Pattayil A Joy

List of Publications by Year
in descending order

204	9,008	28274	55	53230	85
papers	citations		h-index		g-index

207	207	207	9919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finite size effects on the structural and magnetic properties of solâ€“gel synthesized NiFe2O4 powders. Journal of Magnetism and Magnetic Materials, 2006, 302, 190-195.	2.3	439
2	Static and dynamic response of cluster glass inLa0.5Sr0.5CoO3. Physical Review B, 1996, 54, 9267-9274.	3.2	325
3	Magnetism in the layered transition-metal thiophosphatesMPS3(M=Mn, Fe, and Ni). Physical Review B, 1992, 46, 5425-5433.	3.2	312
4	Effect of mechanical milling on the structural, magnetic and dielectric properties of coprecipitated ultrafine zinc ferrite. Journal of Magnetism and Magnetic Materials, 2004, 269, 217-226.	2.3	206
5	Bacterial Aerobic Synthesis of Nanocrystalline Magnetite. Journal of the American Chemical Society, 2005, 127, 9326-9327.	13.7	190
6	The relationship between field-cooled and zero-field-cooled susceptibilities of some ordered magnetic systems. Journal of Physics Condensed Matter, 1998, 10, 11049-11054.	1.8	184
7	Synthesis of nanosized MgFe2O4 powders by microwave hydrothermal method. Materials Letters, 2004, 58, 1092-1095.	2.6	174
8	Structural, magnetic and electrical properties of the sol-gel prepared Li0.5Fe2.5O4fine particles. Journal Physics D: Applied Physics, 2006, 39, 900-910.	2.8	168
9	Local electronic structure and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">La</mml:mi><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>studied	3.2	167
10	Finite size effects on the electrical properties of solâ€“gel synthesized CoFe2O4powders: deviation from Maxwellâ€“Wagner theory and evidence of surface polarization effects. Journal Physics D: Applied Physics, 2007, 40, 1593-1602.	2.8	166
11	Microwaveâ€“hydrothermal synthesis of Î³-Fe2O3 nanoparticles and their magnetic properties. Materials Research Bulletin, 2007, 42, 1570-1576.	5.2	149
12	Magnetic and magnetoelastic properties of Zn-doped cobalt-ferritesâ€”CoFe2â^'xZnxO4 (x=0, 0.1, 0.2, and) Tj ETQq0 0 0 rgBT /Overloch	2.3	146
13	Synthesis and magnetic properties of Mn doped ZnO nanowires. Solid State Communications, 2007, 142, 190-194.	1.9	135
14	A flexible microwave absorber based on nickel ferrite nanocomposite. Journal of Alloys and Compounds, 2010, 489, 297-303.	5.5	129
15	Highly sensitive and fast responding CO sensor based on Co3O4 nanorods. Talanta, 2010, 81, 37-43.	5.5	128
16	On the structural, magnetic and electrical properties of solâ€“gel derived nanosized cobalt ferrite. Journal of Alloys and Compounds, 2009, 485, 711-717.	5.5	126
17	Enhancing the strain sensitivity of CoFe₂O₄ at low magnetic fields without affecting the magnetostriction coefficient by substitution of small amounts of Mg for Fe. Physical Chemistry Chemical Physics, 2016, 18, 10516-10527.	2.8	122
18	Nanostructured spinel ZnCo2O4 for the detection of LPG. Sensors and Actuators B: Chemical, 2011, 152, 121-129.	7.8	121

#	Article	IF	Citations
19	Two ferromagnetic phases with different spin states of Mn and Ni inLaMn0.5Ni0.5O3. Physical Review B, 2002, 65, .	3.2	114
20	Origin of the cluster-glass-like magnetic properties of the ferromagnetic system. Journal of Physics Condensed Matter, 1998, 10, L487-L493.	1.8	102
21	Impact of zinc substitution on the structural and magnetic properties of chemically derived nanosized manganese zinc mixed ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 1092-1099.	2.3	99
