

O M Lemine

List of Publications by Year in descending order

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66
papers

1,459
citations

361413

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68
docs citations

68
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Sol-gel synthesis of 8nm magnetite (Fe ₃ O ₄) nanoparticles and their magnetic properties. Superlattices and Microstructures, 2012, 52, 793-799.	3.1	191
2	Microstructural characterisation of nanoparticles using, XRD line profiles analysis, FE-SEM and FT-IR. Superlattices and Microstructures, 2009, 45, 576-582.	3.1	118
3	Magnetic and optical properties of manganese doped ZnO nanoparticles synthesized by sol-gel technique. Superlattices and Microstructures, 2013, 60, 139-147.	3.1	116
4	Synthesis, structural, magnetic and optical properties of nanocrystalline ZnFe ₂ O ₄ . Physica B: Condensed Matter, 2011, 406, 1989-1994.	2.7	84
5	Mn doped zinc silicate nanophosphor with bifunctionality of green-yellow emission and magnetic properties. Ceramics International, 2017, 43, 6585-6591.	4.8	77
6	γ-Fe ₂ O ₃ by sol-gel with large nanoparticles size for magnetic hyperthermia application. Journal of Alloys and Compounds, 2014, 607, 125-131.	5.5	70
7	Superparamagnetic iron oxide nanocargoes for combined cancer thermotherapy and MRI applications. Physical Chemistry Chemical Physics, 2016, 18, 21331-21339.	2.8	60
8	Structural and magnetic properties of Mn-doped ZnO nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 107-112.	2.7	52
9	Study of defects in Li-doped ZnO thin films. Materials Science in Semiconductor Processing, 2019, 89, 149-153.	4.0	44
10	Rietveld analysis and Mössbauer spectroscopy studies of nanocrystalline hematite γ-Fe ₂ O ₃ . Journal of Alloys and Compounds, 2010, 502, 279-282.	5.5	42
11	Nanocrystalline Ni doped γ-Fe ₂ O ₃ for adsorption of metals from aqueous solution. Journal of Alloys and Compounds, 2014, 588, 592-595.	5.5	38
12	Sol-gel synthesis, structural, optical and magnetic properties of Co-doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2015, 26, 2614-2621.	2.2	38
13	Effect of Al doping in zinc ferrite nanoparticles and their structural and magnetic properties. Journal of Alloys and Compounds, 2020, 812, 152058.	5.5	30
14	The significant effect of size and concentrations of iron oxide nanoparticles on magnetic resonance imaging contrast enhancement. Results in Physics, 2019, 15, 102651.	4.1	27
15	Comparative heating efficiency of hematite (γ-Fe ₂ O ₃) and nickel ferrite nanoparticles for magnetic hyperthermia application. Ceramics International, 2020, 46, 28821-28827.	4.8	27
16	Maghemite (γ-Fe ₂ O ₃) and γ-Fe ₂ O ₃ -TiO ₂ Nanoparticles for Magnetic Hyperthermia Applications: Synthesis, Characterization and Heating Efficiency. Materials, 2021, 14, 5691.	2.9	26
17	Raman scattering reveals strong LO-phonon-hole-plasmon coupling in nominally undoped GaAsBi: optical determination of carrier concentration. Optics Express, 2014, 22, 11680.	3.4	23
18	Raman scattering studies of strain effects in (100) and (311)B GaAs _{1-x} Bi _x epitaxial layers. Journal of Applied Physics, 2013, 114, 193516.	2.5	22

