

Samar Layek

List of Publications by Year in descending order

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45
papers

1,019
citations

361413

20
h-index

434195

31
g-index

45
all docs

45
docs citations

45
times ranked

1676
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of iron doping concentration on magnetic properties of ZnO nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 2587-2591.	2.3	111
2	Room temperature ferromagnetism in Mn-doped NiO nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 397, 73-78.	2.3	63
3	Magnetic And Dielectric Properties Of Multiferroic BiFeO ₃ Nanoparticles Synthesized By A Novel Citrate Combustion Method. Advanced Materials Letters, 2012, 3, 533-538.	0.6	60
4	Fluoride adsorption studies on mixed-phase nano iron oxides prepared by surfactant mediation-precipitation technique. Journal of Hazardous Materials, 2011, 186, 1751-1757.	12.4	53
5	Size dependent electrical and magnetic properties of ZnFe ₂ O ₄ nanoparticles synthesized by the combustion method: Comparison between aspartic acid and glycine as fuels. Journal of Magnetism and Magnetic Materials, 2014, 354, 363-371.	2.3	53
6	Protonation of an Oxo-bridged Diiron Unit Gives Two Different Iron Centers: Synthesis and Structure of a New Class of Diiron(III)-hydroxo Bisporphyrins and the Control of Spin States by Using Counterions. Chemistry - A European Journal, 2012, 18, 13025-13037.	3.3	52
7	Preparation, structural and magnetic studies on BiFe _{1-x} Cr _x O ₃ (x = 0.0, 0.05 and 0.1) multiferroic nanoparticles. AIP Advances, 2013, 3, .	1.3	45
8	Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. AIP Advances, 2015, 5, .	1.3	43
9	Electrical and magnetic properties of spherical SmFeO ₃ synthesized by aspartic acid assisted combustion method. Materials Research Bulletin, 2015, 72, 77-82.	5.2	43
10	Synthesis, magnetic and Mössbauer spectroscopic studies of Cr doped lithium ferrite nanoparticles. Journal of Alloys and Compounds, 2014, 591, 174-180.	5.5	42
11	Valence fluctuation in Ce ₂ Co ₃ Ge ₅ and crystal field effect in Pr ₂ Co ₃ Ge ₅ . Journal of Magnetism and Magnetic Materials, 2009, 321, 3447-3452.	2.3	36
12	Pressure-driven collapse of the relativistic electronic ground state in a honeycomb iridate. Npj Quantum Materials, 2018, 3, .	5.2	36
13	Finite Size Effects in Magnetic and Optical Properties of Antiferromagnetic NiO Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	33
14	Corrosion Behavior of High-Strength Bainitic Rail Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1500-1518.	2.2	33
15	Pressure-Induced Site-Selective Mott Insulator-Metal Transition in Fe_2O_3 . Physical Review X, 2016, 6, .	1.9	32
16	Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. Journal of Magnetism and Magnetic Materials, 2015, 393, 555-561.	2.3	29
17	Enhancement in magnetic properties of Ba-doped BiFeO ₃ ceramics by mechanical activation. Journal of Alloys and Compounds, 2015, 651, 294-301.	5.5	27
18	Nuclearity Control in Molecular Iron Phosphates through Choice of Iron Precursors and Ancillary Ligands. Chemistry - an Asian Journal, 2009, 4, 923-935.	3.3	24