22	Spin states of Mn and Co inLaMn0.5Co0.5O3. Physical Review B, 2000, 62, 8608-8610.	3.2	98
23	Coconut shell based activated carbonâ€“iron oxide magnetic nanocomposite for fast and efficient removal of oil spills. Journal of Environmental Chemical Engineering, 2015, 3, 2068-2075.	6.7	95
24	Enhanced magnetostrictive properties of CoFe2O4 synthesized by an autocombustion method. Sensors and Actuators A: Physical, 2007, 137, 256-261.	4.1	94
25	Water-dispersible ascorbic-acid-coated magnetite nanoparticles for contrast enhancement in MRI. Applied Nanoscience (Switzerland), 2015, 5, 435-441.	3.1	91
26	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
27	Comparison of the zero-field-cooled magnetization behavior of some ferromagnetic and ferrimagnetic systems. Journal of Magnetism and Magnetic Materials, 2000, 218, 229-237.	2.3	82
28	Multiutility Sophorolipids as Nanoparticle Capping Agents:â€‰ Synthesis of Stable and Water Dispersible Co Nanoparticles. Langmuir, 2007, 23, 11409-11412.	3.5	82
29	Enhanced magnetostrictive properties of Mn substituted cobalt ferrite Co1.2Fe1.8O4. Journal of Applied Physics, 2006, 99, 073901.	2.5	79
30	Magnetic and magnetostrictive properties of manganese substituted cobalt ferrite. Journal Physics D: Applied Physics, 2007, 40, 3263-3267.	2.8	79
31	Ferromagnetism induced by hydrogen in polycrystalline nonmagnetic Zn0.95Co0.05O. Applied Physics Letters, 2006, 89, 032508.	3.3	78
32	Magnetic properties of superparamagnetic lithium ferrite nanoparticles. Journal of Applied Physics, 2005, 98, 124312.	2.5	77
33	Effect of disorder on the magnetic properties ofLaMn0.5Fe0.5O3. Physical Review B, 2005, 72, .	3.2	74
34	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
35	Cobalt and Magnesium Ferrite Nanoparticles:Â Preparation Using Liquid Foams as Templates and Their Magnetic Characteristics. Langmuir, 2005, 21, 10638-10643.	3.5	72
36	Origin of high room temperature ferromagnetic moment of nanocrystalline multiferroic BiFeO3. Applied Physics Letters, 2009, 94, 182507.	3.3	72

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37	The intercalation reaction of pyridine with manganese thiophosphate, MnPS3. Journal of the American Chemical Society, 1992, 114, 7792-7801.	13.7	71
38	Size-dependent magnetic properties of nanocrystalline yttrium iron garnet powders. Journal of Magnetism and Magnetic Materials, 2006, 301, 212-219.	2.3	71
39	A review of the recent progress on thermal conductivity of nanofluid. Journal of Molecular Liquids, 2021, 338, 116929.	4.9	70
40	Inverse magnetocaloric effect in solâ€“gel derived nanosized cobalt ferrite. Applied Physics A: Materials Science and Processing, 2010, 99, 497-503.	2.3	68
41	Magnetic characteristics of nanocrystalline multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m low temperatures. Physical Review B, 2009, 80, .	3.2	66
42	Co3O4 Nanorodsâ€”Efficient Non-noble Metal Electrocatalyst for Oxygen Evolution at Neutral pH. Electrocatalysis, 2015, 6, 331-340.	3.0	66
43	A facile liquid foam based synthesis of nickel nanoparticles and their subsequent conversion to NicoreAgshell particles: structural characterization and investigation of magnetic properties. Journal of Materials Chemistry, 2004, 14, 2941.	6.7	65
44	Unusual magnetic hysteresis behavior of oxide spinel MnCo2O4. Journal of Magnetism and Magnetic Materials, 2000, 210, 31-34.	2.3	64
45	Size Dependent Coordination Behavior and Cation Distribution in MgAl₂O₄ Nanoparticles from ²⁷Al Solid State NMR Studies. Journal of Physical Chemistry C, 2008, 112, 14737-14744.	3.1	64
