

# Sher Singh Meena

## List of Publications by Year in descending order

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228  
papers

6,179  
citations

57758

44  
h-index

102487

66  
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229  
all docs

229  
docs citations

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times ranked

5061  
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction heating studies of Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles capped with oleic acid and polyethylene glycol for hyperthermia. <i>Journal of Materials Chemistry</i> , 2011, 21, 13388.	6.7	298
2	Verwey Transition in Ultrasmall-Sized Octahedral Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19356-19362.	3.1	159
3	Sol-gel synthesis, structural and magnetic properties of nanoscale M-type barium hexaferrites Ba <sub>1-x</sub> Co <sub>x</sub> Zr <sub>x</sub> Fe <sub>12-2x</sub> O <sub>19</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 350, 23-29.	2.3	157
4	Improved magnetic properties of Cr <sup>3+</sup> doped SrFe <sub>12</sub> O <sub>19</sub> synthesized via microwave hydrothermal route. <i>Materials Research Bulletin</i> , 2015, 63, 58-66.	5.2	150
5	Structural, magnetic and dielectric properties of Co-Zr substituted M-type calcium hexagonal ferrite nanoparticles in the presence of $\text{Fe}_2\text{O}_3$ phase. <i>Ceramics International</i> , 2018, 44, 17812-17823.	4.8	131
6	Influence of rare earth ion doping (Ce and Dy) on electrical and magnetic properties of cobalt ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 319-327.	2.3	130
7	Influence of Co <sup>2+</sup> distribution and spin-orbit coupling on the resultant magnetic properties of spinel cobalt ferrite nanocrystals. <i>Journal of Alloys and Compounds</i> , 2013, 566, 54-61.	5.5	123
8	Size dependent magnetic and dielectric properties of nano CoFe <sub>2</sub> O <sub>4</sub> prepared by a salt assisted gel-combustion method. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	118
9	Cobalt substituted nickel ferrites via Pechini sol-gel citrate route: X-band electromagnetic characterization. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 430-445.	2.3	109
10	Structural refinement and photocatalytic activity of Fe-doped anatase TiO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , 2012, 263, 536-545.	6.1	108
11	Influence of Mg substitution on structural, magnetic and dielectric properties of X-type barium zinc hexaferrites Ba <sub>2</sub> Zn <sub>2-x</sub> Mg <sub>x</sub> Fe <sub>28</sub> O <sub>46</sub> . <i>Journal of Alloys and Compounds</i> , 2018, 741, 377-391.	5.5	100
12	XRD, EDX, FTIR and ESR spectroscopic studies of co-precipitated Mn <sup>2+</sup> substituted Zn <sup>2+</sup> ferrite nanoparticles. <i>Ceramics International</i> , 2019, 45, 8037-8044.	4.8	93
13	Catalytic activities of cobalt, nickel and copper ferrosinels for sulfuric acid decomposition: The high temperature step in the sulfur based thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4768-4780.	7.1	90
14	Effect of site preferences on structural and magnetic switching properties of Co <sup>2+</sup> /Zr doped strontium hexaferrite SrCo <sub>x</sub> Zr <sub>x</sub> Fe <sub>12-2x</sub> O <sub>19</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 84-91.	2.3	86
15	Elucidation of phase evolution, microstructural, Mössbauer and magnetic properties of Co <sup>2+</sup> /Al <sup>3+</sup> doped M-type Ba/Sr hexaferrites synthesized by a ceramic method. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1112-1121.	5.5	86
16	Compositional variability of glauconites within the Upper Cretaceous Karai Shale Formation, Cauvery Basin, India: Implications for evaluation of stratigraphic condensation. <i>Sedimentary Geology</i> , 2016, 331, 12-29.	2.1	82
17	Structural and magnetic characterization of co-precipitated Ni/Zn <sup>2+</sup> Fe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 407, 135-141.	2.3	74
18	Influence of rare earth (Nd <sup>3+</sup> ) doping on structural and magnetic properties of nanocrystalline manganese-zinc ferrite. <i>Materials Chemistry and Physics</i> , 2017, 191, 215-224.	4.0	70

