

Caltun Ovidiu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,829
citations

236833

25
h-index

265120

42
g-index

60
all docs

60
docs citations

60
times ranked

1826
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterizations of manganese ferrites for hyperthermia applications. <i>Materials Chemistry and Physics</i> , 2013, 143, 305-310.	2.0	118
2	Effect of rare earth substitution in cobalt ferrite bulk materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 390, 123-131.	1.0	107
3	Structural, electric and magnetic properties of $\text{CoFe}_{1.8}\text{RE}_{0.2}\text{O}_4$ (RE=Dy, Gd, La) bulk materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 333, 69-74.	1.0	97
4	Substituted cobalt ferrites for sensors applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e869-e873.	1.0	85
5	Synthesis and characterization of nanocrystalline Zn ferrites substituted with Ni. <i>Materials Research Bulletin</i> , 2011, 46, 1455-1460.	2.7	83
6	Synthesis, characterization and magnetic properties of MFe_2O_4 (M=Co, Mg, Mn, Ni) nanoparticles using ricin oil as capping agent. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3906-3911.	1.0	82
7	The influence of Mn doping level on magnetostriction coefficient of cobalt ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e618-e620.	1.0	81
8	Preparation and magnetoelectric properties of $\text{NiFe}_2\text{O}_4/\text{PZT}$ composites obtained in-situ by gel-combustion method. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3325-3337.	2.8	79
9	Study of the microstructure and of the permeability spectra of $\text{Ni}^{1-x}\text{Zn}^x\text{Cu}$ ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 160-162.	1.0	69
10	Microstructure and magnetic properties of substituted (Cr, Mn) - cobalt ferrite nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 135, 728-732.	2.0	66
11	Effect of Ni^{2+} substitution on structural and magnetic properties of $\text{Ni}^{1-x}\text{Zn}^x$ ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 15-19.	1.0	63
12	High Magnetostrictive Cobalt Ferrite for Sensor Applications. <i>Sensor Letters</i> , 2007, 5, 45-47.	0.4	62
13	Magnetic properties of high frequency Ni-Zn ferrites doped with CuO. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2353-2355.	1.2	59
14	Magnetic and magnetostrictive properties of Cu substituted Co-ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 398, 59-63.	1.0	54
15	Improved magnetostrictive properties of $\text{Co}^{1-x}\text{Mn}^x$ ferrites for automobile torque sensor applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 341, 60-64.	1.0	51
16	Magnetic and dielectric properties of $\text{Co}^{1-x}\text{Zn}^x$ ferrite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1040-1047.	1.7	49
17	Eco-environmental synthesis and characterization of nanophase powders of Co, Mg, Mn and Ni ferrites. <i>Ceramics International</i> , 2014, 40, 9599-9607.	2.3	47
18	Rare earth metals' influence on the heat generating capability of cobalt ferrite nanoparticles. <i>Ceramics International</i> , 2016, 42, 11958-11965.	2.3	43

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19	Rare earth doped cobalt ferrite thin films deposited by PLD. Applied Physics A: Materials Science and Processing, 2013, 110, 915-922.	1.1	42
20	Effects of the chemical composition of the magnetostrictive phase on the dielectric and magnetoelectric properties of cobalt ferrite-barium titanate composites. Journal of Alloys and Compounds, 2011, 509, 6644-6648.	2.8	41
21	Swift heavy ions irradiation studies on some ferrite nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 27-30.	0.6	36
22	Magneto electric effects in BaTiO ₃ -CoFe ₂ O ₄ bulk composites. Solid State Communications, 2012, 152, 1951-1955.	0.9	35
23	Jiles-Atherton Magnetic Hysteresis Parameters Identification. Acta Physica Polonica A, 2011, 120, 491-496.	0.2	35
24	Synthesis and characterization of mixed ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 310, e812-e814.	1.0	34
25	Structural and Magnetic Characterizations of Coprecipitated Ni-Zn and Mn-Zn Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2006, 42, 2858-2860.	1.2	32
26	Femtosecond pulsed laser deposition of cobalt ferrite thin films. Applied Surface Science, 2013, 278, 38-42.	3.1	23
27	Complex permeability spectra of Ni-Zn ferrites doped with V ₂ O ₅ /Nb ₂ O ₅ . Journal of Magnetism and Magnetic Materials, 2006, 304, e749-e751.	1.0	22
28	Quaternary M _{0.25} Cu _{0.25} Mg _{0.5} Fe ₂ O ₄ (M=Ni, Zn, Co, Mn) ferrite oxides: Synthesis, characterization and magnetic properties. Materials Research Bulletin, 2016, 81, 63-70.	2.7	21
29	Losses and magnetic properties of Bi ₂ O ₃ doped MnZn ferrites. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 362-364.	1.0	16
30	CoFe _{2-x} RE _x O ₄ (RE=Dy, Yb, Gd) magnetic nanoparticles for biomedical applications. Physica B: Condensed Matter, 2021, 606, 412849.	1.3	15
31	Differential Preisach model for the description of dynamic magnetization processes. Journal of Applied Physics, 1998, 83, 6359-6361.	1.1	13
32	Rate dependence of first-order reversal curves by using a dynamic Preisach model of hysteresis. Physica B: Condensed Matter, 2006, 372, 265-268.	1.3	13
33	Using the Jiles Atherton model to analyze the magnetic properties of magnetoelectric materials: (BaTiO ₃) _x (CoFe ₂ O ₄) _{1-x} . Indian Journal of Physics, 2012, 86, 283-289.	0.9	13
34	Magnetic Measurements of RE-Doped Cobalt Ferrite Thin Films. IEEE Transactions on Magnetics, 2013, 49, 46-49.	1.2	13
35	Improving the uncommon (110) growing orientation of Al-doped ZnO thin films through sequential pulsed laser deposition. Thin Solid Films, 2014, 571, 198-205.	0.8	13
36	Coprecipitated Cobalt Ferrite for Sensors. Sensor Letters, 2009, 7, 244-246.	0.4	13