46	Tuning of the magnetostrictive properties of CoFe[sub 2]O[sub 4] by Mn substitution for Co. Journal of Applied Physics, 2006, 100, 113911.	2.5	63
47	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
48	Synthesis of nickelâ€“rubber nanocomposites and evaluation of their dielectric properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 156, 24-31.	3.5	62
49	Synthesis of chromium substituted nano particles of cobalt zinc ferrites by coprecipitation. Materials Letters, 2005, 59, 3402-3405.	2.6	60
50	Characterization of nanosized NiZn ferrite powders synthesized by an autocombustion method. Materials Chemistry and Physics, 2006, 100, 98-101.	4.0	60
51	Magnetic and electric responsive hydrogelâ€“magnetic nanocomposites for drugâ€delivery application. Journal of Applied Polymer Science, 2011, 122, 1364-1375.	2.6	59
52	Synthesis and Ferromagnetic Properties of Lightly Doped Nanocrystalline Zn1-xCoxO. Chemistry of Materials, 2004, 16, 1168-1169.	6.7	58
53	Electronic structure and ferromagnetism of polycrystalline Zn1âˆ’xCoxO (0â‰¤xâ‰¤0.15). Solid State Communications, 2005, 134, 665-669.	1.9	58
54	Experimental comparison of the structural, magnetic, electronic, and optical properties of ferromagnetic and paramagnetic polycrystallineZn1âˆ’xCoxO(x=0,0.05,0.1). Physical Review B, 2006, 74, .	3.2	58

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55	High magnetostriction and coupling coefficient for sintered cobalt ferrite derived from superparamagnetic nanoparticles. Applied Physics Letters, 2012, 101, 072405.	3.3	57
56	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
57	Flexible microwave absorbers based on barium hexaferrite, carbon black, and nitrile rubber for 2â€“12â€‰GHz applications. Journal of Applied Physics, 2014, 116, .	2.5	50
58	Formation of Lead Magnesium Niobate Perovskite from Niobate Precursors Having Varying Magnesium Content. Journal of the American Ceramic Society, 1997, 80, 770-772.	3.8	49
59	Tuning of the magnetostrictive properties of cobalt ferrite by forced distribution of substituted divalent metal ions at different crystallographic sites. Journal of Applied Physics, 2017, 121, .	2.5	49
60	Tailoring magnetic and dielectric properties of rubber ferrite composites containing mixed ferrites. Bulletin of Materials Science, 2001, 24, 623-631.	1.7	46
61	The limiting value ofxin the ferromagnetic compositions La1ÂxMnO3. Journal of Physics Condensed Matter, 2002, 14, L663-L669.	1.8	46
62	Magnetic properties of the self-doped lanthanum manganitesLa1â˜'xMnO3. Physical Review B, 2005, 72, .	3.2	46
63	Evidence for Jahn - Teller polaron formation and spin-cluster-assisted variable-range-hopping conduction in. Journal of Physics Condensed Matter, 1998, 10, L269-L275.	1.8	45
64	High room temperature ferromagnetic moment of Ho substituted nanocrystalline BiFeO3. Applied Physics Letters, 2010, 97, .	3.3	45
65	Structural characterization and magnetic properties of undoped and copper-doped cobalt ferrite nanoparticles prepared by the octanoate coprecipitation route at very low dopant concentrations. RSC Advances, 2018, 8, 38621-38630.	3.6	44
66	A Novel Low-Temperature Synthesis of Nanosized NiZn Ferrite. Journal of the American Ceramic Society, 2005, 88, 2597-2599.	3.8	43
67	Low-temperature synthesis of nanocrystalline powders of lithium ferrite by an autocombustion method using citric acid and glycine. Materials Letters, 2005, 59, 2630-2633.	2.6	43
68	Magnetic and magnetostrictive properties of aluminium substituted cobalt ferrite synthesized by citrate-gel method. Journal of Materials Science, 2015, 50, 6510-6517.	3.7	43
