

Balaram Sahoo

List of Articles by Year in descending order

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136

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60348

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99897

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citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of annealing on microstructure and magnetic properties of AISI 430 steel. <i>Materials Letters</i> , 2025, 386, 138249.	2.5	4
2	Carbon nanostructures embedded with bimetallic CoRu alloy nanoparticles as oxygen reduction electrode for zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2025, 13, 9992-10005.	9.3	12
3	Low temperature conductivity of BaFe _{0.5} Nb _{0.5} O ₃ double perovskite structure ceramics. <i>Journal of Alloys and Compounds</i> , 2025, 1022, 179707.	6.0	2
4	Tuning magnetostrictive strain sensitivity through controlled spin-orbit and superexchange interactions: nonmagnetic Zn and Mg cation substitution in CoFe ₂ O ₄ . <i>Journal of Materials Chemistry C</i> , 2025, 13, 11060-11076.	5.1	4
5	Effect of annealing of the core material on magnetic and mechanical performance of a plunger type solenoid valve during its start transient. <i>Journal of Magnetism and Magnetic Materials</i> , 2025, 628, 173158.	2.7	5
6	Green synthesis of meso-porous CuFe ₂ O ₄ nanoparticles through aloe-vera assisted sol-gel auto-combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , 2025, 36, .	2.1	5
7	Tailoring Microwave Absorption via Ferromagnetic Resonance and Quarter-Wave Effects in Carbonaceous Ternary FeCoCr Alloy/PVDF Polymer Composites. , 2025, 1, 8.		1
8	Mechanistic insights into the roles of precursor content, synthesis time, and dispersive solvent in maximizing supercapacitance of N-rGO sheets. <i>Journal of Alloys and Compounds</i> , 2024, 971, 172648.	6.0	13
9	Synthesis, characterization and insights into the supercapacitive and electrocatalytic (OER) bi-functional properties of nitrogen-doped reduced graphene oxide using dicyandiamide precursor. <i>Solid State Sciences</i> , 2024, 147, 107377.	3.1	3
10	Investigation on Multifunctional Properties of (Pb _{0.92} La _{0.08}) (Zr _{0.55} Ti _{0.45})O ₃ Relaxor Ferroelectric Thin Film for Energy Harvesting and Storage Applications. <i>Energy Technology</i> , 2024, 12, .	3.4	4
11	Nitrogen-doped carbon nanostructures embedded with Fe-Co-Cr alloy based nanoparticles as robust electrocatalysts for Zn-air batteries. <i>Journal of Alloys and Compounds</i> , 2024, 984, 173862.	6.0	19
12	N-Doped Carbon Nanotubes Nucleated through Cobalt Nanoparticles as Bifunctional Catalysts for Zinc-Air Batteries. <i>ACS Applied Nano Materials</i> , 2024, 7, 7865-7882.	5.3	23
13	Photocatalytic 4-Nitrophenol Reduction by Hydrothermally Synthesized Mesoporous Co- and/or Fe-Substituted Aluminophosphates. <i>Catalysts</i> , 2024, 14, 408.	3.7	7
14	Nickel-Embedded Carbon Nanostructures as Noble Metal-Free Catalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2024, 7, 16422-16437.	5.3	10
15	Transition-Metal Nanoparticles (Fe, Co, or Ni) Encapsulated in N-Doped Carbon as Catalysts for the Oxygen Reduction Reaction and as Gas Sensors of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2024, 7, 21603-21616.	5.3	8
16	Impact of Dispersive Solvent and Temperature on Supercapacitor Performance of N-Doped Reduced Graphene Oxide. <i>Journal of Carbon Research</i> , 2024, 10, 89.	2.0	1
17	Structural, optical and NTCR properties of Ca doped ZnO ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	2.1	7
18	Exploring supercapacitance of solvothermally synthesized N-rGO sheet: role of N-doping and the insight mechanism. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1059-1071.	2.7	26

