

Pattayil A Joy

List of Publications by Year in descending order

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204
papers

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citations

28274

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207
all docs

207
docs citations

207
times ranked

9919
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetostriction studies on transition metal substituted cobalt ferrite. Journal of the Indian Chemical Society, 2022, 99, 100599.	2.8	3
2	Correlation between the structure and dielectric constant of Bi _{0.5} (Na _{1-x} Li _x) _{0.5} TiO ₃ (0 ≤ x ≤ 0.20) solid solutions. International Journal of Ceramic Engineering & Science, 2021, 3, 49-56.	1.2	0
3	Synthesis, crystal structures, dielectric and magnetic properties of manganese sulfonyldibenzoates. CrystEngComm, 2021, 23, 6703-6723.	2.6	5
4	A review of the recent progress on thermal conductivity of nanofluid. Journal of Molecular Liquids, 2021, 338, 116929.	4.9	70
5	Possible electron doping of geometrically perfect spin-1/2 kagome-lattice barlowite by reduced graphene oxide. Physical Review B, 2021, 104, .	3.2	3
6	Magnetic and Magnetoelastic Properties of Ni-Substituted Cobalt Ferrite. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	5
7	Integrating Structurally Perfect $S = 1/2$ Kagome-Lattice with Reduced Graphene Oxide. Journal of Physical Chemistry C, 2020, 124, 19753-19759.	3.1	2
8	Magnetism in bimetallic NiII-Coll coordination polymer. AIP Conference Proceedings, 2020, , .	0.4	0
9	Particle size effect in different base fluids on the thermal conductivity of fatty acid coated magnetite nanofluids. Journal of Molecular Liquids, 2020, 303, 112650.	4.9	17
10	Dual responsive cellulose microspheres with high solid-state fluorescence emission. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 591, 124510.	4.7	4
11	Exploring Magnetic XY Behavior in a Quasi-2D Anisotropic Triangular Lattice of Cu(II) by Functionalized Graphene. Inorganic Chemistry, 2020, 59, 6214-6219.	4.0	2
12	Size-controlled Cobalt Ferrite Nanocrystals: Magnetically separable Reusable Nanocatalysts for Selective Oxidation of Styrene. ChemistrySelect, 2019, 4, 6524-6531.	1.5	5
13	Raman and ²³ Na solid-state NMR studies on the lead-free ferroelectrics Bi _{0.5} (Na _{1-x} K _x) _{0.5} TiO ₃ in the morphotropic phase boundary region. Materials Research Bulletin, 2019, 118, 110506.	5.2	8
14	Embedding $S = 1/2$ Kagome-like Lattice in Reduced Graphene Oxide. Journal of Physical Chemistry Letters, 2019, 10, 2663-2668.	4.6	6
15	A stealth emulsion based on natural rubber latex, core-shell ferrofluid/carbon black in the S and X bands. Nanotechnology, 2019, 30, 315703.	2.6	4
16	Magnetic properties of sintered CoFe ₂ O ₄ /BaTiO ₃ particulate magnetoelectric composites. Ceramics International, 2019, 45, 12307-12311.	4.8	30
17	Magnetic parameters of SrFe ₁₂ O ₁₉ sintered from a mixture of nanocrystalline and micron-sized powders. Ceramics International, 2019, 45, 13592-13596.	4.8	19
18	Effect of co-substitution of Co ²⁺ and V ⁵⁺ for Fe ³⁺ on the magnetic properties of CoFe ₂ O ₄ . Physica B: Condensed Matter, 2019, 554, 107-113.	2.7	11