69	Synthetic, spectroscopic, magnetic, and x-ray structural studies on a vitamin B6-amino acid Schiff base complex, aqua(5'-phosphopyridoxylidenetyrosinato)copper(II) tetrahydrate. Inorganic Chemistry, 1991, 30, 2181-2185.	4.0	41
70	Modifications in magnetic anisotropy of Mâ€”type strontium hexaferrite crystals by swift heavy ion irradiation.. Journal of Magnetism and Magnetic Materials, 2006, 305, 392-402.	2.3	40
71	Microwave-accelerated hydrothermal synthesis of blue white phosphor: Sr2CeO4. Materials Letters, 2004, 58, 2521-2524.	2.6	39
72	Synthesis of Bio-Compatible SPIONâ€“based Aqueous Ferrofluids and Evaluation of RadioFrequency Power Loss for Magnetic Hyperthermia. Nanoscale Research Letters, 2010, 5, 1706-1711.	5.7	39

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73	On the irreversible magnetic behavior of the anisotropic ferromagnetic system SrRuO3. Physica B: Condensed Matter, 1999, 269, 356-361.	2.7	37
74	Direct Observation of Ni Metal Impurities in Lightly Doped Ferromagnetic Polycrystalline (ZnNi)O. Chemistry of Materials, 2005, 17, 6507-6510.	6.7	36
75	Porous Co3O4 nanorods as superior electrode material for supercapacitors and rechargeable Li-ion batteries. Journal of Applied Electrochemistry, 2013, 43, 995-1003.	2.9	36
76	Effect of size and site preference of trivalent non-magnetic metal ions (Al³⁺) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 632 Td properties of sintered CoFe₂O₄. Journal Physics D: Applied Physics, 2017, 50, 435005.	2.8	36
77	Effect of sample shape on the zero-field-cooled magnetization behavior: comparative studies on NiFe2O4, CoFe2O4 and SrFe12O19. Journal of Magnetism and Magnetic Materials, 2000, 222, 33-38.	2.3	35
78	High magnetostriction parameters for low-temperature sintered cobalt ferrite obtained by two-stage sintering. Journal of Magnetism and Magnetic Materials, 2014, 371, 121-129.	2.3	35
79	Role of Primary and Secondary Surfactant Layers on the Thermal Conductivity of Lauric Acid Coated Magnetite Nanofluids. Journal of Physical Chemistry C, 2016, 120, 11640-11651.	3.1	35
80	Template-Assisted Synthesis and Characterization of Passivated Nickel Nanoparticles. Nanoscale Research Letters, 2010, 5, 889-897.	5.7	34
81	Comparison of the irreversible thermomagnetic behaviour of some ferro- and ferrimagnetic systems. Bulletin of Materials Science, 2000, 23, 97-101.	1.7	33
82	Title is missing!. Journal of Materials Science, 2001, 36, 5551-5557.	3.7	33
83	Colossal thermoelectric power in Gd-Sr manganites. Europhysics Letters, 2010, 91, 17008.	2.0	33
84	Citrate modified Î²-cyclodextrin functionalized magnetite nanoparticles: a biocompatible platform for hydrophobic drug delivery. RSC Advances, 2015, 5, 22117-22125.	3.6	33
85	Structural, magnetic and MÃ¶ssbauer 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
86	Magnetic and MÃ¶ssbauer spectroscopic studies of NiZn ferrite nanoparticles synthesized by a combustion method. Hyperfine Interactions, 2008, 183, 99-107.	0.5	32
87	Structural, magnetic and MÃ¶ssbauer spectral studies of nanocrystalline Ni0.5Zn0.5Fe2O4 ferrite powders. Journal of Alloys and Compounds, 2011, 509, 8999-9004.	5.5	32
88	Studies on the effect of sintering conditions on the magnetostriction characteristics of cobalt ferrite derived from nanocrystalline powders. Journal of the European Ceramic Society, 2014, 34, 677-686.	5.7	32
89	Enhanced strain sensitivity in magnetostrictive spinel ferrite Co1â^'xZnxFe2O4. Journal of Magnetism and Magnetic Materials, 2018, 447, 150-154.	2.3	32