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19	Structural and magnetic properties of CuFe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles synthesized by cow urine assisted combustion method. Journal of Magnetism and Magnetic Materials, 2019, 484, 120-125.	2.3	69
20	Synthesis of Low Coercive BaFe <sub>12</sub> O <sub>19</sub> Hexaferrite for Microwave Applications in Low-Temperature Cofired Ceramic. Journal of Electronic Materials, 2013, 42, 761-768.	2.2	65
21	Nanostructured Fe <sub>2</sub> O <sub>3</sub> dispersed on SiO <sub>2</sub> as catalyst for high temperature sulfuric acid decomposition—Structural and morphological modifications on catalytic use and relevance of Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> interactions. Applied Catalysis B: Environmental, 2017, 217, 154-168.	20.2	65
22	Preparation and study of magnetic properties of silico phosphate glass and glass-ceramics having iron and zinc oxide. Journal of Magnetism and Magnetic Materials, 2009, 321, 3821-3828.	2.3	63
23	Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn <sup>2+</sup> –Ti <sup>4+</sup> ion substituted CoFe <sub>2</sub> O <sub>4</sub> . RSC Advances, 2015, 5, 91482-91492.	3.6	62
24	Mössbauer, Raman, and Magnetoresistance Study of Aluminum-Based Iron Oxide Thin Films. Journal of Physical Chemistry C, 2011, 115, 3731-3736.	3.1	61
25	Distribution of cations in Co <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> using XRD, magnetization and Mössbauer spectroscopy. Journal of Alloys and Compounds, 2015, 646, 550-556.	5.5	61
26	Synthesis of Co-Zr doped nanocrystalline strontium hexaferrites by sol-gel auto-combustion route using sucrose as fuel and study of their structural, magnetic and electrical properties. Ceramics International, 2016, 42, 14475-14489.	4.8	61
27	Stabilization of temperature during magnetic hyperthermia by Ce substituted magnetite nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 434, 181-186.	2.3	61
28	Correlation between site preference and magnetic properties of Co–Zr doped BaCo <sub>x</sub> Zr <sub>x</sub> Fe <sub>2</sub> O <sub>19</sub> prepared under sol-gel and citrate precursor sol-gel conditions. Journal of Alloys and Compounds, 2014, 615, 875-881.	5.5	59
29	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.	2.3	58
30	Exploring the structural, Mössbauer and dielectric properties of Co <sup>2+</sup> incorporated Mg <sub>0.5</sub> Zn <sub>0.5-x</sub> Co <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystalline ferrite. Journal of Magnetism and Magnetic Materials, 2014, 360, 21-33.	2.3	55
31	Cations distribution and magnetic properties of Co–Zr doped BaCo <sub>x</sub> Zr <sub>x</sub> Fe <sub>2</sub> O <sub>19</sub> prepared via citrate precursor sol-gel route. Ceramics International, 2014, 40, 16617-16626.	4.8	55
32	Zn <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> (0.01 ≤ x ≤ 0.8) nanoparticles for controlled magnetic hyperthermia application. New Journal of Chemistry, 2018, 42, 7144-7153.	2.8	55
33	Structural and electron spin resonance spectroscopic studies of Mn Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> (x = 0.5, 0.6, 0.7) nanoferrites synthesized by sol-gel auto combustion method. Journal of Magnetism and Magnetic Materials, 2018, 466, 60-68.	2.3	53
34	Fe <sub>3</sub> C nanoparticles for magnetic hyperthermia application. Journal of Magnetism and Magnetic Materials, 2019, 481, 251-256.	2.3	51
35	Enhanced dielectric, magnetic and optical properties of Cr-doped BiFeO <sub>3</sub> multiferroic nanoparticles synthesized by sol-gel route. Results in Physics, 2019, 13, 102299.	4.1	50
36	Effect of Fuel on the Synthesis, Structural, and Magnetic Properties of M-Type Hexagonal SrFe <sub>12</sub> O <sub>19</sub> Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1589-1599.	1.8	49