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19	Large enhancement in the magnetostriction parameters of the composite of CoFe ₂ O ₄ and CoFe _{1.9} Ga _{0.1} O ₄ . <i>Materials Letters</i> , 2019, 236, 303-306.	2.6	12
20	Magnetically tunable liquid dielectric with giant dielectric permittivity based on core-shell superparamagnetic iron oxide. <i>Nanotechnology</i> , 2018, 29, 265707.	2.6	8
21	Structural and magnetic properties of La ₂ Ni ²⁺ Co MnO ₆ compounds. <i>Materials Research Bulletin</i> , 2018, 102, 248-256.	5.2	16
22	Enhanced strain sensitivity in magnetostrictive spinel ferrite Co _{1-x} Zn _x Fe ₂ O ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 150-154.	2.3	32
23	Structural characterization and magnetic properties of undoped and copper-doped cobalt ferrite nanoparticles prepared by the octanoate coprecipitation route at very low dopant concentrations. <i>RSC Advances</i> , 2018, 8, 38621-38630.	3.6	44
24	Spin state engineered Zn _x Co _{3-x} O ₄ as an efficient oxygen evolution electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29452-29461.	2.8	29
25	Metamagnetism in Nanosheets of Co ^{II} -MOF with <i>T_N</i> at 26 K and a Giant Hysteretic Effect at 5 K. <i>Inorganic Chemistry</i> , 2018, 57, 15044-15047.	4.0	8
26	Thermal conductivity studies on magnetite nanofluids coated with short-chain and long-chain fatty acid surfactants. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	10
27	Influence of chain length of long-chain fatty acid surfactant on the thermal conductivity of magnetite nanofluids in a magnetic field. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 525-531.	4.7	27
28	Structural, magnetic, dielectric and magnetodielectric properties of Bi _{1-x} Ca _x Fe _{1-x} Mn _x O ₃ in the morphotropic phase boundary region. <i>Materials Research Express</i> , 2017, 4, 016104.		3
29	Defect induced modification of structural, topographical and magnetic properties of zinc ferrite thin films by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 396, 68-74.	1.4	17
30	Tuning of the magnetostrictive properties of cobalt ferrite by forced distribution of substituted divalent metal ions at different crystallographic sites. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	49
31	High magnetostriction parameters of sintered and magnetic field annealed Ga-substituted CoFe ₂ O ₄ . <i>Materials Letters</i> , 2017, 192, 169-172.	2.6	21
32	Effect of size and site preference of trivalent non-magnetic metal ions (Al ³⁺ ,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 232 Td</i> properties of sintered CoFe ₂ O ₄ . <i>Journal Physics D: Applied Physics</i> , 2017, 50, 435005.	2.8	36
33	Studies on the role of unsaturation in the fatty acid surfactant molecule on the thermal conductivity of magnetite nanofluids. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 162-168.	9.4	24
34	Magnetoelastic properties of terbium substituted cobalt ferrite. <i>Chemical Physics Letters</i> , 2017, 685, 465-469.	2.6	5
35	Role of localized graphitization on the electrical and magnetic properties of activated carbon. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5151-5161.	3.8	19
36	Role of base fluid on the thermal conductivity of oleic acid coated magnetite nanofluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 922-929.	4.7	23