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19	Sensing of oxidizing and reducing gases by sensors prepared using nanoscale Co ₃ O ₄ powders: A study through Cu substitution. <i>Advanced Powder Technology</i> , 2022, 33, 103529.	4.0	24
20	Tunable Dielectric Properties of Nickel Ferrite Derived via Crystallographic Site Preferential Cation Substitution. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9123-9134.	3.1	38
21	Sol-gel auto-combustion synthesis of Ba ²⁺ /Sr hexaferrite ceramic powders. <i>Ceramics International</i> , 2021, 47, 14907-14912.	5.4	17
22	Role of oxygen functionalities of GO in corrosion protection of metallic Fe. <i>Carbon</i> , 2021, 173, 350-363.	10.7	64
23	Infrared photodetectors based on multiwalled carbon nanotubes: Insights into the effect of nitrogen doping. <i>Applied Surface Science</i> , 2021, 538, 148187.	6.7	49
24	Superiority of graphite coated metallic-nanoparticles over graphite coated insulating-nanoparticles for enhancing EMI shielding. <i>New Journal of Chemistry</i> , 2021, 45, 4592-4600.	2.4	14
25	Role of Mg ²⁺ and In ³⁺ substitution on magnetic, magnetostrictive and dielectric properties of NiFe ₂ O ₄ ceramics derived from nanopowders. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1694-1705.	2.7	33
26	Chemically enabling CoFe ₂ O ₄ for magnetostrictive strain sensing applications at lower magnetic fields: Effect of Zn substitution. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 266, 115080.	4.2	37
27	Role of graphitization-controlled conductivity in enhancing absorption dominated EMI shielding behavior of pyrolysis-derived Fe ₃ C@C-PVDF nanocomposites. <i>Materials Chemistry and Physics</i> , 2021, 263, 124429.	4.4	28
28	Enhancing functional properties of PVDF-HFP/BZT-BCT polymer-ceramic composites by surface hydroxylation of ceramic fillers. <i>Ceramics International</i> , 2021, 47, 33563-33576.	5.4	33
29	Dielectric properties of A-site Mn-doped bismuth sodium titanate perovskite: (Bi _{0.5} Na _{0.5}) _{0.9} Mn _{0.1} TiO ₃ . <i>Materials Chemistry and Physics</i> , 2021, 270, 124849.	4.4	21
30	Enabling cobalt ferrite (CoFe ₂ O ₄) for low magnetic field strain responsivity through Bi ³⁺ substitution: Material for magnetostrictive sensors. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160285.	6.0	36
31	Gamma-irradiation induced modifications in structural and magnetic properties of nanocrystalline Mn _{0.5} Zn _{0.5} Sm _x Fe _{2-x} O ₄ ceramics. <i>Radiation Physics and Chemistry</i> , 2020, 166, 108506.	2.9	20
32	Low temperature dielectric properties and NTCR behavior of the BaFe _{0.5} Nb _{0.5} O ₃ double perovskite ceramic. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2986-2998.	2.7	82
33	One-step synthesis of diopside (CaMgSi ₂ O ₆) ceramic powder by solution combustion method. <i>Advanced Powder Technology</i> , 2020, 31, 3492-3499.	4.0	15
34	Micro-mechanism of evolution of microstructure and texture in Ni-Fe alloys. <i>Materialia</i> , 2020, 13, 100811.	2.5	11
35	Effect of fuel and fuel to oxidizer ratio in solution combustion synthesis of nanoceramic powders: MgO, CaO and ZnO. <i>Solid State Sciences</i> , 2020, 109, 106426.	3.1	26
36	FeCoCr alloy-nanoparticle embedded bamboo-type carbon nanotubes for non-linear optical limiting application. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156665.	6.0	46