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19	Green High-Yielding One-Pot Approach to Biginelli Reaction under Catalyst-Free and Solvent-Free Ball Milling Conditions. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 431.	2.5	22
20	Milled goethite nanocrystalline for selective and fast uptake of cadmium ions from aqueous solution. <i>Desalination and Water Treatment</i> , 2016, 57, 6531-6539.	1.0	21
21	Fabrication and characterization of nanostructured MgO-Fe ₂ O ₃ composite by mechanical milling as efficient adsorbent of heavy metals. <i>Journal of Alloys and Compounds</i> , 2019, 772, 1030-1039.	5.5	21
22	Synthesis, characterization and heating efficiency of Gd-doped maghemite (γ-Fe ₂ O ₃) nanoparticles for hyperthermia application. <i>Physica B: Condensed Matter</i> , 2022, 625, 413510.	2.7	21
23	Thermal annealing effects on the optical and structural properties of (100) GaAs _{1-x} Bi _x layers grown by Molecular Beam Epitaxy. <i>Superlattices and Microstructures</i> , 2014, 65, 48-55.	3.1	19
24	Size Effect on Magnetism of Fe Thin Films in Fe/Ir Superlattices. <i>Physical Review Letters</i> , 2001, 86, 3883-3886.	7.8	18
25	Effect of synthesis route on the uptake of Ni and Cd by MgFe ₂ O ₄ nanopowders. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	16
26	Evaluating magnetic and thermal effects of various Polymerylated magnetic iron oxide nanoparticles for combined chemo-hyperthermia. <i>New Journal of Chemistry</i> , 2022, 46, 5489-5504.	2.8	16
27	Ferromagnetism at room temperature in Zn _{0.95} Cu _{0.05} O nanoparticles synthesized by sol-gel method. <i>Materials Letters</i> , 2017, 194, 98-101.	2.6	14
28	Sol-gel synthesis and room temperature ferromagnetism in Mn doped ZnO nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5930-5936.	2.2	13
29	Defect-induced room temperature ferromagnetism in mechanically milled nanocrystalline In ₂ O ₃ powder. <i>Materials Letters</i> , 2016, 181, 152-155.	2.6	13
30	Neutron diffraction study and ab-initio calculations of nanostructured doped ZnO. <i>Journal of Alloys and Compounds</i> , 2012, 536, 66-72.	5.5	12
31	γ-Fe ₂ O ₃ /Gd ₂ O ₃ -chitosan magnetic nanocomposite for hyperthermia application: structural, magnetic, heating efficiency and cytotoxicity studies. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	12
32	Effects of strain, defects and crystal phase transition in mechanically milled nanocrystalline In ₂ O ₃ powder. <i>Materials Research Express</i> , 2019, 6, 025017.	1.6	11
33	Local magnetism of Fe in FeI _r (100) superlattices studied by ⁵⁷ Fe Mössbauer spectrometry. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 220-223.	2.3	10
34	Magneto-optical properties of GaBiAs layers. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 075103.	2.8	10
35	Magneto-thermal properties of Co-doped maghemite (γ-Fe ₂ O ₃) nanoparticles for magnetic hyperthermia applications. <i>Physica B: Condensed Matter</i> , 2022, 639, 413993.	2.7	10
36	The effect of Ni/Fe ratio on the physical properties of NiFe ₂ O ₄ nanocomposites. <i>Materials Research Express</i> , 2019, 6, 086107.	1.6	9