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37	Role of Primary and Secondary Surfactant Layers on the Thermal Conductivity of Lauric Acid Coated Magnetite Nanofluids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11640-11651.	3.1	35
38	Enhancing the strain sensitivity of $\text{CoFe}_{2}\text{O}_{4}$ at low magnetic fields without affecting the magnetostriction coefficient by substitution of small amounts of Mg for Fe. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10516-10527.	2.8	122
39	Cross over from 3D variable range hopping to the 2D weak localization conduction mechanism in disordered carbon with the extent of graphitization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16178-16185.	2.8	20
40	$\text{Co}_{3}\text{O}_{4}$ Nanorods—Efficient Non-noble Metal Electrocatalyst for Oxygen Evolution at Neutral pH. <i>Electrocatalysis</i> , 2015, 6, 331-340.	3.0	66
41	Preparation and characterization of flexible ferromagnetic nanocomposites for microwave applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 200, 40-49.	3.5	7
42	Correlations between structure, microstructure, density and dielectric properties of the lead-free ferroelectrics $\text{Bi}_{0.5}(\text{Na,K})_{0.5}\text{TiO}_{3}$. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550028.	2.4	13
43	Citrate modified β -cyclodextrin functionalized magnetite nanoparticles: a biocompatible platform for hydrophobic drug delivery. <i>RSC Advances</i> , 2015, 5, 22117-22125.	3.6	33
44	Coconut shell based activated carbon—iron oxide magnetic nanocomposite for fast and efficient removal of oil spills. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2068-2075.	6.7	95
45	Magnetic and magnetostrictive properties of aluminium substituted cobalt ferrite synthesized by citrate-gel method. <i>Journal of Materials Science</i> , 2015, 50, 6510-6517.	3.7	43
46	Tuning Magnetic Behavior of Nanoscale Cobalt Sulfide and Its Nanocomposite with an Engineering Thermoplastic. <i>Journal of Electronic Materials</i> , 2015, 44, 2308-2311.	2.2	10
47	Water-dispersible ascorbic-acid-coated magnetite nanoparticles for contrast enhancement in MRI. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 435-441.	3.1	91
48	Identification of the Zn Substitution Sites in $\text{La}_{1-x}\text{Zn}_{x}\text{SrAl}_{12}\text{O}_{19}$ from ^{27}Al Solid-State NMR Studies. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2990-2995.	3.8	2
49	Magnetism in disordered carbon as a function of the extent of graphitization. <i>Solid State Communications</i> , 2014, 177, 89-94.	1.9	8
50	Synthesis and Reactivity of Magnetically Diverse Au@Ni Core—Shell Nanostructures. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 236-244.	2.3	17
51	Studies on the effect of sintering conditions on the magnetostriction characteristics of cobalt ferrite derived from nanocrystalline powders. <i>Journal of the European Ceramic Society</i> , 2014, 34, 677-686.	5.7	32
52	Flexible microwave absorbers based on barium hexaferrite, carbon black, and nitrile rubber for 2–12 GHz applications. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	50
53	High magnetostriction parameters for low-temperature sintered cobalt ferrite obtained by two-stage sintering. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 371, 121-129.	2.3	35
54	Ferromagnetism at room temperature in activated graphene oxide. <i>Chemical Physics Letters</i> , 2014, 605-606, 89-92.	2.6	14

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55	Curcumin Encapsulated Superparamagnetic Iron Oxide Based Nanofluids for Possible Multifunctional Applications. Journal of Nanofluids, 2014, 3, 1-7.	2.7	8
56	High magnetostriction coefficient of Mn substituted cobalt ferrite sintered from nanocrystalline powders and after magnetic field annealing. Current Applied Physics, 2013, 13, 1697-1701.	2.4	26
57	Influence of initial particle size on the magnetostriction of sintered cobalt ferrite derived from nanocrystalline powders. Journal of Magnetism and Magnetic Materials, 2013, 346, 96-102.	2.3	31
58	Porous Co ₃ O ₄ nanorods as superior electrode material for supercapacitors and rechargeable Li-ion batteries. Journal of Applied Electrochemistry, 2013, 43, 995-1003.	2.9	36
59	Evolution and magnetic characteristics of NiO@Ni(OH) ₂ core-shell nanostructures. Physical Chemistry Chemical Physics, 2013, 15, 20808.	2.8	19
60	Contact potential induced enhancement of magnetization in polyaniline coated nanomagnetic iron oxides by plasma polymerization. Applied Physics Letters, 2013, 103, .	3.3	9
61	Fluorescent Superparamagnetic Iron Oxide Core-shell Nanoprobes for Multimodal Cellular Imaging. Materials Express, 2012, 2, 265-274.	0.5	7
62	Enhancement in the Magnetostriction of Sintered Cobalt Ferrite by Making Self-Composites from Nanocrystalline and Bulk Powders. ACS Applied Materials & Interfaces, 2012, 4, 6421-6425.	8.0	83
63	Enhanced magnetic parameters in the morphotropic phase boundary region of nanocrystalline multiferroic Bi ¹⁺ La FeO ₃ . Solid State Communications, 2012, 152, 1609-1612.	1.9	18
64	High magnetostriction and coupling coefficient for sintered cobalt ferrite derived from superparamagnetic nanoparticles. Applied Physics Letters, 2012, 101, 072405.	3.3	57
65	Magnetic and magnetoelastic properties of Zn-doped cobalt-ferrites CoFe ₂ xZnxO ₄ (x=0, 0.1, 0.2, and 1) Tj ETQg 1 1 0.784314 rgB 146	2.3	146
66	Structural, magnetic and Mössbauer spectral studies of nanocrystalline Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ferrite powders. Journal of Alloys and Compounds, 2011, 509, 8999-9004.	5.5	32
67	Effect of inter-particle interactions on the magnetic properties of magnetite nanoparticles after coating with dextran. International Journal of Nanotechnology, 2011, 8, 907.	0.2	19
68	Preparation and characterization of magnetic nanoparticles embedded in hydrogels for protein purification and metal extraction. Journal of Polymer Research, 2011, 18, 2285-2294.	2.4	53
69	Nanostructured spinel ZnCo ₂ O ₄ for the detection of LPG. Sensors and Actuators B: Chemical, 2011, 152, 121-129.	7.8	121
70	Magnetic and electric responsive hydrogel magnetic nanocomposites for drug delivery application. Journal of Applied Polymer Science, 2011, 122, 1364-1375.	2.6	59
71	On the magnetic, mechanical and rheological properties of rubber-nickel nanocomposites. Polymer Bulletin, 2010, 64, 907-923.	3.3	11
72	Inverse magnetocaloric effect in sol-gel derived nanosized cobalt ferrite. Applied Physics A: Materials Science and Processing, 2010, 99, 497-503.	2.3	68