90	The origin of ferromagnetism in the two different phases of LaMn0.5Co0.5O3: evidence from x-ray photoelectron spectroscopic studies. Journal of Physics Condensed Matter, 2001, 13, 649-656.	1.8	31

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91	Effect of cobalt doping on the magnetic properties of superparamagnetic Î³-Fe2O3-polystyrene nanocomposites. Journal of Magnetism and Magnetic Materials, 2004, 283, 344-352.	2.3	31
92	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
93	On the low-temperature anomaly in the AC susceptibility of La0.9Ca0.1MnO3. Journal of Magnetism and Magnetic Materials, 2000, 220, 106-114.	2.3	30
94	Magnetic properties of sintered CoFe2O4â€“BaTiO3 particulate magnetoelectric composites. Ceramics International, 2019, 45, 12307-12311.	4.8	30
95	Low-Tcmagnetically ordered phase ofSrRuO3. Physical Review B, 1997, 56, 2324-2327.	3.2	29
96	Optically transparent magnetic nanocomposites based on encapsulated Fe3O4nanoparticles in a solâ€“gel silica network. Nanotechnology, 2006, 17, 5565-5572.	2.6	29
97	Spin state engineered Zn_xCo_{3â^'x}O₄ as an efficient oxygen evolution electrocatalyst. Physical Chemistry Chemical Physics, 2018, 20, 29452-29461.	2.8	29
98	Origin of magnetic anomalies in the spin glass system, La0.85Sr0.15CoO3. Journal of Applied Physics, 1998, 83, 7375-7377.	2.5	28
99	Optical-absorption spectra of the layered transition-metal thiophosphatesMPS3(M=Mn, Fe, and Ni). Physical Review B, 1992, 46, 5134-5141.	3.2	27
100	Evaluation of the Magnetic and Mechanical Properties of Rubber Ferrite Composites Containing Strontium Ferrite. Polymer-Plastics Technology and Engineering, 2004, 43, 1013-1028.	1.9	27
101	Enhancement of the phase transformation temperature of Î³-Fe2O3by Zn2+doping. Journal of Materials Chemistry, 2007, 17, 453-456.	6.7	27
102	Influence of chain length of long-chain fatty acid surfactant on the thermal conductivity of magnetite nanofluids in a magnetic field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 525-531.	4.7	27
103	Superspin glass behavior of a nonstoichiometric lanthanum manganiteLaMnO3.13. Physical Review B, 2005, 72, .	3.2	26
104	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
105	Infrared (700â€“100 cmâ^'1) vibrational spectra of the layered transition metal thiophosphates, MPS3 (M =) Tj ETQq1 1 0.784314 rgBT	4.0	25
106	Low-temperature synthesis of single phase LaMn0.5Co0.5O3. Materials Letters, 2000, 46, 261-264.	2.6	24
107	Unusual charge disproportionation and associated magnetic behaviour in nanocrystalline LaMn0.5Co0.5O3. Journal of Physics Condensed Matter, 2001, 13, 11001-11007.	1.8	24
108	Studies on the effect of substitution of tetravalent ions for La3+ in LaMnO3. Journal of Magnetism and Magnetic Materials, 2002, 247, 316-323.	2.3	24

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109	Influence of magnetic (Fe+3) and non-magnetic (Ga+3) ion doping at Mn-site on the transport and magnetic properties of La0.7Ca0.3MnO3. Solid State Communications, 2006, 137, 595-600.	1.9	24
110	Studies on the role of unsaturation in the fatty acid surfactant molecule on the thermal conductivity of magnetite nanofluids. Journal of Colloid and Interface Science, 2017, 506, 162-168.	9.4	24
111	Biomimetic synthesis of superparamagnetic iron oxide particles in proteins. Journal of Materials Research, 2003, 18, 1309-1313.	2.6	23
112	Role of base fluid on the thermal conductivity of oleic acid coated magnetite nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 922-929.	4.7	23
