

Thomas Moyo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2423719/publications.pdf>

Version: 2024-02-01

92
papers

1,105
citations

430442

18
h-index

476904

29
g-index

93
all docs

93
docs citations

93
times ranked

1292
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular precursor route for the phase selective synthesis of \hat{I}^{\pm} -MnS or metastable \hat{I}^3 -MnS nanomaterials for magnetic studies and deposition of thin films by AACVD. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106330.	1.9	4
2	Nb ₂ O ₅ as a radical modulator during oxidative dehydrogenation and as a Lewis acid promoter in CO ₂ assisted dehydrogenation of octane over confined 2D engineered NiO@Nb ₂ O ₅ @Al ₂ O ₃ . <i>Catalysis Science and Technology</i> , 2021, 11, 5321-5334.	2.1	4
3	Structural and Magnetic Properties of MnxBa _{0.5-x} Co _{0.5} Fe ₂ O ₄ Nanosized Ferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 2331-2338.	0.8	0
4	Temperature-dependent magnetic behavior of Mn-Mg spinel ferrites with substituted Co, Ni & Zn, synthesized by hydrothermal method. <i>Journal of Molecular Structure</i> , 2021, 1245, 131042.	1.8	19
5	Electronic and Simple Oscillatory Conduction in Ferrite Gas Sensors: Gas-Sensing Mechanisms, Long-Term Gas Monitoring, Heat Transfer, and Other Anomalies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43231-43249.	4.0	26
6	The effect of particle size on structural and magnetic properties of Sm ³⁺ ion substituted Zn-Mn nanoferrites synthesized by glycol-thermal method. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167096.	1.0	10
7	Ultra-sensitive and selective p-xylene gas sensor at low operating temperature utilizing Zn doped CuO nanoplatelets: Insignificant vestiges of oxygen vacancies. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 364-375.	5.0	51
8	Assessing the structural, morphological and magnetic properties of polymer-coated magnesium-doped cobalt ferrite (CoFe ₂ O ₄) nanoparticles for biomedical application. <i>Journal of Physics: Conference Series</i> , 2019, 1310, 012014.	0.3	10
9	Chitosan coating by mechanical milling of MnFe ₂ O ₄ and Mn _{0.5} Co _{0.5} Fe ₂ O ₄ : Effect of milling. <i>Journal of Physics: Conference Series</i> , 2019, 1310, 012016.	0.3	4
10	Mössbauer, Magnetization and Structure Characterizations of the Annealed Sr _{1/3} Mn _{1/3} Co _{1/3} Fe ₂ O ₄ Ferrite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2885-2893.	0.8	0
11	Superparamagnetic Behavior of Zn and Al Substituted Cobalt Nanoferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2793-2797.	0.8	2
12	Electron Spin Resonance Study of Zn _x Co _{1-x} Fe ₂ O ₄ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1817-1820.	0.8	2
13	Magnetic Properties of Mn-Substituted Zn@Mg- and Zn@Co-Nanosized Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1821-1826.	0.8	1
14	Magnetic Properties and Mössbauer Investigations of La _{0.67} Sr _{0.33} Fe _x Mn _{1-x} O ₃ (x = 0 and 0.5) Perovskites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1981-1989.	0.8	1
15	Mössbauer and electrical studies of Ni Co ₁ -Fe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 745, 187-195.	2.8	13
16	Structural and magnetocaloric effect studies of Ni ₄₃ Ti Mn ₄₆ Sn ₁₁ Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2018, 749, 672-680.	2.8	8
17	Effect of chitosan coating on the structural and magnetic properties of MnFe ₂ O ₄ and Mn _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. <i>AIP Advances</i> , 2018, 8, 056726.	0.6	15