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73	Template-Assisted Synthesis and Characterization of Passivated Nickel Nanoparticles. <i>Nanoscale Research Letters</i> , 2010, 5, 889-897.	5.7	34
74	Synthesis of Bio-Compatible SPION [®] -based Aqueous Ferrofluids and Evaluation of RadioFrequency Power Loss for Magnetic Hyperthermia. <i>Nanoscale Research Letters</i> , 2010, 5, 1706-1711.	5.7	39
75	On the magnetic and dielectric properties of nickel [®] -neoprene nanocomposites. <i>Materials Chemistry and Physics</i> , 2010, 121, 154-160.	4.0	10
76	A simple chemical co-precipitation/calcination route for the synthesis of simulated synroc-B and synroc-C powders. <i>Materials Chemistry and Physics</i> , 2010, 123, 695-699.	4.0	6
77	Evidence for the co-existence of distorted tetrahedral and trigonal bipyramidal aluminium sites in SrAl ₁₂ O ₁₉ from ²⁷ Al NMR studies. <i>Solid State Communications</i> , 2010, 150, 262-266.	1.9	16
78	High room temperature ferromagnetic moment of Ho substituted nanocrystalline BiFeO ₃ . <i>Applied Physics Letters</i> , 2010, 97, .	3.3	45
79	Colossal thermoelectric power in Gd-Sr manganites. <i>Europhysics Letters</i> , 2010, 91, 17008.	2.0	33
80	A flexible microwave absorber based on nickel ferrite nanocomposite. <i>Journal of Alloys and Compounds</i> , 2010, 489, 297-303.	5.5	129
81	Highly sensitive and fast responding CO sensor based on Co ₃ O ₄ nanorods. <i>Talanta</i> , 2010, 81, 37-43.	5.5	128
82	Ferromagnetic to spin glass cross over in (La,Tb) _{2/3} Ca _{1/3} MnO ₃ . <i>Solid State Sciences</i> , 2009, 11, 714-718.	3.2	3
83	Solid state synthesis and room temperature magnetic properties of iron phosphide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009, 11, 491-497.	1.9	16
84	Effect of nickel nanofillers on the dielectric and magnetic properties of composites based on rubber in the X-band. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 157-165.	2.3	9
85	Synthesis of nickel [®] -rubber nanocomposites and evaluation of their dielectric properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 156, 24-31.	3.5	62
86	Ferromagnetic properties of glucose coated Cu ₂ O nanoparticles. <i>Solid State Communications</i> , 2009, 149, 2199-2201.	1.9	9
87	Impact of zinc substitution on the structural and magnetic properties of chemically derived nanosized manganese zinc mixed ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1092-1099.	2.3	99
88	Magnetic characteristics of nanocrystalline multiferroic $BiFeO_3$ at low temperatures. <i>Physical Review B</i> , 2009, 80, .	3.2	66
89	On the structural, magnetic and electrical properties of sol [®] -gel derived nanosized cobalt ferrite. <i>Journal of Alloys and Compounds</i> , 2009, 485, 711-717.	5.5	126
90	Multiferroic Behavior of Gd Based Manganite. <i>Ferroelectrics</i> , 2009, 392, 13-19.	0.6	7