113	Magnetism and spin dynamics in MnPS3 and pyridine intercalated MnPS3: An electron paramagnetic resonance study. Journal of Chemical Physics, 1993, 99, 4411-4422.	3.0	21
114	Intercalation of n-alkylamines in iron thiohypophosphate (FePS3). Chemistry of Materials, 1993, 5, 1182-1191.	6.7	21
115	Comment on â€œGiant magnetoresistance of the La1â^'xAgxMnO3 polycrystalline inhomogeneous granular systemâ€•[Appl. Phys. Lett. 77, 723 (2000)]. Applied Physics Letters, 2001, 78, 3747-3748.	3.3	21
116	Evidence for intergranular tunnelling in polyaniline passivated Î±-Fe nanoparticles. Nanotechnology, 2006, 17, 4765-4772.	2.6	21
117	Low temperature synthesis of nanocrystalline lithium ferrite by a modified citrate gel precursor method. Materials Research Bulletin, 2008, 43, 3447-3456.	5.2	21
118	High magnetostriction parameters of sintered and magnetic field annealed Ga-substituted CoFe2O4. Materials Letters, 2017, 192, 169-172.	2.6	21
119	Comparison of the low field magnetic behavior of Ln0.7Ca0.3MnO3 (Ln = La, Pr). Solid State Communications, 1998, 108, 67-70.	1.9	20
120	Processability, hardness, and magnetic properties of rubber ferrite composites containing manganese zinc ferrites. Plastics, Rubber and Composites, 2002, 31, 106-113.	2.0	20
121	Cross over from 3D variable range hopping to the 2D weak localization conduction mechanism in disordered carbon with the extent of graphitization. Physical Chemistry Chemical Physics, 2015, 17, 16178-16185.	2.8	20
122	Effect of carbon black on the mechanical and dielectric properties of rubber ferrite composites containing barium ferrite. Journal of Applied Polymer Science, 2003, 89, 769-778.	2.6	19
123	Superparamagnetic Nanocrystalline ZnFe₂O₄ with a Very High Curie Temperature. Journal of Nanoscience and Nanotechnology, 2008, 8, 3955-3958.	0.9	19
124	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
125	Evolution and magnetic characteristics of NiOâ€“Ni(OH)2 coreâ€“shell nanostructures. Physical Chemistry Chemical Physics, 2013, 15, 20808.	2.8	19
126	Role of localized graphitization on the electrical and magnetic properties of activated carbon. Journal of the American Ceramic Society, 2017, 100, 5151-5161.	3.8	19

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127	Magnetic parameters of SrFe12O19 sintered from a mixture of nanocrystalline and micron-sized powders. Ceramics International, 2019, 45, 13592-13596.	4.8	19
128	Highly Active Nanostructured Co3O4 Catalyst with Tunable Selectivity for Liquid Phase Air Oxidation of p-Cresol. Chemistry Letters, 2008, 37, 310-311.	1.3	18
129	Enhanced magnetic parameters in the morphotropic phase boundary region of nanocrystalline multiferroic Bi1â^'La FeO3. Solid State Communications, 2012, 152, 1609-1612.	1.9	18
130	Low temperature synthesis of Mg4Nb2O9. Materials Letters, 1997, 32, 347-349.	2.6	17
131	Synthesis and Reactivity of Magnetically Diverse Au@Ni Coreâ€“Shell Nanostructures. Particle and Particle Systems Characterization, 2014, 31, 236-244.	2.3	17
132	Defect induced modification of structural, topographical and magnetic properties of zinc ferrite thin films by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 396, 68-74.	1.4	17
133	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
134	The origin of ferromagnetism in LaMnO3+$delta$. Journal of Physics Condensed Matter, 2002, 14, 4985-4993.	1.8	16
135	Solid state synthesis and room temperature magnetic properties of iron phosphide nanoparticles. Journal of Nanoparticle Research, 2009, 11, 491-497.	1.9	16