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37	Effect of the band gap and the defect states present within band gap on the non-linear optical absorption behaviour of yttrium aluminium iron garnets. <i>Optical Materials</i> , 2020, 108, 110163.	4.0	113
38	Ni Nanoparticles Coated with Nitrogen-Doped Carbon for Optical Limiting Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 8618-8631.	5.3	67
39	Role of Composition in Enhancing Heat Transfer Behavior of Carbon Nanotube-Ethylene Glycol Based Nanofluids. <i>Electronic Materials Letters</i> , 2020, 16, 595-603.	2.1	13
40	Mechanistic insights into the optical limiting performance of carbonaceous nanomaterials embedded with core-shell type graphite encapsulated Co nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27224-27240.	2.7	52
41	Effect of Cr Doping on Structural, Optical and Dielectric Properties of ZnO Nanoceramics Synthesized by Mechanical Alloying. <i>Electronic Materials Letters</i> , 2020, 16, 255-263.	2.1	18
42	Graphene Oxide Coatings on Amino Acid Modified Fe Surfaces for Corrosion Inhibition. <i>ACS Applied Nano Materials</i> , 2020, 3, 3540-3557.	5.3	57
43	Effect of morphology and role of conductivity of embedded metallic nanoparticles on electromagnetic interference shielding of PVDF-carbonaceous-nanofiller composites. <i>Carbon</i> , 2020, 164, 357-368.	10.7	91
44	Mechanistic insights into the sol-gel synthesis of complex (quaternary) Co-Mn-Zn-spinel ferrites: An annealing dependent study. <i>Ceramics International</i> , 2020, 46, 17400-17415.	5.4	57
45	Magnetic and catalytic properties of Cu-substituted SrFe ₁₂ O ₁₉ synthesized by tartrate-gel method. <i>Advanced Powder Technology</i> , 2020, 31, 2385-2393.	4.0	58
46	Crystal growth and effect of defects on the dielectric properties of ammonium dihydrogen phosphate (ADP) single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10548-10552.	2.1	12
47	Modulating non-linear optical absorption through controlled graphitization of carbon nanostructures containing Fe ₃ C-graphite core-shell nanoparticles. <i>Carbon</i> , 2019, 153, 545-556.	10.7	69
48	Role of iron in the enhanced reactivity of pulverized Red mud: Analysis by Mössbauer spectroscopy and FTIR spectroscopy. <i>Case Studies in Construction Materials</i> , 2019, 11, e00266.	1.8	31
49	Synthesis, composition and spin-dynamics of FCC and HCP phases of pyrolysis derived Co-nanoparticles embedded in amorphous carbon matrix. <i>Ceramics International</i> , 2019, 45, 19879-19887.	5.4	24
50	Structural, optical and Mössbauer spectroscopic investigations on the environment of Fe in Fe-doped ZnO (Zn _{1-x} Fe _x O) ceramics synthesized by solution combustion method. <i>Ceramics International</i> , 2019, 45, 24625-24634.	5.4	59
51	Steady-shear response of magnetorheological fluid containing coral-shaped yttrium-iron-garnet particles. <i>Materials Research Bulletin</i> , 2019, 113, 45-50.	5.3	24
52	Enhancing absorption dominated microwave shielding in Co@C-PVDF nanocomposites through improved magnetization and graphitization of the Co@C-nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15595-15608.	2.7	66
53	Effect of magnetic dipolar interactions and size dispersity on the origin of steady state magnetomechanical response in bidisperse Mn-Zn ferrite spherical particle based magnetorheological fluids. <i>New Journal of Chemistry</i> , 2019, 43, 9969-9979.	2.4	36
54	Nitrogen doping as a fundamental way to enhance the EMI shielding behavior of cobalt particle-embedded carbonaceous nanostructures. <i>New Journal of Chemistry</i> , 2019, 43, 5568-5580.	2.4	57