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91	Origin of high room temperature ferromagnetic moment of nanocrystalline multiferroic BiFeO ₃ . Applied Physics Letters, 2009, 94, 182507.	3.3	72
92	Superparamagnetic Nanocomposite of Magnetite and Activated Carbon for Removal of Dyes from Waste Water. Nanoscience and Nanotechnology Letters, 2009, 1, 171-175.	0.4	6
93	Single Step Synthesis and Properties of M/MFe ₂ O ₄ and PVDF/M/MFe ₂ O ₄ (M = Co, Ni) Magnetic Nanocomposites. Science of Advanced Materials, 2009, 1, 262-268.	0.7	7
94	Magnetic and Mössbauer spectroscopic studies of NiZn ferrite nanoparticles synthesized by a combustion method. Hyperfine Interactions, 2008, 183, 99-107.	0.5	32
95	Enhanced shape anisotropy and magneto-optical birefringence by high energy ball milling in Ni _x Fe _{1-x} Fe ₂ O ₄ ferrofluids. Journal of Magnetism and Magnetic Materials, 2008, 320, 815-820.	2.3	4
96	Effect of Sintering Conditions and Microstructure on the Magnetostrictive Properties of Cobalt Ferrite. Journal of the American Ceramic Society, 2008, 91, 1976-1980.	3.8	73
97	Low temperature synthesis of nanocrystalline lithium ferrite by a modified citrate gel precursor method. Materials Research Bulletin, 2008, 43, 3447-3456.	5.2	21
98	Physicomechanical and Magnetic Properties of Neoprene Based Rubber Ferrite Composites. Polymer-Plastics Technology and Engineering, 2008, 47, 137-146.	1.9	14
99	$\text{La}_{1-x}\text{Mn}_{0.5-x}\text{Co}_{0.5-x}\text{O}_y$	3.2	167
100	Size Dependent Coordination Behavior and Cation Distribution in MgAl ₂ O ₄ Nanoparticles from ²⁷ Al Solid State NMR Studies. Journal of Physical Chemistry C, 2008, 112, 14737-14744.	3.1	64
101	HIGH CURIE TEMPERATURE OF NANOSIZED NiZn FERRITE PARTICLES SYNTHESIZED BY A COMBUSTION METHOD. International Journal of Nanoscience, 2008, 07, 43-49.	0.7	5
102	Superparamagnetic Nanocrystalline ZnFe ₂ O ₄ with a Very High Curie Temperature. Journal of Nanoscience and Nanotechnology, 2008, 8, 3955-3958.	0.9	19
103	Highly Active Nanostructured Co ₃ O ₄ Catalyst with Tunable Selectivity for Liquid Phase Air Oxidation of <i>p</i> -Cresol. Chemistry Letters, 2008, 37, 310-311.	1.3	18
104	Multiutility Sophorolipids as Nanoparticle Capping Agents: Synthesis of Stable and Water Dispersible Co Nanoparticles. Langmuir, 2007, 23, 11409-11412.	3.5	82
105	Enhancement of the phase transformation temperature of $\hat{\gamma}$ -Fe ₂ O ₃ by Zn ²⁺ -doping. Journal of Materials Chemistry, 2007, 17, 453-456.	6.7	27
106	Magnetic and magnetostrictive properties of manganese substituted cobalt ferrite. Journal Physics D: Applied Physics, 2007, 40, 3263-3267.	2.8	79
107	Finite size effects on the electrical properties of sol-gel synthesized CoFe ₂ O ₄ powders: deviation from Maxwell-Wagner theory and evidence of surface polarization effects. Journal Physics D: Applied Physics, 2007, 40, 1593-1602.	2.8	166
108	Direct comparison of the aging and memory effects of magnetic nanoclusters and nanoparticles. Solid State Communications, 2007, 141, 307-310.	1.9	9