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37	Investigation of structural and magnetic properties of co-precipitated Mn <sup>2+</sup> /Ni ferrite nanoparticles in the presence of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> phase. Journal of Magnetism and Magnetic Materials, 2015, 392, 101-106.	2.3	49
38	The distinctive compositional evolution of glauconite in the Cretaceous Ukra Hill Member (Kutch) Tj ETQq0 0 0 rgBTJ (Overlock 10 Tf 50	3.3	49
39	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.	4.8	49
40	Modulation of physico-chemical, magnetic, microwave and electromagnetic properties of nanocrystalline strontium hexaferrite by Co-Zr doping synthesized using citrate precursor sol-gel method. Ceramics International, 2017, 43, 590-598.	4.8	48
41	Investigation of cation distribution and magnetocrystalline anisotropy of Ni <sub>x</sub> Co <sub>0.1</sub> Zn <sub>0.9</sub> Fe <sub>2</sub> O <sub>4</sub> nanoferrites: Role of constant mole percent of Cu <sup>2+</sup> dopant in place of Zn <sup>2+</sup> . Ceramics International, 2017, 43, 7984-7991.	4.8	47
42	Catalytic properties of dispersed iron oxides Fe <sub>2</sub> O <sub>3</sub> /MO <sub>2</sub> (M=Zr, Ce, Ti and Si) for sulfuric acid decomposition reaction: Role of support. International Journal of Hydrogen Energy, 2018, 43, 37-52.	7.1	47
43	Manganese ferrite prepared using reverse micelle process: Structural and magnetic properties characterization. Journal of Alloys and Compounds, 2015, 642, 70-77.	5.5	46
44	Distinctive compositional characteristics and evolutionary trend of Precambrian glaucony: Example from Bhalukona Formation, Chhattisgarh basin, India. Precambrian Research, 2015, 271, 33-48.	2.7	45
45	Structural and magnetic properties of glass-ceramics containing silver and iron oxide. Materials Chemistry and Physics, 2012, 133, 144-150.	4.0	44
46	Synthesis of nanosize and sintered Mn <sub>0.3</sub> Ni <sub>0.3</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite and their structural and dielectric studies. Journal of Alloys and Compounds, 2013, 555, 225-231.	5.5	44
47	Structural and magnetic properties of spin chain compounds Ca <sub>3</sub> Co <sub>2</sub> xFe <sub>x</sub> O <sub>6</sub> . Physical Review B, 2006, 74, .	3.2	43
48	Structural, optical, elastic and magnetic properties of Ce and Dy doped cobalt ferrites. Journal of Alloys and Compounds, 2020, 834, 155089.	5.5	43
49	Structural, thermal and magnetic studies of Mg <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoferrites: Study of exchange interactions on magnetic anisotropy. Ceramics International, 2016, 42, 19179-19186.	4.8	42
50	Facile single phase synthesis of Sr, Co co-doped BiFeO <sub>3</sub> nanoparticles for boosting photocatalytic and magnetic properties. Applied Surface Science, 2019, 493, 593-604.	6.1	42
51	Preparation and studies on surface modifications of calcium-silico-phosphate ferrimagnetic glass-ceramics in simulated body fluid. Materials Science and Engineering C, 2009, 29, 2226-2233.	7.3	41
52	Electrical resistivity and Mössbauer studies of Cr substituted Co nano ferrites. Journal of Alloys and Compounds, 2017, 694, 366-374.	5.5	41
53	Gamma radiation roused lattice contraction effects investigated by Mössbauer spectroscopy in nanoparticle Mn <sup>2+</sup> /Zn ferrite. Radiation Physics and Chemistry, 2014, 102, 147-152.	2.8	39
54	Modified surface and bulk properties of Fe-substituted lanthanum titanates enhances catalytic activity for CO+N <sub>2</sub> O reaction. Journal of Molecular Catalysis A, 2011, 335, 158-168.	4.8	36