136	Evidence for the co-existence of distorted tetrahedral and trigonal bipyramidal aluminium sites in SrAl12O19 from 27Al NMR studies. Solid State Communications, 2010, 150, 262-266.	1.9	16
137	Structural and magnetic properties of La2Ni1â^'Co MnO6 compounds. Materials Research Bulletin, 2018, 102, 248-256.	5.2	16
138	Magnetic properties of La2MnCo1â^'xFexO6. Journal of Magnetism and Magnetic Materials, 2003, 261, 433-441.	2.3	15
139	Physicomechanical and Magnetic Properties of Neoprene Based Rubber Ferrite Composites. Polymer-Plastics Technology and Engineering, 2008, 47, 137-146.	1.9	14
140	Ferromagnetism at room temperature in activated graphene oxide. Chemical Physics Letters, 2014, 605-606, 89-92.	2.6	14
141	Neutron depolarization and diffraction studies in cluster glass La0.5Sr0.5CoO3. Journal of Alloys and Compounds, 2001, 326, 101-104.	5.5	13
142	Effect of R on the magnetic transition temperature of RMn0.5Co0.5O3. Solid State Communications, 2002, 121, 219-222.	1.9	13
143	Cure Characteristics and Dielectric Properties of Magnetic Composites Containing Strontium Ferrite. Journal of Elastomers and Plastics, 2005, 37, 109-121.	1.5	13
144	Effect of thermal annealing on Fe40Ni38B18Mo4thin films: modified Herzer model for magnetic evolution. Journal Physics D: Applied Physics, 2006, 39, 1993-2000.	2.8	13

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145	Correlations between structure, microstructure, density and dielectric properties of the lead-free ferroelectrics Bi_{0.5}(Na,K)_{0.5}TiO₃. Journal of Advanced Dielectrics, 2015, 05, 1550028.	2.4	13
146	Large enhancement in the magnetostriction parameters of the composite of CoFe2O4 and CoFe1.9Ga0.1O4. Materials Letters, 2019, 236, 303-306.	2.6	12
147	Swift heavy ion irradiation effects on structural and magnetic characteristics of RFeO3 (R=Er, Ho and) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	11
148	On the magnetic, mechanical and rheological properties of rubberâ€“nickel nanocomposites. Polymer Bulletin, 2010, 64, 907-923.	3.3	11
149	Effect of co-substitution of Co2+ and V5+ for Fe3+ on the magnetic properties of CoFe2O4. Physica B: Condensed Matter, 2019, 554, 107-113.	2.7	11
150	Electrical resistivity behavior of substituted perovskite manganates sintered at different temperatures. Materials Research Bulletin, 1999, 34, 2143-2149.	5.2	10
151	Role of the rare-earth ion on the strength of the ferromagnetic exchange interactions in RMn0.5M0.5O3(M = Co, Ni). Journal of Physics Condensed Matter, 2004, 16, 155-163.	1.8	10
152	On the magnetic and dielectric properties of nickelâ€“neoprene nanocomposites. Materials Chemistry and Physics, 2010, 121, 154-160.	4.0	10
153	Tuning Magnetic Behavior of Nanoscale Cobalt Sulfide and Its Nanocomposite with an Engineering Thermoplastic. Journal of Electronic Materials, 2015, 44, 2308-2311.	2.2	10
154	Thermal conductivity studies on magnetite nanofluids coated with short-chain and long-chain fatty acid surfactants. Bulletin of Materials Science, 2018, 41, 1.	1.7	10
155	Comment on â€œFerromagnetism at room temperature in La0.8Ca0.2MnO3 thin filmsâ€•[Appl. Phys. Lett. 74, 1886 (1999)]. Applied Physics Letters, 2000, 76, 1209-1209.	3.3	9
156	Direct comparison of the aging and memory effects of magnetic nanoclusters and nanoparticles. Solid State Communications, 2007, 141, 307-310.	1.9	9
157	Effect of nickel nanofillers on the dielectric and magnetic properties of composites based on rubber in the X-band. Applied Physics A: Materials Science and Processing, 2009, 97, 157-165.	2.3	9
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