#	ARTICLE	IF	CITATIONS
19	The influence of precursors on phase evolution of nano iron oxides/oxyhydroxides: optical and magnetic properties. <i>New Journal of Chemistry</i> , 2014, 38, 3492-3506.	2.8	23
20	Influence of pH and fuels on the combustion synthesis, structural, morphological, electrical and magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Materials Research Bulletin</i> , 2015, 71, 122-132.	5.2	20
21	Effect of annealing on the magnetic properties of ball milled NiO powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 384, 296-301.	2.3	18
22	Structural and magnetic properties of Mg-doped nano Fe ₂ O ₃ particles synthesized by surfactant mediated precipitation technique. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 65-72.	1.5	17
23	Room Temperature Ferromagnetism in Fe-Doped CuO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1848-1853.	0.9	14
24	Superconductivity in multiple phases of compressed GeS_2 . <i>Physical Review B</i> , 2017, 95, .	3.2	13
25	Synthesis of Fe ₂ O ₃ nanoparticles with crystallographic and magnetic texture. <i>International Journal of Engineering, Science and Technology</i> , 2011, 2, .	0.6	10
26	Influence of Ca Ions on Surfactant Directed Nucleation and Growth of Nano Structured Iron Oxides and Their Magnetic Properties. <i>Crystal Growth and Design</i> , 2012, 12, 18-28.	3.0	10
27	FeCr ₂ O ₄ spinel to near megabar pressures: Orbital moment collapse and site-inversion facilitated spin crossover. <i>Physical Review B</i> , 2017, 95, .	3.2	10
28	Role of surface functionalization in ZnO:Fe nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 183, 39-46.	3.5	8
29	Site-specific spin crossover in FeTiO_4 post-spinel under high pressure up to nearly a megabar. <i>Physical Review B</i> , 2017, 96, .	3.2	8
30	Electronic and structural properties of the honeycomb iridates A ₂ IrO ₃ (A=Na, Li) at elevated pressures. <i>Physical Review B</i> , 2020, 102, .	3.2	8
31	Pressure-induced spin crossover in disordered LiFeO ₂ . <i>Physical Review B</i> , 2016, 94, .	3.2	7
32	Superconductor-insulator transition in fcc Fe_2O_3 at elevated pressures. <i>Physical Review B</i> , 2018, 97, .	3.2	7
33	Verwey-Type Charge Ordering and Site-Selective Mott Transition in Fe ₄ O ₅ under Pressure. <i>Journal of the American Chemical Society</i> , 2022, 144, 10259-10269.	13.7	7
34	Interplay between structural and magnetic-electronic responses of Fe_2O_3 to a megabar: Site inversion and spin crossover. <i>Physical Review B</i> , 2018, 97, .	3.2	5
35	High-pressure structural and electronic properties of CuMO ₂ (M=Cr, Mn) delafossite-type oxides. <i>Physical Review B</i> , 2020, 101, .	3.2	3
36	Preparation and Studies on (1-x) BiFeO ₃ –x Li _{0.5} Fe _{2.5} O ₄ (x=0.25 And 0.5) multiferroic nano-composites. <i>Advanced Materials Letters</i> , 2013, 4, 26-30.	0.6	3

#	ARTICLE	IF	CITATIONS
37	Preparation and Magnetic Studies on 10% Co-doped BiFeO ₃ Multiferroic Nanoparticles. , 2011, , .		2
38	Local probe studies of Fe hyperfine field in CaFe ₂ As ₂ by time differential perturbed angular distribution (TDPAD) spectroscopy and ab initio methods. Nuclear Instruments & Methods in Physics Research B, 2013, 299, 71-76.	1.4	2
39	Mössbauer and Magnetic Studies of Surfactant Mediated Ca ²⁺ /Mg Doped Ferrihydrite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 1834-1840.	0.9	2
40	Studies on the Synthesis and Physico-Chemical Properties of Porous LiFe _{0.9} M _{0.1} P ₂ O ₇ (M = Fe, Co, Mn,) Tj ETQq0 0 0 rgBT /Qverlock 10	0.9	2
41	Structural and Magnetic Properties of Dilute Ca ²⁺ Doped Iron Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 410-417.	0.9	2
42	XAS studies of pressure-induced structural and electronic transformations in γ -FeOOH. Journal of Physics Condensed Matter, 2019, 31, 325401.	1.8	2
43	Magnetism of Fe in SrFe ₂ As ₂ : Local investigation by time differential perturbed angular distribution (TDPAD) spectroscopy. Hyperfine Interactions, 2013, 221, 23-27.	0.5	1
44	Local Magnetic Behavior of ⁵⁴ Fe in SrFe ₂ As ₂ : Microscopic Study by Perturbed Angular Distribution Spectroscopy. , 2011, , .		0
45	LOCAL MAGNETIC BEHAVIOR OF ⁵⁴ Fe in EuFe ₂ As ₂ AND Eu _{0.5} K _{0.5} Fe ₂ As ₂ : MICROSCOPIC STUDY USING TIME DIFFERENTIAL PERTURBED ANGULAR DISTRIBUTION (TDPAD) SPECTROSCOPY. Modern Physics Letters B, 2013, 27, 1350234.	1.9	0