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55	Influence of Co <sup>4+</sup> -Ca <sup>2+</sup> substitution on structural, microstructure, magnetic, electrical and impedance characteristics of M-type barium-strontium hexagonal ferrites. <i>Ceramics International</i> , 2020, 46, 24816-24830.	4.8	36
56	β-Fe <sub>2</sub> O <sub>3</sub> nanoflowers as efficient magnetic hyperthermia and photothermal agent. <i>Applied Surface Science</i> , 2021, 560, 150025.	6.1	36
57	High temperature dielectric studies of indium-substituted NiCuZn nanoferrites. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 112, 29-36.	4.0	34
58	Multiferroic properties of microwave sintered BaTiO <sub>3</sub> -SrFe <sub>12</sub> O <sub>19</sub> composites. <i>Physica B: Condensed Matter</i> , 2014, 448, 323-326.	2.7	33
59	Catalytic and redox properties of nano-sized La <sub>0.8</sub> Sr <sub>0.2</sub> Mn <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> mixed oxides synthesized by different routes. <i>Journal of Molecular Catalysis A</i> , 2006, 246, 128-135.	4.8	32
60	Study of structural, electrical and magnetic properties of Cr doped Ni-Mg ferrite nanoparticle. <i>Journal of Alloys and Compounds</i> , 2014, 602, 150-156.	5.5	32
61	Structural and magnetic characterization of Zr-substituted magnetite (Zr <sub>x</sub> Fe <sub>3</sub> xO <sub>4</sub> , 0 ≤ x ≤ 1). <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 559-566.	2.3	32
62	Crystal structure and magnetic properties of Bi <sub>0.8</sub> A <sub>0.2</sub> FeO <sub>3</sub> (A = La, Ca, Sr, Ba) multiferroics using neutron diffraction and Mossbauer spectroscopy. <i>AIP Advances</i> , 2014, 4, .	1.3	31
63	Magnetic and dielectric properties of Zn substituted cobalt oxide nanoparticles. <i>Ceramics International</i> , 2019, 45, 16512-16520.	4.8	31
64	Synthesis of exchange coupled nanoflowers for efficient magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 484, 437-444.	2.3	31
65	Influence of samarium doping on structural, elastic, magnetic, dielectric, and electrical properties of nanocrystalline cobalt ferrite. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	31
66	Structural and magnetic properties of nanocrystalline equi-atomic spinel high-entropy oxide (AlCoFeMnNi) <sub>3</sub> O <sub>4</sub> synthesised by microwave assisted co-precipitation technique. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160269.	5.5	31
67	Investigation of structural, magnetic and dielectric properties of gallium substituted Z-type Sr <sub>3</sub> Co <sub>2</sub> -Ga <sub>1</sub> Fe <sub>24</sub> O <sub>41</sub> hexaferrites for microwave absorbers. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153470.	5.5	30
68	Effect of heating temperature on structural, magnetic, and dielectric properties of Magnesium ferrites prepared in the presence of Solanum Lycopersicum fruit extract. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18445-18463.	2.2	30
69	Nano-aggregates of hexacyanoferrate (II)-loaded magnetite for removal of cesium from radioactive wastes. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 267, 335-340.	2.3	29
70	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO <sub>3</sub> ) <sub>3</sub> ] Sodium Battery Insertion Material: Structural and Electrochemical Insights. <i>Inorganic Chemistry</i> , 2017, 56, 5918-5929.	4.0	29
71	Design and development of Ga-substituted Z-type hexaferrites for microwave absorber applications: Mössbauer, static and dynamic properties. <i>Ceramics International</i> , 2021, 47, 1145-1162.	4.8	29
72	Physical and chemical properties of nanoscale magnetite-based solvent extractant. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 8-14.	2.3	28

