramics International</i> , 2016, 42, 12441-12451.	2.3	78
38	X-Ray Diffraction and Cation Distribution Studies in Zinc-Substituted Nickel Ferrite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 547-553.	0.8	77
39	Impact of Jahn Teller ion on magnetic and semiconducting behaviour of Ni-Zn spinel ferrite synthesized by nitrate-citrate route. <i>Journal of Alloys and Compounds</i> , 2017, 691, 343-354.	2.8	74
40	Structure refinement, cation site location, spectral and elastic properties of Zn <sup>2+</sup> substituted NiFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Molecular Structure</i> , 2012, 1024, 77-83.	1.8	70
41	Effect of Nd <sup>3+</sup> doping on structural and magnetic properties of Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystalline ferrites synthesized by sol-gel auto combustion method. <i>Journal of Alloys and Compounds</i> , 2018, 748, 1053-1061.	2.8	70
42	Investigation of structural and magnetic properties of nanocrystalline manganese substituted lithium ferrites. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3217-3221.	1.4	69
43	Exploration of thermoacoustics behavior of water based nickel ferrite nanofluids by ultrasonic velocity method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6564-6574.	1.1	67
44	Effect of Cation Proportion on the Structural and Magnetic Properties of Ni-Zn Ferrites Nano-Size Particles Prepared By Co-Precipitation Technique. <i>Chinese Journal of Chemical Physics</i> , 2008, 21, 381-386.	0.6	64
45	Influence of chromium substitution on structural and magnetic properties of BaFe <sub>12</sub> O <sub>19</sub> powder prepared by sol-gel auto combustion method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4394-4398.	2.8	64
46	Structural, magnetic and dielectrical properties of Al-Cr Co-substituted M-type barium hexaferrite nanoparticles. <i>Journal of Molecular Structure</i> , 2016, 1106, 460-467.	1.8	63
47	Infrared spectral and elastic moduli study of NiFe <sub>2-x</sub> Cr <sub>x</sub> O <sub>4</sub> nanocrystalline ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 325, 107-111.	1.0	62
48	Magnetically retrievable nanoscale nickel ferrites: An active photocatalyst for toxic dye removal applications. <i>Ceramics International</i> , 2021, 47, 28623-28633.	2.3	60
49	Rietveld refinement, morphology and superparamagnetism of nanocrystalline Ni <sub>0.70-x</sub> Cu <sub>x</sub> Zn <sub>0.30</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite. <i>Ceramics International</i> , 2018, 44, 5466-5472.	2.3	59
50	Enhancement in surface area and magnetization of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles for targeted drug delivery application. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	59
51	Rietveld refinement and switching properties of Cr <sup>3+</sup> substituted NiFe <sub>2</sub> O <sub>4</sub> ferrites. <i>Materials Letters</i> , 2010, 64, 722-724.	1.3	57
52	X-ray and infrared studies of chromium substituted magnesium ferrite. <i>Materials Letters</i> , 2000, 42, 33-37.	1.3	55
53	Gamma irradiation induced damage creation on the cation distribution, structural and magnetic properties in Ni-Zn ferrite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 2706-2711.	0.6	55
54	Dielectric relaxation and ac conductivity of polyaniline-zinc ferrite composite. <i>Composites Part B: Engineering</i> , 2012, 43, 3406-3411.	5.9	54

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55	Cation distribution in nanocrystalline Al <sup>3+</sup> and Cr <sup>3+</sup> co-substituted CoFe <sub>2</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2010, 502, 477-479.	2.8	53
56	Temperature dependent viscosity of cobalt ferrite / ethylene glycol ferrofluids. AIP Conference Proceedings, 2018, , .	0.3	52
57	Effect of Cd <sup>2+</sup> doping on structural, morphological, optical, magnetic and wettability properties of nickel ferrite thin films. Optik, 2020, 207, 164462.	1.4	52
58	Remarkable influence of Ce <sup>4+</sup> ions on the electronic conduction of Ni <sup>1-2x</sup> Ce <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> . Scripta Materialia, 2011, 64, 773-776.	2.6	51
59	Electrical and Dielectrical Properties of Low-Temperature-Synthesized Nanocrystalline Mg <sup>2+</sup> -Substituted Cobalt Spinel Ferrite. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3351-3356.	0.8	51
60	Investigations of structural, magnetic and induction heating properties of surface functionalized zinc ferrite nanoparticles for hyperthermia applications. AIP Conference Proceedings, 2019, , .	0.3	51