18	Magnetic properties of Mn _{0.1} Mg _{0.2} TM _{0.7} Fe ₂ O ₄ (TM= Zn, Co, or Ni) prepared by hydrothermal processes: The effects of crystal size and chemical composition. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 448, 123-129.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Thermolytic synthesis of cobalt and cobalt sulfide nanoparticles using Cobalt(II) N ^ O Schiff base complexes as single molecular precursors. Turkish Journal of Chemistry, 2018, 42, 1224-1237.	0.5	1
20	Structural, magnetic and magnetocaloric effect studies of Ni _{42.5} (Fe, Co, Ni, Cu) _{0.5} Mn ₄₆ Sn ₁₁ Heusler alloys. AIP Advances, 2018, 8, 075120.	0.6	1
21	Magnetic Properties of Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ : the Effect of Synthesis Route. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3321-3325.	0.8	0
22	Structural and gas sensing properties of greigite (Fe ₃ S ₄) and pyrrhotite (Fe _{1-x} S) nanoparticles. Materials Chemistry and Physics, 2017, 198, 167-176.	2.0	18
23	Structural and Magnetic Studies of CoFe ₂ O ₄ Ferrite, CoFe ₂ O ₄ /CoFe ₂ Nanocomposites and CoFe ₂ Nano-alloy. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2371-2374.	0.8	0
24	Synthesis of rare pure phase Ni ₃ S ₄ and Ni ₃ S ₂ nanoparticles in different primary amine coordinating solvents. Polyhedron, 2017, 122, 16-24.	1.0	36
25	Synthesis and Magnetic Properties of Sn-Doped CoFe ₂ O ₄ Nanoferrites. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2017-2022.	0.8	3
26	Magnetic Iron Sulfide Nanoparticles for Potential Applications in Gas Sensing. MRS Advances, 2016, 1, 235-240.	0.5	10
27	Mössbauer and magnetic properties of annealed Ni _{1-x} Co _x Fe ₂ O ₄ nanoparticles. Journal of Alloys and Compounds, 2016, 683, 149-156.	2.8	11
28	Effect of annealing on exchange bias in Mg _{0.2} Fe _x Cr _{1.8-x} O ₃ nano oxides. Journal of Materials Science: Materials in Electronics, 2016, 27, 8916-8922.	1.1	0
29	Magnetic studies of Mn _{0.2} Cr _{1.8-x} Fe _x O ₃ nano oxides prepared via hydrothermal route. Journal of Materials Science: Materials in Electronics, 2016, 27, 9172-9178.	1.1	1
30	Temperature Dependence of Coercivity and Magnetization of Sr _{1/3} Mn _{1/3} Co _{1/3} Fe ₂ O ₄ Ferrite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2016, 29, 361-366.	0.8	20
31	The Magnetic Properties of Mn _{0.3} Mg _{0.2} Zn _{0.5} Fe ₂ O ₄ and Mn _{0.3} Mg _{0.2} Co _{0.5} Fe ₂ O ₄ : The Effect of Milling. Physics Procedia, 2015, 75, 1041-1049.	1.2	0
32	Influence of Annealing Process on the Structure and Magnetic Behavior of Ba _{0.5} Co _{0.5} Fe ₂ O ₄ Nanoparticles. Physics Procedia, 2015, 75, 1133-1141.	1.2	1
33	Synthesis, structural and magnetic properties of Zn _x Mg _{1-x} Fe ₂ O ₄ nanoferrites. Journal of Magnetism and Magnetic Materials, 2015, 381, 41-49.	1.0	32
34	Characteristics of the mechanical milling on the room temperature ferromagnetism and sensing properties of TiO ₂ nanoparticles. Applied Surface Science, 2015, 331, 362-372.	3.1	42
35	The effect of temperature on the structure and magnetic properties of Co _{0.5} Ni _{0.5} Fe ₂ O ₄ spinel nanoferrite. Journal of Magnetism and Magnetic Materials, 2015, 394, 223-228.	1.0	19
36	Synthesis and characterization of Ba _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticle ferrites: application as electrochemical sensor for ciprofloxacin. Journal of Materials Science: Materials in Electronics, 2015, 26, 5097-5105.	1.1	26