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55	Magnetic Properties of $M\text{FeCrO}_4$ ($M = \text{Co/Ni}$) Prepared by Solution Combustion Method. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2973-2979.	1.6	18
56	Synthesis of highly magnetic Mn-Zn ferrite ($\text{Mn}_{0.7}\text{Zn}_{0.3}\text{Fe}_2\text{O}_4$) ceramic powder and its use in smart magnetorheological fluid. Rheologica Acta, 2019, 58, 273-280.	2.5	28
57	XRD, internal field-NMR and Mössbauer spectroscopy study of composition, structure and magnetic properties of iron oxide phases in iron ores. Journal of Materials Research and Technology, 2019, 8, 2192-2200.	6.1	29
58	Tuning the fluorescence behavior of liquid crystal molecules containing Schiff-base: Effect of solvent polarity. Journal of Luminescence, 2019, 210, 371-375.	3.5	39
59	Structural transformations and physical properties of $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ $x\text{BaTiO}_3$ solid solutions near a morphotropic phase boundary. Journal of Physics Condensed Matter, 2019, 31, 075401.		
60	Structural and magnetic properties of Al-doped yttrium iron garnet ceramics: ^{57}Fe internal field NMR and Mössbauer spectroscopy study. Journal of Alloys and Compounds, 2019, 773, 612-622.	6.0	39
61	Investigation of structural, morphological and NTCR behaviour of Cu-doped ZnO nanoceramics synthesized by high energy ball milling. Materials Chemistry and Physics, 2019, 221, 419-429.	4.4	50
62	Effect of Microstructure and Magnetic Properties of Ba-Pb-Hexaferrite Particles on EMI Shielding Behavior of Ba-Pb-Hexaferrite-Polyaniline-Wax Nanocomposites. Journal of Electronic Materials, 2019, 49, 1618-1629.	2.3	69
63	Magneto-mechanical response of additive-free Fe-based magnetorheological fluids: role of particle shape and magnetic properties. Materials Research Express, 2018, 5, 085703.	2.0	32
64	Carbon nanotubes or carbon globules: Optimization of the pyrolytic synthesis parameters and study of the magnetic properties. Nano Structures Nano Objects, 2018, 14, 131-137.	4.2	30
65	Effect of Coral-Shaped Yttrium Iron Garnet Particles on the EMI Shielding Behaviour of Yttrium Iron Garnet-Polyaniline-Wax Composites. ChemistrySelect, 2018, 3, 2120-2130.	1.7	57
66	Strain induced magnetism and superexchange interaction in Cr substituted nanocrystalline cobalt ferrite. Materials Chemistry and Physics, 2018, 211, 54-64.	4.4	52
67	Impedance spectroscopic study on microwave sintered $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ $x\text{BaTiO}_3$ ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 6966-6977.	2.1	98
68	Effect of annealing temperature on the structural and magnetic properties of Ba-Pb-hexaferrite powders synthesized by sol-gel auto-combustion method. Ceramics International, 2018, 44, 8877-8889.	5.4	55
69	Synthesis of nanocrystalline spinel ferrite (MFe_2O_4 , $M = \text{Zn}$ and Mg) by solution combustion method: Influence of fuel to oxidizer ratio. Journal of Alloys and Compounds, 2018, 742, 577-586.	6.0	73
70	Determination of magnetic domain state of carbon coated iron nanoparticles via ^{57}Fe zero-external-field NMR. Journal of Magnetism and Magnetic Materials, 2018, 453, 125-131.	2.7	30
71	Comparative study of the structural and magnetic properties of alpha and beta phases of lithium ferrite nanoparticles synthesized by solution combustion method. Journal of Magnetism and Magnetic Materials, 2018, 462, 136-143.	2.7	45
72	Excited state intramolecular proton transfer emission in bent core liquid crystals. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 186-191.	4.3	17