61	Tuning of physical properties of multifunctional Mg-Zn spinel ferrite nanocrystals: a comparative investigations manufactured via conventional ceramic versus green approach sol-gel combustion route. Materials Research Express, 2020, 7, 116102.	0.8	51
62	Magnetic and dielectric properties of Mg <sub>1+x</sub> Mn <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> ferrite system. Journal of Materials Science, 2005, 40, 423-428.	1.7	50
63	Structural and magnetic properties of aluminium and chromium co-substituted cobalt ferrite. Materials Letters, 2000, 44, 91-95.	1.3	49
64	Microfluidic paper-based aptasensor devices for multiplexed detection of pathogenic bacteria. Biosensors and Bioelectronics, 2022, 207, 114214.	5.3	49
65	Structural and electric properties of zinc substituted NiFe <sub>2</sub> O <sub>4</sub> nanoparticles prepared by co-precipitation method. Physica B: Condensed Matter, 2010, 405, 2610-2614.	1.3	48
66	Urea assisted synthesis of Ni <sup>1-x</sup> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (0 ≤ x ≤ 0.8): Magnetic and Mössbauer investigations. Journal of Alloys and Compounds, 2017, 704, 227-236.	2.8	48
67	Deposition, characterization, magnetic and optical properties of Zn doped CuFe <sub>2</sub> O <sub>4</sub> thin films. Journal of Alloys and Compounds, 2017, 695, 1573-1582.	2.8	48
68	Different property studies with network improvement of CdO doped alkali borate glass. Journal of Non-Crystalline Solids, 2018, 491, 14-23.	1.5	48
69	Structural, morphological, optical, magnetic and electrical properties of Al <sup>3+</sup> substituted nickel ferrite thin films. Journal of Alloys and Compounds, 2018, 735, 2287-2297.	2.8	46
70	Superparamagnetic Behavior of Zinc-Substituted Nickel Ferrite Nanoparticles and its Effect on Mossbauer and Magnetic Parameters. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1889-1897.	0.8	43
71	X-ray diffraction and dielectric study of Co <sup>1-x</sup> Cd <sub>x</sub> Fe <sub>2-2x</sub> Cr <sub>x</sub> O <sub>4</sub> ferrite system. Materials Letters, 2002, 56, 188-193.	1.3	41
72	Effect of Co <sup>2+</sup> ions on structural, morphological and optical properties of ZnO nanoparticles synthesized by sol-gel auto combustion method. Materials Science in Semiconductor Processing, 2016, 41, 441-449.	1.9	41

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73	Electrical resistivity and Mössbauer studies of Cr substituted Co nano ferrites. Journal of Alloys and Compounds, 2017, 694, 366-374.	2.8	41
74	Structural and magnetic properties of $\text{Co}_{1+y}\text{Sn}_y\text{Fe}_{2-2y-x}\text{Cr}_x\text{O}_4$ ferrite system. Bulletin of Materials Science, 2003, 26, 517-521.	0.8	40
75	STRUCTURAL PROPERTIES AND CATION DISTRIBUTION OF $\text{Co}_x\text{Zn}_{1-x}$ NANOFERRITES. International Journal of Modern Physics B, 2009, 23, 5629-5638.	1.0	40
76	Effect of gamma irradiation on the structural and magnetic properties of $\text{Co}^{2+}\text{Zn}$ spinel ferrite nanoparticles. Materials Research Bulletin, 2015, 63, 123-128.	2.7	40
77	Influence of trivalent Cr ion substitution on the physicochemical, optical, electrical, and dielectric properties of sprayed $\text{NiFe}_2\text{O}_4$ spinel-magnetic thin films. RSC Advances, 2020, 10, 25143-25154.	1.7	40
78	Elastic behaviour of $\text{Cr}^{3+}$ substituted $\text{Co}^{2+}\text{Zn}$ ferrites. Journal of Magnetism and Magnetic Materials, 2014, 350, 39-41.	1.0	39
79	Impact of crystallites on enhancement of bandgap of $\text{Mn}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ( $1 \leq x \leq 0$ ) nanospinel. Chemical Physics Letters, 2020, 745, 137240.	1.2	39
80	Magnetic and electrical properties of aluminium and chromium co-substituted yttrium iron garnets. Materials Letters, 1997, 32, 281-285.	1.3	38
81	Frequency, temperature and $\text{In}^{3+}$ dependent electrical conduction in $\text{NiFe}_2\text{O}_4$ powder. Powder Technology, 2011, 212, 218-223.	2.1	37
82	$\text{Cu}^{2+}$ -substituted $\text{NiFe}_2\text{O}_4$ thin films via spray pyrolysis technique and their high-frequency devices application. Journal of Alloys and Compounds, 2018, 769, 1132-1145.	2.8	37
83	Structural and magnetic properties of $\text{Zn}_x\text{Cu}_{1-x}\text{Mn}_{0.4}\text{Fe}_{1.2}\text{O}_4$ ferrites. Materials Letters, 2005, 59, 2981-2985.	1.3	36
84	Low temperature LPG sensing properties of wet chemically grown zinc oxide nanoparticle thin film. Sensors and Actuators B: Chemical, 2010, 146, 69-74.	4.0	34