#	ARTICLE	IF	CITATIONS
37	NiO@ZrO ₂ nanocomposite modified electrode for the sensitive and selective determination of efavirenz, an anti-HIV drug. RSC Advances, 2015, 5, 40057-40064.	1.7	18
38	Magnetic studies of Sn _{0.2} Cr _{1.8} Fe _x O ₃ compounds prepared via the hydrothermal route. Journal of Magnetism and Magnetic Materials, 2015, 385, 282-285.	1.0	2
39	Investigation of magnetic and electrochemical sensing properties of novel Ba _{1/3} Mn _{1/3} Co _{1/3} Fe ₂ O ₄ nanoparticles. New Journal of Chemistry, 2015, 39, 9596-9604.	1.4	5
40	Structural and magnetic properties of CoFe ₂ O ₄ nanoferrite simultaneously and symmetrically substituted by Mg, Sr and Mn. Materials Chemistry and Physics, 2015, 164, 138-144.	2.0	4
41	XRD, Mössbauer and magnetic properties of Mg _x Co _{1-x} Fe ₂ O ₄ nanoferrites. Journal of Magnetism and Magnetic Materials, 2015, 373, 78-82.	1.0	32
42	Investigation of phase formation of (Zn, Mg) _{0.5} Co _{0.5} Fe ₂ O ₄ nanoferrites. Journal of Magnetism and Magnetic Materials, 2015, 373, 68-73.	1.0	10
43	Grain size effects on the magnetic properties of Zn _x Mn _{1-x} Fe ₂ O ₄ nanoferrites. Journal of Magnetism and Magnetic Materials, 2015, 373, 74-77.	1.0	7
44	Magnetism variations and susceptibility hysteresis at the metal-insulator phase transition temperature of VO ₂ in a composite film containing vanadium and tungsten oxides. Journal of Magnetism and Magnetic Materials, 2015, 375, 1-9.	1.0	15
45	Evidence of Superparamagnetism in Mg _{0.5} Mn _{0.5} Fe ₂ O ₄ Nanosized Ferrite. Journal of Superconductivity and Novel Magnetism, 2015, 28, 955-960.	0.8	4
46	Superparamagnetic behavior of Mn _x Ni _{1-x} Fe ₂ O ₄ spinel nanoferrites. Journal of Magnetism and Magnetic Materials, 2014, 361, 170-174.	1.0	33
47	Shape-Selective Dependence of Room Temperature Ferromagnetism Induced by Hierarchical ZnO Nanostructures. ACS Applied Materials & Interfaces, 2014, 6, 8981-8995.	4.0	117
48	Structural and magnetic properties of Sr _{0.5} Co _{0.5} Fe ₂ O ₄ nanoferrite. Journal of Magnetism and Magnetic Materials, 2014, 365, 83-87.	1.0	11
49	Electrical and Magnetoresistance Properties of Mg _x Mn _{1-x} Fe ₂ O ₄ Compounds. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1021-1025.	0.8	5
50	The Influence of Annealing Temperature on the Magnetic Properties of Mn _{0.5} Co _{0.5} Fe ₂ O ₄ Nanoferrites Synthesized via Mechanical Milling Method. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1361-1367.	0.8	9
51	Structural and magnetic studies of (Mg, Sr) _{0.2} Mn _{0.1} Co _{0.7} Fe ₂ O ₄ nanoferrites. Journal of Alloys and Compounds, 2013, 562, 156-163.	2.8	16
52	Magnetic properties of nanosized Mg _{0.5} Mn _{0.5} (RE) _{0.1} Fe _{1.9} O ₄ ferrites synthesized by glycol-thermal method. Journal of Magnetism and Magnetic Materials, 2013, 332, 123-129.	1.0	17
53	Tetracycline-ferrite nanocomposites formed via high-energy ball milling and the influence of milling conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 83, 184-192.	2.0	4
54	Synthesis and magnetic properties of Mg _{0.2} Cr _{1.8} Fe _x O ₃ nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 330, 159-162.	1.0	5