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73	Spin reorientation behavior in $\text{YMn}_{1-x}\text{MxO}_3$ (M=Ti, Fe, Ga; x=0, 0.1). Journal of Magnetism and Magnetic Materials, 2013, 348, 120-127.	2.3	28
74	Core-Shell Prussian Blue Analogue Molecular Magnet $\text{Mn}_{1.5}[\text{Cr}(\text{CN})_6]_x\text{H}_2\text{O}@\text{Ni}_{1.5}[\text{Cr}(\text{CN})_6]_x$ for Hydrogen Storage. ACS Applied Materials & Interfaces, 2014, 6, 17579-17588.	4.0	28
75	Structural and magnetic investigations: Study of magnetocrystalline anisotropy and magnetic behavior of 0.1% $\text{Cu}^{2+}$ substituted $\text{Ni-Zn}$ ferrite nanoparticles. Ceramics International, 2018, 44, 1193-1200.	4.8	28
76	Studies of structural, magnetic and dielectric properties of X-type Barium Zinc hexaferrite $\text{Ba}_2\text{Zn}_2\text{Fe}_{28}\text{O}_{46}$ powder prepared by combustion treatment method using ginger root extract as a green reducing agent. Journal of Alloys and Compounds, 2020, 842, 155120.	5.5	28
77	Study of structural and magnetic properties of $(\text{Co-Cu})\text{Fe}_2\text{O}_4/\text{PANI}$ composites. Materials Chemistry and Physics, 2013, 141, 406-415.	4.0	27
78	Controlled synthesis and enhanced tunnelling magnetoresistance in oriented $\text{Fe}_3\text{O}_4$ nanorod assemblies. Journal Physics D: Applied Physics, 2018, 51, 085002.	2.8	27
79	Investigation on structural, hysteresis, Mössbauer properties and electrical parameters of lightly Erbium substituted X-type $\text{Ba}_2\text{Co}_2\text{Er}_{1-x}\text{Fe}_{28-x}\text{O}_{46}$ hexaferrites. Ceramics International, 2020, 46, 8209-8226.	4.8	27
80	Evaluation of structural and dielectric properties of $\text{Mn}^{2+}$ -substituted Zn-spinel ferrite nanoparticles for gas sensor applications. Sensors and Actuators B: Chemical, 2020, 316, 128127.	7.8	27
81	Large tunneling magnetoresistance in octahedral $\text{Fe}_3\text{O}_4$ nanoparticles. AIP Advances, 2016, 6, .	1.3	26
82	Study of structural and magnetic properties of $\text{Li-Ni}$ nanoferrites synthesized by citrate-gel auto combustion method. Ceramics International, 2016, 42, 2941-2950.	4.8	26
83	Quantification of site disorder and its role on spin polarization in the nearly half-metallic Heusler alloy $\text{NiFeMnSn}$ . Physical Review B, 2016, 94, .	3.2	25
84	Biocompatible suspension of nanosized $\text{Fe}_3\text{O}_4$ synthesized by novel methods. Journal of Applied Physics, 2005, 97, 10Q903.	2.5	24
85	Investigation of structural, dielectric, magnetic and antibacterial activity of $\text{Cu-Cd-Ni-FeO}_4$ nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 341, 148-157.	2.3	24
86	Evidence for the Existence of Oxygen Clustering and Understanding of Structural Disorder in Prussian Blue Analogues Molecular Magnet $\text{M}_{1.5}[\text{Cr}(\text{CN})_6]_x\text{H}_2\text{O}$ (M = Fe and Co): Reverse Monte Carlo Simulation and Neutron Diffraction Study. Journal of Physical Chemistry C, 2013, 117, 2676-2687.	3.1	24
87	Immobilization of crystalline $\text{Fe}_2\text{O}_3$ nanoparticles over $\text{SiO}_2$ for creating an active and stable catalyst: A demand for high temperature sulfuric acid decomposition. Applied Catalysis B: Environmental, 2021, 283, 119610.	20.2	24
88	Nanoscale-driven structural changes and associated superparamagnetism in magnetically diluted $\text{Ni-Zn}$ ferrites. Materials Chemistry Frontiers, 2018, 2, 300-312.	5.9	23
89	Enhanced electrical, magnetic and optical behaviour of Cr doped $\text{Bi}_{0.98}\text{Ho}_{0.02}\text{FeO}_3$ nanoparticles. Journal of Alloys and Compounds, 2019, 796, 229-236.	5.5	23
90	Glauconite authigenesis during the onset of the Paleocene-Eocene Thermal Maximum: A case study from the Khuiala Formation in Jaisalmer Basin, India. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 571, 110388.	2.3	23