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73	Strengthening mechanisms in Fe-Al based ferritic low-density steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 574-584.	6.3	21
74	Effect of Zn substitution on the structural and magnetic properties of nanocrystalline NiFe ₂ O ₄ ferrites. <i>Ceramics International</i> , 2018, 44, 4946-4954.	5.4	119
75	⁵⁷ Fe internal field nuclear magnetic resonance and Mössbauer spectroscopy study of Li-Zn ferrites. <i>Journal of Magnetic Resonance</i> , 2018, 286, 68-77.	1.6	29
76	Synthesis of coral-shaped yttrium-aluminium-iron garnets by solution-combustion method. <i>Ceramics International</i> , 2018, 44, 3024-3031.	5.4	54
77	Investigation of disorder in carbon encapsulated core-shell Fe/Fe ₃ C nanoparticles synthesized by one-step pyrolysis. <i>Diamond and Related Materials</i> , 2018, 90, 62-71.	4.8	47
78	Graphene-oxide coating for corrosion protection of iron particles in saline water. <i>Carbon</i> , 2018, 140, 477-487.	10.7	121
79	One-step pyrolytic synthesis and growth mechanism of core-shell type Fe/Fe ₃ C-graphite nanoparticles-embedded carbon globules. <i>Nano Structures Nano Objects</i> , 2018, 16, 77-85.	4.2	44
80	Application of Ni-Zn ferrite powders with polydisperse spherical particles in magnetorheological fluids. <i>Powder Technology</i> , 2018, 338, 190-196.	4.4	50
81	Effect of solvents on the structure and magnetic properties of pyrolysis derived carbon globules embedded with iron/iron carbide nanoparticles and their applications in magnetorheological fluids. <i>Nano Structures Nano Objects</i> , 2018, 16, 167-173.	4.2	34
82	Application of monodisperse Fe ₃ O ₄ submicrospheres in magnetorheological fluids. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 347-357.	5.8	72
83	Magnetic field dependent steady-state shear response of Fe ₃ O ₄ micro-octahedron based magnetorheological fluids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20247-20256.	2.7	38
84	Cation distributions and magnetism of Al-substituted CoFe ₂ O ₄ - NiFe ₂ O ₄ solid solutions synthesized by sol-gel auto-combustion method. <i>Ceramics International</i> , 2018, 44, 20708-20715.	5.4	47
85	Solvent dependent morphology and ⁵⁹ Co internal field NMR study of Co-aggregates synthesized by a wet chemical method. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17739-17750.	2.7	22
86	Magnetorheological fluids containing rod-shaped lithium-zinc ferrite particles: the steady-state shear response. <i>Soft Matter</i> , 2018, 14, 5407-5419.	2.6	51
87	Steady-shear magnetorheological response of fluids containing solution-combustion-synthesized Ni-Zn ferrite powder. <i>Advanced Powder Technology</i> , 2018, 29, 2188-2193.	4.0	33
88	Mechanistic Insight into the Critical Concentration of Barium Hexaferrite and the Conductive Polymeric Phase with Respect to Synergistically Electromagnetic Interference (EMI) Shielding. <i>ChemistrySelect</i> , 2017, 2, 830-841.	1.7	59
89	Annealing temperature dependent structural and magnetic properties of MnFe ₂ O ₄ nanoparticles grown by sol-gel auto-combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 433, 29-34.	2.7	75
90	Thermally induced phase transformation in multi-phase iron oxide nanoparticles on vacuum annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 156-166.	2.7	72