#	ARTICLE	IF	CITATIONS
55	Magnetic Properties of $Mg_x Mn_{1-x} Fe_2O_4$ Nanoferrites. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2643-2646.	0.8	20
56	Mössbauer and Magnetic Studies of $Co_{0.5}Mn_{0.5}Fe_2O_4$ and $Mn_{0.1}Mg_{0.2}Co_{0.7}Fe_2O_4$ Nanoferrites. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2619-2623.	0.8	5
57	The Effect of Annealing Temperature on the Magnetic Properties of $Mn_x Co_{1-x} Fe_2O_4$ Ferrites Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2625-2630.	0.8	18
58	Tin, Manganese Doped Chromium Iron Oxides of Composition $\hat{I}\pm-Sn_{0.2}Cr_{1.8-x}Fe_xO_3$ and $\hat{I}\pm-Mn_{0.2}Cr_{1.8-x}Fe_xO_3$. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2637-2641.	0.8	2
59	Preparation and solid-state characterization of ball milled saquinavir mesylate for solubility enhancement. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 194-202.	2.0	52
60	Mössbauer and magnetic studies of $Mn_{0.1}Sr_{0.2}Co_{0.7}Fe_2O_4$ nanoferrite. Hyperfine Interactions, 2011, 203, 99-104.	0.2	3
61	Mössbauer and Electrical Studies of $Mn_x Co_{1-x} Fe_2O_4$ Compounds Prepared via Glycothermal Route. Journal of Superconductivity and Novel Magnetism, 2011, 24, 669-673.	0.8	16
62	XRD, Magnetic and Mössbauer Spectral Studies of $Ag_x Ni_{1-x} Fe_2O_4$ Ferrite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2011, 24, 711-715.	0.8	3
63	Structural and magnetic properties of $Mn_x Co_{1-x} Fe_2O_4$ ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 471-474.	1.0	18
64	Mössbauer and magnetic studies of $Mn_{0.1}Sr_{0.2}Co_{0.7}Fe_2O_4$ nanoferrite. , 2011, , 257-262.		0
65	Magnetic properties of $Cu_x Co_{1-x} Fe_2O_4$ and $Al_x O_4$ oxides. Journal of Physics: Conference Series, 2010, 217, 012127.		1
66	Heat treatment effects on spinel phase of $Zn_x Ni_{1-x} Fe_2O_4$ and $MnFe_2O_4$ nanoferrites. Hyperfine Interactions, 2010, 197, 59-64.	0.2	6
67	Effect of synthesis route on the magnetic properties of (Cd, Tj) $ETQq_1 1 0.784314 rgBT / Overlock 10 Tf 50 267 Td (Cu)_{0.5}$ Conference Series, 2010, 200, 072067.	0.3	1
68	Structural and Mössbauer studies of $Mn_{0.5}Co_{0.5}Fe_2O_4$ ferrites prepared by high energy ball milling and glycolthermal methods. Journal of Physics: Conference Series, 2010, 217, 012141.	0.3	13
69	Heat treatment effects on spinel phase of $Zn_x Ni_{1-x} Fe_2O_4$ and $MnFe_2O_4$ nanoferrites. , 2010, , 59-64.		0
70	Synthesis and magnetic properties of $Cu_{0.5}Ni_{0.5}Fe_2O_4$ nanoparticles produced by glycothermal and hydrothermal processes. Hyperfine Interactions, 2009, 189, 151-158.	0.2	7
71	Effect of domain transformation on the magnetic properties of $Cu_x Ni_{1-x} Fe_2O_4$ ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 1246-1250.	1.0	25
72	Synthesis and magnetic properties of $Cu_{0.5}Ni_{0.5}Fe_2O_4$ nanoparticles produced by glycothermal and hydrothermal processes. , 2009, , 151-158.		0