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109	Synthesis and magnetic properties of Mn doped ZnO nanowires. Solid State Communications, 2007, 142, 190-194.	1.9	135
110	Studies of quenched disorder in La _{0.7} Ca _{0.3} MnO ₃ -type CMR manganite system from magnetic, transport and positron annihilation spectroscopic measurements. Physica B: Condensed Matter, 2007, 398, 23-27.	2.7	2
111	Enhanced magnetostrictive properties of CoFe ₂ O ₄ synthesized by an autocombustion method. Sensors and Actuators A: Physical, 2007, 137, 256-261.	4.1	94
112	Enhanced Permeability and Dielectric Constant of NiZn Ferrite Synthesized in Nanocrystalline Form by a Combustion Method. Journal of the American Ceramic Society, 2007, 90, 1494-1499.	3.8	62
113	Microwave-hydrothermal synthesis of ⁵⁷ Fe-Fe ₂ O ₃ nanoparticles and their magnetic properties. Materials Research Bulletin, 2007, 42, 1570-1576.	5.2	149
114	Experimental comparison of the structural, magnetic, electronic, and optical properties of ferromagnetic and paramagnetic polycrystalline Zn _{1-x} CoxO (x=0,0.05,0.1). Physical Review B, 2006, 74, .	3.2	58
115	Tuning of the magnetostrictive properties of CoFe ₂ O ₄ by Mn substitution for Co. Journal of Applied Physics, 2006, 100, 113911.	2.5	63
116	Optically transparent magnetic nanocomposites based on encapsulated Fe ₃ O ₄ nanoparticles in a sol-gel silica network. Nanotechnology, 2006, 17, 5565-5572.	2.6	29
117	Structural, magnetic and electrical properties of the sol-gel prepared Li _{0.5} Fe _{2.5} O ₄ fine particles. Journal Physics D: Applied Physics, 2006, 39, 900-910.	2.8	168
118	Swift heavy ion irradiation effects on structural and magnetic characteristics of RFeO ₃ (R=Er, Ho and Tm). Journal of Magnetism and Magnetic Materials, 2006, 305, 392-402.	1.4	11
119	Influence of magnetic (Fe ³⁺) and non-magnetic (Ga ³⁺) ion doping at Mn-site on the transport and magnetic properties of La _{0.7} Ca _{0.3} MnO ₃ . Solid State Communications, 2006, 137, 595-600.	1.9	24
120	Modifications in magnetic anisotropy of ⁶³ Co type strontium hexaferrite crystals by swift heavy ion irradiation. Journal of Magnetism and Magnetic Materials, 2006, 305, 392-402.	2.3	40
121	Characterization of nanosized NiZn ferrite powders synthesized by an autocombustion method. Materials Chemistry and Physics, 2006, 100, 98-101.	4.0	60
122	Size-dependent magnetic properties of nanocrystalline yttrium iron garnet powders. Journal of Magnetism and Magnetic Materials, 2006, 301, 212-219.	2.3	71
123	Finite size effects on the structural and magnetic properties of sol-gel synthesized NiFe ₂ O ₄ powders. Journal of Magnetism and Magnetic Materials, 2006, 302, 190-195.	2.3	439
124	Effect of thermal annealing on Fe ₄₀ Ni ₃₈ B ₁₈ Mo ₄ thin films: modified Herzer model for magnetic evolution. Journal Physics D: Applied Physics, 2006, 39, 1993-2000.	2.8	13
125	Enhanced magnetostrictive properties of Mn substituted cobalt ferrite Co _{1.2} Fe _{1.8} O ₄ . Journal of Applied Physics, 2006, 99, 073901.	2.5	79
126	Ferromagnetism induced by hydrogen in polycrystalline nonmagnetic Zn _{0.95} Co _{0.05} O. Applied Physics Letters, 2006, 89, 032508.	3.3	78