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37	Bi _{0.95} Mn _{0.05} FeO ₃ - Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ Nanocomposites with Multiferroic Properties. Materials Today: Proceedings, 2015, 2, 3806-3812.	0.9	12
38	Structural and magnetic properties of zinc ferrite thin films irradiated by 90 keV neon ions. Applied Surface Science, 2016, 379, 171-178.	3.1	12
39	Comparative Study on the Microstructural and Magnetic Properties of Cobalt Ferrites Synthesized by Ceramic and Oxidation Wet Methods. IEEE Transactions on Magnetics, 2008, 44, 2936-2939.	1.2	9
40	The influence of the chelating/combustion agents on the structure and magnetic properties of zinc ferrite. Open Chemistry, 2012, 10, 1799-1807.	1.0	8
41	Characterization of vacuum evaporated In - Se thin films. Ionics, 2004, 10, 311-316.	1.2	7
42	Influence of silicon and cobalt substitutions on magnetostriction coefficient of cobalt ferrite. Hyperfine Interactions, 2008, 184, 179-184.	0.2	7
43	Jiles' Atherton model used in the magnetization process study for the composite magnetoelectric materials based on cobalt ferrite and barium titanate. Canadian Journal of Physics, 2011, 89, 787-792.	0.4	7
44	Ferromagnetic resonance parameters of ball-milled Ni-Zn ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2006, 304, e752-e754.	1.0	6
45	Tension and torsion magnetic sensors based on frequency harmonic content analysis of induced signal in perpendicular fields. Sensors and Actuators A: Physical, 1997, 59, 142-148.	2.0	4
46	Oleate Coated Magnetic Cores Based on Magnetite, Zn Ferrite and Co Ferrite Nanoparticles' Preparation, Physical Characterization and Biological Impact on Helianthus Annuus Photosynthesis. , 2010, , .		4
47	High-Frequency Specific Absorption Rate of Co _x Fe _{1-x} Fe ₂ O ₄ Ferrite Nanoparticles for Hipertermia Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	4
48	Modeling the complex permeability spectra of Ni-Zn ferrite. International Journal of Applied Electromagnetics and Mechanics, 2002, 13, 241-244.	0.3	3
49	Mössbauer and magnetic study of silicon substituted cobalt ferrite. Hyperfine Interactions, 2008, 184, 51-55.	0.2	3
50	Magnetic nanoparticles for medical applications: Progress and challenges. , 2013, , .		3
51	Cation Distribution of Cobalt-manganese Ferrite for Torque Sensor Applications. Materials Today: Proceedings, 2015, 2, 2491-2495.	0.9	3
52	Doped Cobalt Ferrites for Stress Sensor Applications. , 2007, , .		2
53	Synthesis and Characterization of Co-Ni and Fe ₃ O ₄ -Pd Nanocomposites. IEEE Transactions on Magnetics, 2012, 48, 1356-1359.	1.2	2
54	Effect of slow charged 90 keV Ne ⁸⁺ ions on zinc ferrite nanoparticles. Materials Research Express, 2019, 6, 095077.	0.8	2

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55	New Bio-surfactant used in the Synthesis of Functionalized Nanoferrites as Potential Catalysts. Current Nanoscience, 2017, 13, 247-253.	0.7	2
56	Modeling the temperature dependence of magnetization processes in soft ferrite cores. International Journal of Applied Electromagnetics and Mechanics, 2002, 13, 335-338.	0.3	1
57	Fourier transform of signal induced in circuits with soft ferrite cores. , 0, , .		1
58	Synthesis and physical investigation of Mn x Zn1â€“x Fe2O4 magnetic nanopowders coated with organic shell. Powder Metallurgy and Metal Ceramics, 2012, 51, 172-177.	0.4	1
59	Alternative Route for Obtaining NiFe_2O_4 Thin Films by Pulsed Laser Deposition. IEEE Transactions on Magnetics, 2013, 49, 22-25.	1.2	1
60	Compositional Dependence of Magnetostrictive Properties of Cobalt Ferrite. , 2011, , .		0