#	ARTICLE	IF	CITATIONS
73	Optical properties of Zn _{0.5} (Ni,Co) _{0.5} Fe ₂ O ₄ mixed spinel ferrite thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 591-593.	0.8	5
74	Temperature dependence of the hyperfine fields in NiFe ₂ O ₄ and CuFe ₂ O ₄ oxides. , 2008, , 93-99.		0
75	Magnetic properties of bulk and nanosized ferrites. Journal of Magnetism and Magnetic Materials, 2007, 310, 2534-2536.	1.0	20
76	Tin-doped spinel-related oxides of composition M ₃ O ₄ (M = Mn, Fe, Co). Hyperfine Interactions, 2007, 168, 1165-1169.	0.2	1
77	Temperature dependence of the hyperfine fields in NiFe ₂ O ₄ and CuFe ₂ O ₄ oxides. Hyperfine Interactions, 2007, 176, 93-99.	0.2	4
78	⁵⁷ Fe- and ¹¹⁹ Sn-Mo ^{ss} bauer Studies of Tin Doped Chromium Iron Oxides of Composition $\hat{1}\pm\text{-Cr}2\hat{a}^{\sim}\text{xFe}\text{xO}3$. AIP Conference Proceedings, 2005, , .	0.3	1
79	Tin doping of $\hat{1}\pm\text{-Cr}2\text{O}3$ and $\hat{1}\pm\text{-(FeCr)}2\text{O}3$. Materials Letters, 2005, 59, 3241-3245.	1.3	9
80	M ^{ss} bauer Studies on (Zn, Cd, Cu) _{0.5} Ni _{0.5} Fe ₂ O ₄ Oxides. , 2005, , 151-156.		0
81	M ^{ss} bauer Studies on (Zn, Cd, Cu) _{0.5} Ni _{0.5} Fe ₂ O ₄ Oxides. Hyperfine Interactions, 2004, 158, 151-156.	0.2	6
82	M ^{ss} bauer and XRD Study of (Zn, Cd) x Co $\hat{1}\hat{a}^{\sim}\text{x Fe}2\hat{a}^{\sim}\text{x Al x O}4$ Spinel Ferrites. , 2002, , 181-184.		7
83	Magnetic Relaxation in (Zn, Cd) x Fe $1.7\hat{a}^{\sim}\text{x Co}0.9\text{Ti}0.4\text{O}4$ Spinel Oxides. Hyperfine Interactions, 2001, 136/137, 579-585.	0.2	8
84	Magnetic properties of (Zn,Cd,Cu) $\hat{a}^{\sim}\text{Co}\hat{e}^{\sim}\text{Fe}\hat{e}^{\sim}\text{Ti}$ spinel oxides. , 1999, 120/121, 285-289.		5
85	Volume effects in Fe-rich FeZr amorphous alloys. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 115-116.	1.0	0
86	Pressure and temperature variation of coercive field in Fe-rich Fe \hat{e}^{\sim} -Zr amorphous alloys. Journal of Magnetism and Magnetic Materials, 1996, 154, 201-206.	1.0	9
87	Compositional dependence of and effects of hydrogen doping on coercive fields of Fe-rich Fe - Zr amorphous alloys. Journal of Physics Condensed Matter, 1996, 8, 8915-8922.	0.7	3
88	Photodarkening and photobleaching of CdS microclusters grown in zeolites. Journal of Physics Condensed Matter, 1992, 4, 5653-5664.	0.7	12
89	Superconductivity in (Y $1\hat{a}^{\sim}\text{x Sr x}$) (Ba _{1.5} Sr _{0.5})Cu ₃ O ₇ \hat{a}^{\sim} d compounds. Bulletin of Materials Science, 1991, 14, 279-285.	0.8	3
90	Hyperfine field distributions and magnetic properties of melt-spun and sputtered Fe-rich Fe-Zr amorphous alloys. Journal of Magnetism and Magnetic Materials, 1989, 82, 87-93.	1.0	30

#	ARTICLE	IF	CITATIONS
91	Collapse of ferromagnetism in iron rich Fe-Zr amorphous alloys. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 309-310.	1.0	19
92	Low temperature magnetic hardness of melt spun Fe-Zr amorphous alloys. Journal of Magnetism and Magnetic Materials, 1984, 44, 279-286.	1.0	59