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127	Evidence for intergranular tunnelling in polyaniline passivated \pm -Fe nanoparticles. <i>Nanotechnology</i> , 2006, 17, 4765-4772.	2.6	21
128	Magnetic properties of the self-doped lanthanum manganites $\text{La}_{1-x}\text{MnO}_3$. <i>Physical Review B</i> , 2005, 72, .	3.2	46
129	Superspin glass behavior of a nonstoichiometric lanthanum manganite $\text{LaMnO}_{3.13}$. <i>Physical Review B</i> , 2005, 72, .	3.2	26
130	A Novel Low-Temperature Synthesis of Nanosized NiZn Ferrite. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2597-2599.	3.8	43
131	Electronic structure and ferromagnetism of polycrystalline $\text{Zn}_{1-x}\text{Co}_x\text{O}$ ($0 \leq x \leq 0.15$). <i>Solid State Communications</i> , 2005, 134, 665-669.	1.9	58
132	Cure Characteristics and Dielectric Properties of Magnetic Composites Containing Strontium Ferrite. <i>Journal of Elastomers and Plastics</i> , 2005, 37, 109-121.	1.5	13
133	Magnetic properties of superparamagnetic lithium ferrite nanoparticles. <i>Journal of Applied Physics</i> , 2005, 98, 124312.	2.5	77
134	Cobalt and Magnesium Ferrite Nanoparticles: Preparation Using Liquid Foams as Templates and Their Magnetic Characteristics. <i>Langmuir</i> , 2005, 21, 10638-10643.	3.5	72
135	Low-temperature synthesis of nanocrystalline powders of lithium ferrite by an autocombustion method using citric acid and glycine. <i>Materials Letters</i> , 2005, 59, 2630-2633.	2.6	43
136	Synthesis of chromium substituted nano particles of cobalt zinc ferrites by coprecipitation. <i>Materials Letters</i> , 2005, 59, 3402-3405.	2.6	60
137	Bacterial Aerobic Synthesis of Nanocrystalline Magnetite. <i>Journal of the American Chemical Society</i> , 2005, 127, 9326-9327.	13.7	190
138	Direct Observation of Ni Metal Impurities in Lightly Doped Ferromagnetic Polycrystalline $(\text{ZnNi})\text{O}$. <i>Chemistry of Materials</i> , 2005, 17, 6507-6510.	6.7	36
139	Effect of disorder on the magnetic properties of $\text{LaMn}_{0.5}\text{Fe}_{0.5}\text{O}_3$. <i>Physical Review B</i> , 2005, 72, .	3.2	74
140	Magnetic field-induced biomimetic synthesis of superparamagnetic poly (vinyl alcohol)-magnetite composite. <i>Journal of Materials Research</i> , 2004, 19, 1676-1681.	2.6	3
141	Evaluation of the Magnetic and Mechanical Properties of Rubber Ferrite Composites Containing Strontium Ferrite. <i>Polymer-Plastics Technology and Engineering</i> , 2004, 43, 1013-1028.	1.9	27
142	Synthesis of Superparamagnetic Magnesium Ferrite Nanoparticles by Microwave-Hydrothermal Method. <i>Materials Research Society Symposia Proceedings</i> , 2004, 818, 312.	0.1	5
143	Effect of mechanical milling on the structural, magnetic and dielectric properties of coprecipitated ultrafine zinc ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 269, 217-226.	2.3	206
144	Role of the rare-earth ion on the strength of the ferromagnetic exchange interactions in $\text{RMn}_{0.5}\text{M}_{0.5}\text{O}_3$ (M = Co, Ni). <i>Journal of Physics Condensed Matter</i> , 2004, 16, 155-163.	1.8	10

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145	Metastable ferromagnetic phases with predictable Tcs in La ₂ MnCo _{1-x} Ni _x O ₆ . Solid State Communications, 2004, 130, 547-550.	1.9	0
146	Structural, magnetic and Mössbauer studies on nickel-zinc ferrites synthesized via a precipitation route. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3495-3498.	0.8	32
147	Observation of higher magnetization on the substitution of Al for Co in La ₂ MnCoO ₆ . Solid State Communications, 2004, 130, 691-694.	1.9	3
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