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91	Correlated vibrations of the tetrahedral and octahedral complexes and splitting of the absorption bands in FTIR spectra of Li-Zn ferrites. <i>Vibrational Spectroscopy</i> , 2017, 92, 267-272.	2.6	164
92	Composition dependent elastic and thermal properties of Li Zn ferrites. <i>Journal of Alloys and Compounds</i> , 2017, 728, 1091-1100.	6.0	87
93	Combustion synthesis, structure and magnetic properties of Li-Zn ferrite ceramic powders. <i>Ceramics International</i> , 2017, 43, 14431-14440.	5.4	82
94	Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23268-23279.	2.7	173
95	Role of pyrolysis reaction temperature and heating-rate in the growth and morphology of carbon nanostructures. <i>Nano Structures Nano Objects</i> , 2017, 12, 229-238.	4.2	46
96	Studies of ferroelectric properties and leakage current behaviour of microwave sintered ferroelectric Na _{0.5} Bi _{0.5} TiO ₃ ceramic. <i>Ferroelectrics</i> , 2017, 517, 25-33.	0.6	39
97	Composition dependent structural and morphological modifications in nanocrystalline Mn-Zn ferrites induced by high energy γ -irradiation. <i>Materials Chemistry and Physics</i> , 2017, 199, 313-321.	4.4	59
98	Mechanism of γ -irradiation induced phase transformations in nanocrystalline Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ ceramics. <i>Journal of Solid State Chemistry</i> , 2017, 246, 119-124.	3.3	59
99	Dose dependent modifications in structural and magnetic properties of γ -irradiated nanocrystalline Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ ceramics. <i>Ceramics International</i> , 2017, 43, 523-526.	5.4	35
100	Composition dependent room temperature structure, electric and magnetic properties in magnetoelectric Pb(Fe _{1/2} Nb _{1/2})O ₃ Pb(Fe _{2/3} W _{1/3})O ₃ solid-solutions. <i>Journal of Alloys and Compounds</i> , 2016, 677, 27-37.	6.0	35
101	Magnetic and ferroelectric characteristics of Gd ³⁺ and Ti ⁴⁺ co-doped BiFeO ₃ ceramics. <i>Bulletin of Materials Science</i> , 2016, 39, 593-601.	1.9	46
102	Observation of enhanced magnetic pinning in Sm ³⁺ substituted nanocrystalline Mn Zn ferrites prepared by propellant chemistry route. <i>Journal of Alloys and Compounds</i> , 2016, 682, 263-274.	6.0	85
103	Evidence of structural damage in Sm and Gd co-doped Mn-Zn ferrite ceramics due to high-energy gamma irradiation. <i>Ceramics International</i> , 2016, 42, 15933-15939.	5.4	51
104	Investigation on structural, Mössbauer and ferroelectric properties of (1-x)PbFe _{0.5} Nb _{0.5} O ₃ -(x)BiFeO ₃ solid solution. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 418, 122-127.	2.7	43
105	Evidence for Room-Temperature Weak Ferromagnetic and Ferroelectric Ordering in Magnetoelectric Pb(Fe _{0.634} W _{0.266} Nb _{0.1})O ₃ Ceramic. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 30, 1317-1325.	1.6	17
106	Observation of phase transformations in cement during hydration. <i>Construction and Building Materials</i> , 2015, 101, 122-129.	7.6	182
107	Origin of room temperature weak-ferromagnetism in antiferromagnetic Pb(Fe _{2/3} W _{1/3})O ₃ ceramic. <i>Ceramics International</i> , 2015, 41, 11680-11686.	5.4	30
108	On the Room Temperature Ferromagnetic and Ferroelectric Properties of Pb(Fe _{1/2} Nb _{1/2})O ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2465-2472.	1.6	24