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91	Phase separations in $\text{La}_{0.7-x}\text{Dy}_x\text{Ca}_{0.3}\text{Mn}(\text{Fe})\text{O}_3$ . <i>Physical Review B</i> , 2005, 71, .	3.2	22
92	Magnetic proximity effect in ferrimagnetic-ferromagnetic core-shell Prussian blue analogues molecular magnet. <i>Chemical Physics Letters</i> , 2016, 651, 155-160.	2.6	22
93	Structural investigations on Mo, Cs and Ba ions-loaded iron phosphate glass for nuclear waste storage application. <i>Journal of Alloys and Compounds</i> , 2021, 850, 156715.	5.5	22
94	Influence of $\text{Ni}^{2+}$ substitution on the structural, dielectric and magnetic properties of $\text{Cu}^{2+}$ Cd ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 573, 198-204.	5.5	21
95	Quaternary ammonium bearing hyper-crosslinked polymer encapsulation on $\text{Fe}_3\text{O}_4$ nanoparticles. <i>RSC Advances</i> , 2016, 6, 21317-21325.	3.6	21
96	Study of Higher Discharge Capacity, Phase Transition, and Relative Structural Stability in $\text{Li}_2\text{FeSiO}_4$ Cathode upon Lithium Extraction Using an Experimental and Theoretical Approach and Full Cell Prototype Study. <i>ACS Applied Energy Materials</i> , 2019, 2, 6584-6598.	5.1	21
97	Study of structural, vibrational, elastic and magnetic properties of uniaxial anisotropic Ni-Zn nanoferrites in the context of cation distribution and magnetocrystalline anisotropy. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159748.	5.5	21
98	Transport and magnetic properties of Fe doped $\text{CaMnO}_3$ . <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	20
99	A facile gel-combustion route for fine particle synthesis of spinel ferrichromite: X-ray and Mössbauer study on effect of Mg and Ni content. <i>Materials Research Bulletin</i> , 2014, 50, 172-177.	5.2	20
100	Superparamagnetic behavior of indium substituted NiCuZn nano ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 416-421.	2.3	20
101	Anisotropy and domain state dependent enhancement of single domain ferrimagnetism in cobalt substituted $\text{Ni}^{2+}$ Zn ferrites. <i>New Journal of Chemistry</i> , 2016, 40, 9275-9284.	2.8	20
102	Structural phases and Maxwell-Wagner relaxation in magnetically soft- $\text{ZnFe}_2\text{O}_4$ and hard- $\text{Sr}_2\text{Cu}_2\text{Fe}_{12}\text{O}_{22}$ nanocomposites. <i>Ceramics International</i> , 2016, 42, 2289-2298.	4.8	20
103	Optimization of lithium content in $\text{LiFePO}_4$ for superior electrochemical performance: the role of impurities. <i>RSC Advances</i> , 2018, 8, 1140-1147.	3.6	20
104	High Mg-glaucanite in the Campanian Duwi Formation of Abu Tartur Plateau, Egypt and its implications. <i>Journal of African Earth Sciences</i> , 2019, 156, 12-25.	2.0	20
105	$\text{TiO}_2$ -Doped $\text{Ni}_{0.4}\text{Cu}_{0.3}\text{Zn}_{0.3}\text{Fe}_2\text{O}_4$ Nanoparticles for Enhanced Structural and Magnetic Properties. <i>ACS Omega</i> , 2021, 6, 17931-17940.	3.5	20
106	Synthesis of CoFe Prussian blue analogue/poly vinylidene fluoride nanocomposite material with improved thermal stability and ferroelectric properties. <i>New Journal of Chemistry</i> , 2018, 42, 4567-4578.	2.8	19
107	Stability of ferroelectric phases and magnetoelectric response in multiferroic $(1-x)\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-PbTiO}_3/x\text{Ni}_0.6\text{Zn}_0.4\text{Fe}_2\text{O}_4$ particulate composites. <i>Ceramics International</i> , 2019, 45, 23013-23021.	4.8	19
108	Multiferroic properties and Mössbauer Study of M-type hexaferrite $\text{PbFe}_{12}\text{O}_{19}$ synthesized by the high energy ball milling. <i>Materials Characterization</i> , 2021, 177, 111168.	4.4	18

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109	BaTiO <sub>3</sub> /(Co <sub>0.8</sub> Ni <sub>0.1</sub> Mn <sub>0.1</sub> Fe <sub>1.9</sub> Ce <sub>0.1</sub> O <sub>4</sub> ) composites: Analysis of the effect of Co <sub>0.8</sub> Ni <sub>0.1</sub> Mn <sub>0.1</sub> Fe <sub>1.9</sub> Ce <sub>0.1</sub> O <sub>4</sub> doping at different concentrations on the structural, morphological, optical, magnetic, and magnetoelectric coupling properties of BaTiO <sub>3</sub> . <i>Ceramics International</i> , 2022, 48, 30499-30509.	4.8	18
110	Rietveld refinement and FTIR spectroscopic studies of Ni <sup>2+</sup> -substituted Zn-ferrite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	17
111	Effect of cobalt-doping on dielectric, magnetic and optical properties of BiFeO <sub>3</sub> nanocrystals synthesized by sol-gel technique. <i>Solid State Sciences</i> , 2020, 102, 106168.	3.2	17
112	Hydrothermally synthesized oxalate and phenanthroline based ferrimagnetic one-dimensional spin chain molecular magnets [ $\{Fe(\overset{\cdot}{\cdot})Fe(\overset{\cdot}{\cdot})\}_x\{Cr(\overset{\cdot}{\cdot})Cr(\overset{\cdot}{\cdot})\}_x(ox)_2(phen)_2$ ] <sub>n</sub> (x = 0, 0.1 and 0.5) with giant coercivity of 3.2 Tesla. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6637.	5.5	16
113	Magnetic and dielectric behavior in YMn <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> (x = 0.5). <i>Journal of Applied Physics</i> , 2014, 115, 213901.	2.9	16
114	Effects of sintering temperature on microstructure, initial permeability and electric behaviour of Ni-Mn-Zn ferrites. <i>Materials Chemistry and Physics</i> , 2022, 275, 125250.	4.0	16
115	Investigation of magnetic properties for Hf <sup>4+</sup> substituted CeO <sub>2</sub> nanoparticles for spintronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10614-10623.	2.2	15
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