85	Eco-friendly green synthesis and characterizations of $\text{CoFe}_{2-x}\text{Al}_x\text{O}_4$ nanocrystals: analysis of structural, magnetic, electrical, and dielectric properties. Journal of Nanostructure in Chemistry, 2021, 11, 469-481.	5.3	34
86	Preparation and characterization of $\text{Co}^{2+}$ substituted $\text{Li}^{2+}\text{Dy}$ ferrite ceramics. Ceramics International, 2013, 39, 5227-5234.	2.3	33
87	Effect of Annealing Temperature on Structural, Morphological, Optical and Magnetic Properties of $\text{NiFe}_2\text{O}_4$ Thin Films. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2949-2958.	0.8	33
88	Structural, infrared, magnetic and ferroelectric properties of $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Ti}_{1-x}\text{Fe}_x\text{O}_3$ nanoceramics: Modifications via trivalent Fe ion doping. Physica B: Condensed Matter, 2020, 581, 411944.	1.3	32
89	Modifications in structural, cation distribution and magnetic properties of $^{60}\text{Co}$ gamma irradiated Li-ferrite. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2026-2031.	0.6	31
90	Synthesis, structural, morphological, optical and magnetic properties of $\text{Zn}_{1-x}\text{Co}_x\text{O}$ ( $0 \leq x \leq 0.36$ ) nanoparticles synthesized by sol-gel auto combustion method. Journal of Alloys and Compounds, 2016, 683, 513-526.	2.8	31

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91	Surface Functionalized Superparamagnetic Zn-Mg Ferrite Nanoparticles for Magnetic Hyperthermia Application Towards Noninvasive Cancer Treatment. <i>Macromolecular Symposia</i> , 2021, 400, .	0.4	31
92	Effect of 100 kGy $\gamma$ -irradiation on the structural, electrical and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> NPs. <i>Journal of Alloys and Compounds</i> , 2016, 676, 326-336.	2.8	30
93	Inter-atomic bonding and dielectric polarization in Gd <sup>3+</sup> incorporated Co-Zn ferrite nanoparticles. <i>Physica B: Condensed Matter</i> , 2017, 510, 74-79.	1.3	30
94	Sol-gel Auto Combustion Synthesis, Structural and Magnetic Properties of Mn doped ZnO Nanoparticles. <i>Procedia Manufacturing</i> , 2018, 20, 174-180.	1.9	28
95	Structural, Electrical, Dielectric, and Magnetic Properties of Cd <sup>2+</sup> Substituted Nickel Ferrite Nanoparticles. <i>Journal of Nanoparticles</i> , 2016, 2016, 1-8.	1.4	27
96	Structural, Electrical and Dielectrical Property Investigations of Fe-Doped BaZrO <sub>3</sub> Nanoceramics. <i>Journal of Electronic Materials</i> , 2016, 45, 3227-3235.	1.0	27
97	Electrical and dielectric properties of silicon substituted cobalt ferrites. <i>Materials Letters</i> , 1998, 37, 63-67.	1.3	26
98	Influence of Mg <sup>2+</sup> substitution on magnetic properties of Co-Fe-Cr-O spinel ferrite system. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 195, 692-698.	1.0	26
99	X-ray, IR and bulk magnetic properties of Cu <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite system. <i>Journal of Materials Science</i> , 2002, 37, 1443-1448.	1.7	26
100	Effects of Nd:YAG laser irradiation on structural and magnetic properties of Li <sub>0.5</sub> Fe <sub>2.5</sub> O <sub>4</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 466-471.	0.6	26
101	Effect of magnesium substitution on the structural, morphological, optical and wettability properties of cobalt ferrite thin films. <i>Physica B: Condensed Matter</i> , 2019, 555, 61-68.	1.3	26
102	Effect of Fe substitution on phase transformation, optical, electrical and dielectrical properties of BaTiO <sub>3</sub> nanoceramics synthesized by sol-gel auto combustion method. <i>Journal of Electroceramics</i> , 2016, 37, 110-120.	0.8	25
103	Room temperature ferromagnetism and photoluminescence of multifunctional Fe doped BaZrO <sub>3</sub> nanoceramics. <i>Journal of Alloys and Compounds</i> , 2017, 691, 287-298.	2.8	25
104	Effect of Sm <sup>3+</sup> substitution on the structural and magnetic properties of Ni-Co nanoferrites. <i>Optics and Laser Technology</i> , 2019, 112, 107-116.	2.2	25
105	Physicochemical properties of ambient pressure dried surface modified silica aerogels: effect of pH variation. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	25
106	Auto-ignition synthesis of CoFe <sub>2</sub> O <sub>4</sub> with Al <sup>3+</sup> substitution for high frequency applications. <i>Ceramics International</i> , 2017, 43, 14347-14353.	2.3	24
107	Synthesis, structural, electrical and dielectric properties of Zn-Zr doped strontium hexaferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3101-3107.	1.1	23