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109	Structural and Magnetic Phase Transformations of Hydroxyapatite-Magnetite Composites under Inert and Ambient Sintering Atmospheres. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6539-6555.	3.1	54
110	As-grown superconducting MgB ₂ thin films prepared at extreme deposition conditions. <i>Superconductor Science and Technology</i> , 2012, 25, 015004.	4.1	3
111	Electromagnetically induced transparency with resonant nuclei in a cavity. <i>Nature</i> , 2012, 482, 199-203.	37.9	203
112	Metallurgical phases and their magnetism at the interface of nanoscale MgB ₂ /Fe layered structures. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 475702.	2.3	1
113	Mössbauer spectroscopic investigations of nanophase iron oxides synthesized by thermal plasma route. <i>Materials Characterization</i> , 2008, 59, 1215-1220.	5.0	41
114	High-energy phonon confinement in nanoscale metallic multilayers. <i>Physical Review B</i> , 2008, 77, .	3.4	31
115	Direct measurement of depth-dependent Fe spin structure during magnetization reversal in Fe/MnF ₂ exchange-coupled bilayers. <i>Physical Review B</i> , 2008, 78, .	3.4	24
116	Magnetic interactions in water based ferrofluids studied by Mössbauer spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 016205.	2.3	46
117	Electronic transport and atomic vibrational properties of semiconducting Mg Sn thin film. <i>Phase Transitions</i> , 2006, 79, 839-852.	1.6	5
118	Mössbauer spectroscopical investigation of amorphous Fe-Y alloy ribbons prepared by melt spinning. <i>Hyperfine Interactions</i> , 2006, 165, 175-181.	0.8	3
119	Amorphous Fe-Mg alloy thin films: magnetic properties and atomic vibrational dynamics. <i>Hyperfine Interactions</i> , 2006, 168, 1185-1190.	0.8	3
120	Mössbauer spectroscopical investigation of the exchange biased Fe/MnF ₂ interface. <i>Hyperfine Interactions</i> , 2006, 169, 1371-1377.	0.8	12
121	Vibrational dynamics of Fe in amorphous Fe-Sc and Fe-Al alloy thin films. <i>Hyperfine Interactions</i> , 2006, 170, 33-46.	0.8	1
122	Atomic vibrational dynamics of amorphous Fe-Mg alloy thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 2263-2270.	4.7	20
123	Atomic vibrational density of states in crystalline and amorphous Tb _{1-x} Fe _x alloy thin films studied by nuclear resonant inelastic x-ray scattering (NRIXS). <i>Journal of Physics Condensed Matter</i> , 2004, 16, S379-S393.	2.3	13
124	Changes in ferromagnetic spin structure induced by exchange bias in Fe/MnF ₂ films. <i>Physical Review B</i> , 2004, 70, .	3.4	40
125	Structural, magnetic and Mössbauer studies on nickel-zinc ferrites synthesized via a precipitation route. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 3495-3498.	0.7	34
126	Structural and magnetic properties of iron species/SiO ₂ nanocomposites obtained by sol-gel methods. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 3507-3510.	0.7	9

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127	Magnetic interactions and spin configuration in FeRh and Fe/FeRh systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 348-350.	2.7	5
128	Preparation and structural investigation of epitaxially grown antiferromagnetic FeSn ₂ (001) thin films on InSb(001). Journal of Applied Physics, 2003, 94, 3573-3581.	2.0	7
129	Superconductivity of MgB ₂ Thin Films Prepared By CoEvaporation and Magnetism of MgB ₂ /Fe Multilayers Studied By Mössbauer Spectroscopy. Phase Transitions, 2003, 76, 423-435.	1.6	3
130	Mössbauer effect study of the Fe spin structure in exchange-bias and exchange-spring systems. Journal Physics D: Applied Physics, 2002, 35, 2352-2358.	2.9	9
131	Synthesis, characterization and catalytic properties of trivalent iron substituted hexagonal mesoporous aluminophosphates Electronic supplementary information (ESI) available: XRD patterns. See http://www.rsc.org/suppdata/cc/b2/b204215k/ . Chemical Communications, 2002, , 1466-1467.	3.4	34
132	Title is missing!. Hyperfine Interactions, 2002, 144/145, 65-76.	0.8	11
133	Effect of high relative permeability and high magnetic saturation flux density on dynamic performance of a plunger type solenoid valve during its start transient. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 0, 323, 118869.	4.2	0
134	Cobalt Nanoparticles Embedded in N-Doped Carbon Nanostructure Sourced from Banana Leaves for Oxygen and Hydrogen Generation. Energy & Fuels, 0, 39, 21498-21510.	5.2	1
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