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37	Removal of cadmium(II) ions from aqueous solution using Ni (15 wt.%) -doped In_2O_3 nanocrystals: equilibrium, thermodynamic, and kinetic studies. <i>Water Science and Technology</i> , 2015, 72, 608-615.	2.5	8
38	Enhancement of saturation magnetisation through the addition of a nonmagnetic element in substitutional Fe-doped In_2O_3 powder. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166413.	2.3	8
39	Iron Oxide Mesoporous Magnetic Nanostructures with High Surface Area for Enhanced and Selective Drug Delivery to Metastatic Cancer Cells. <i>Pharmaceutics</i> , 2021, 13, 553.	4.5	8
40	Influence of divalent metals (Zn, Cu and Co) on the synthesis and magnetic properties of spinel ferrite nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8194-8205.	2.2	7
41	Photoluminescence intensity enhancement in self-assembled InAs quantum dots grown on (311)B and (100) GaAs substrates and coated with gold nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 233-236.	2.7	6
42	Transformation of Goethite to Hematite Nanocrystallines by High Energy Ball Milling. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-5.	1.8	6
43	Magnetic Hyperthermia Therapy Using Hybrid Magnetic Nanostructures. , 2019, , 125-138.		6
44	Nanoparticles for biomedical applications: current status, trends and future challenges. , 2013, , 1-132.		5
45	Application of neural network technique to high energy milling process for synthesizing ZnO nanopowders. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 273-278.	1.5	5
46	Fe ₂ O ₃ nanoparticles for magnetic hyperthermia applications. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1779, 7-13.	0.1	5
47	$(x)\text{ZnO}(1-x)\text{Fe}_2\text{O}_3$ nanocrystallines for the removal of cadmium(II) and nickel(II) from water: kinetic and adsorption studies. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2017, 66, 381-391.	1.4	5
48	Induced Room-Temperature Ferromagnetism in Un-doped Nanocrystalline Metal Oxide Powders Obtained by Mechanical Milling: A Review. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 271-274.	1.8	5
49	Doped Nanostructured Manganese Ferrites: Synthesis, Characterization, and Magnetic Properties. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-12.	2.7	5
50	Ferromagnetic order in substitutional Fe-doped In_2O_3 powder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 253-256.	2.7	4
51	A comparison of NO ₂ sensing characteristics of In_2O_3 - and Fe_3O_4 -iron oxide-based solid-state gas sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	4
52	Effects of argon ion irradiation on structural and magnetic properties of Tb/Fe multilayers. <i>Physica B: Condensed Matter</i> , 2006, 382, 266-270.	2.7	3
53	Discrepancy of room temperature ferromagnetism in Mo-doped In_2O_3 . <i>Bulletin of Materials Science</i> , 2013, 36, 25-29.	1.7	3
54	Modeling of the microstructural properties of $(x)\text{ZnO}(1-x)\text{Fe}_2\text{O}_3$ nanocrystallines by artificial neural network and response surface methodology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 95, 70-76.	5.0	3

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55	Room temperature ferromagnetism in Ni, Fe and Ag co-doped Cu ²⁺ ZnO nanoparticles: an experimental and first-principles DFT study. Journal of Materials Science: Materials in Electronics, 2018, 29, 14387-14395.	2.2	3
56	STRUCTURAL AND MAGNETIC PROPERTIES OF HEMATITE NANOCRYSTALLINE OBTAINED BY BALL MILLING. International Journal of Nanoscience, 2009, 08, 267-272.	0.7	2
57	Room temperature ferromagnetism in ball milled Cu-doped ZnO nanocrystallines: an experimental and first-principles DFT studies. Journal of Materials Science: Materials in Electronics, 2019, 30, 19833-19840.	2.2	2
58	Deep level transient spectroscopy characterisation of defects in AlGaIn/Si dual-band (UV/IR) detectors grown by MBE. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 101-104.	0.8	1
59	Mechanically Milled Co _{1-x} Fe _x O ₄ Nanocrystalline for Magnetic Hyperthermia Application. Journal of Nano Research, 2019, 59, 25-34.	0.8	1
60	Structural, Thermal, Morphological and Magnetic Properties of Al ³⁺ -Doped Nanostructured Spinel Nickel Ferrites. Science of Advanced Materials, 2021, 13, 794-802.	0.7	1
61	Unusual Magnetic Behaviour of BCT Fe Thin Films Evidenced by ⁵⁷ Fe Mössbauer Spectrometry. Materials Research Society Symposia Proceedings, 1997, 475, 169.	0.1	0
62	Two Curie temperatures in a single iron thin film. , 0, , .		0
63	Effects of milling time on the formation of nanocrystalline ZnO. International Journal of Nanoparticles, 2009, 2, 238.	0.3	0
64	Small angles X-ray diffraction and Mössbauer characterization of annealed Tb/Fe multilayer. Bulletin of Materials Science, 2011, 34, 71-74.	1.7	0
65	Application of neural network technique to planetary milling process for the production of ZnO nanopowders. , 2011, , .		0
66	Magnétisme local du fer dans les superlattices Fe/Ir(100). European Physical Journal Special Topics, 1996, 06, C7-207-C7-212.	0.2	0