108	Effects of Nd:YAG laser irradiation on structural, morphological, cation distribution and magnetic properties of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> . <i>Applied Surface Science</i> , 2011, 257, 8511-8517.	3.1	22

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109	Multifunctional Magnetic Nano-platforms for Advanced Biomedical applications: A Brief Review. Journal of Physics: Conference Series, 2020, 1644, 012036.	0.3	22
110	Bulk Magnetic Properties of Cobalt Ferrite Doped with Si <sup>4+</sup> Ions. Journal of Materials Science Letters, 1998, 17, 849-851.	0.5	21
111	Nanocrystalline Ni <sub>0.70</sub> ~xCo <sub>x</sub> Zn <sub>0.30</sub> Fe <sub>2</sub> O <sub>4</sub> with 0~x~0.25 prepared by nitrate-citrate route: structure, morphology and electrical investigations. Journal of Materials Science: Materials in Electronics, 2018, 29, 3467-3481.	1.1	21
112	Structural, magnetization and susceptibility studies on cobalt~ferri-aluminates synthesized by wet-chemical method. Physica B: Condensed Matter, 2000, 291, 379-386.	1.3	20
113	Rietveld, cation distribution and elastic investigations of nanocrystalline Li <sub>0.5</sub> +0.5xZrxFe <sub>2.5</sub> -1.5xO <sub>4</sub> synthesized via sol-gel route. Physica B: Condensed Matter, 2018, 547, 64-71.	1.3	20
114	Structural, Microstructural, Magnetic, and Ferroelectric Properties of Ba <sup>2+</sup> -Doped BiFeO <sub>3</sub> Nanocrystalline Multiferroic Material. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2501-2509.	0.8	19
115	Effect of zinc doping on water-based manganese ferrite nanofluids for magnetic hyperthermia application. AIP Conference Proceedings, 2020, , .	0.3	19
116	Presence of intrinsic defects and transition from diamagnetic to ferromagnetic state in Co <sup>2+</sup> ions doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 5575-5583.	1.1	18
117	Effect of Zn <sup>2+</sup> ~Cr <sup>3+</sup> substitution on structural, morphological, magnetic and electrical properties of NiFe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 15259-15270.	1.1	18
118	Magnetic and electrical properties of lanthanum substituted yttrium iron garnets. Journal of Materials Science, 2006, 41, 6460-6464.	1.7	17
119	Mössbauer spectral studies of Ti <sup>4+</sup> substituted nickel ferrite. Journal of Magnetism and Magnetic Materials, 2013, 331, 220-224.	1.0	17
120	Structural, Microstructural, and Magnetic Studies on Magnesium (Mg <sup>2+</sup> )-Substituted CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1025-1032.	0.8	17
121	Influence of Ti <sup>4+</sup> ion substitution on structural, electrical and dielectric properties of Li <sub>0.5</sub> Fe <sub>2.5</sub> O <sub>4</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 17254-17261.	1.1	17
122	Influence of Al~Cr co-substitution on physical properties of strontium hexaferrite nanoparticles synthesized by sol-gel auto combustion method. Journal of Materials Science: Materials in Electronics, 2017, 28, 407-417.	1.1	17
123	Sol-gel auto combustion synthesis, electrical and dielectric properties of Zn <sub>1~x</sub> Co <sub>x</sub> O (0.0~x~0.36) semiconductor nanoparticles. Journal of Alloys and Compounds, 2017, 691, 355-363.	2.8	17
124	Rietveld refined structural, morphological, Raman and magnetic investigations of superparamagnetic Zn~Co nanospinel ferrites prepared by cost-effective co-precipitation route. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	17
125	Investigations of magnetic and ferroelectric properties of multiferroic Sr-doped bismuth ferrite. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	16
126	Preparation and Thermophysical Investigations of CoFe <sub>2</sub> O <sub>4</sub> -based Nanofluid: a Potential Heat Transfer Agent. Journal of Superconductivity and Novel Magnetism, 2019, 32, 341-351.	0.8	16



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127	Impact of trivalent metal ion substitution on structural, optical, magnetic and dielectric properties of Li <sub>0.5</sub> Fe <sub>2.5</sub> O <sub>4</sub> thin films. <i>Physica B: Condensed Matter</i> , 2019, 566, 43-49.	1.3	16
128	Effect of Al doping on the cation distribution in copper ferrite nanoparticles and their structural and magnetic properties. <i>Journal of the Korean Physical Society</i> , 2012, 61, 568-574.	0.3	15
129	Synthesis and characterization of water based NiFe <sub>2</sub> O <sub>4</sub> ferrofluid. <i>AIP Conference Proceedings</i> , 2017, ,	0.3	15
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