Samar Layek

List of Publications by Year
in descending order

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	Verwey-Type Charge Ordering and Site-Selective Mott Transition in Fe₄O₅ under Pressure. Journal of the American Chemical Society, 2022, 144, 10259-10269.	13.7	7
2	Electronic and structural properties of the honeycomb iridates A2IrO3 (A=Na , Li) at elevated pressures. Physical Review B, 2020, 102, .	3.2	8
3	High-pressure structural and electronic properties of CuMO2 (M=Cr,ÂMn) delafossite-type oxides. Physical Review B, 2020, 101, .	3.2	3
4	XAS studies of pressure-induced structural and electronic transformations in <i>Î±</i>-FeOOH. Journal of Physics Condensed Matter, 2019, 31, 325401.	1.8	2
5	Interplay between structural and magnetic-electronic responses of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeA</mml:mi><mml:msub><mml:mi mathvariant="normal">l</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> to a megabar: Site inversion and spin crossover. Physical Review B, 2018, 97, .	3.2	5
6	Superconductor-insulator transition in fcc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>GeS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>at elevated pressures. Physical Review B, 2018, 97, .	3.2	7
7	Pressure-Induced Site-Selective Mott Insulator-Metal Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review X, 2018, 8, .	8.9	32
8	Pressure-driven collapse of the relativistic electronic ground state in a honeycomb iridate. Npj Quantum Materials, 2018, 3, .	5.2	36
9	FeCr2O4spinel to near megabar pressures: Orbital moment collapse and site-inversion facilitated spin crossover. Physical Review B, 2017, 95, .	3.2	10
10	Site-specific spin crossover in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> post-spinel [illegible]. Physical Review B, 2016, [illegible]	3.2	8
11	Superconductivity [illegible] of compressed [illegible]<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>GeS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	13
12	Pressure-induced spin crossover in disorderedÎ±â^'LiFeO2. Physical Review B, 2016, 94, .	3.2	7
13	Studies on the Synthesis and Physico-Chemical Properties of Porous LiFe0.9M0.1P2O7 (M = Fe, Co, Mn,) Tj ETQq1 1 0.784314 rgBT /Ov	0.9	2
14	Structural and Magnetic Properties of Dilute Ca²⁺ Doped Iron Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 410-417.	0.9	2
15	Room temperature ferromagnetism in Mn-doped NiO nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 397, 73-78.	2.3	63
16	Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. AIP Advances, 2015, 5, .	1.3	43
17	Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. Journal of Magnetism and Magnetic Materials, 2015, 393, 555-561.	2.3	29
18	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

#	ARTICLE	IF	CITATIONS
19	Effect of annealing on the magnetic properties of ball milled NiO powders. Journal of Magnetism and Magnetic Materials, 2015, 384, 296-301.	2.3	18
20	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
21	Influence of pH and fuels on the combustion synthesis, structural, morphological, electrical and magnetic properties of CoFe2O4 nanoparticles. Materials Research Bulletin, 2015, 71, 122-132.	5.2	20
22	Enhancement in magnetic properties of Ba-doped BiFeO 3 ceramics byÂmechanical activation. Journal of Alloys and Compounds, 2015, 651, 294-301.	5.5	27
23	Finite Size Effects in Magnetic and Optical Properties of Antiferromagnetic NiO Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	33
24	Synthesis, magnetic and MÃ¶ssbauer spectroscopic studies of Cr doped lithium ferrite nanoparticles. Journal of Alloys and Compounds, 2014, 591, 174-180.	5.5	42
25	The influence of precursors on phase evolution of nano iron oxides/oxyhydroxides: optical and magnetic properties. New Journal of Chemistry, 2014, 38, 3492-3506.	2.8	23
26	Role of surface functionalization in ZnO:Fe nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 183, 39-46.	3.5	8
27	Size dependent electrical and magnetic properties of ZnFe2O4 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
28	Preparation, structural and magnetic studies on BiFe1-xCrxO3 (x = 0.0, 0.05 and 0.1) multiferroic nanoparticles. AIP Advances, 2013, 3, .	1.3	45
29	Magnetism of Fe in SrFe2As2: Local investigation by time differential perturbed angular distribution (TDPAD) spectroscopy. Hyperfine Interactions, 2013, 221, 23-27.	0.5	1
30	Local probe studies of Fe hyperfine field in CaFe2As2 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
31	Structural and magnetic properties of Mgâ€doped nanoâ€Î±â€Fe₂O₃ particles synthesized by surfactant mediationâ€"precipitation technique. Physica Status Solidi (B): Basic Research, 2013, 250, 65-72.	1.5	17
32	Room Temperature Ferromagnetism in Fe-Doped CuO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 1848-1853.	0.9	14
33	LOCAL MAGNETIC BEHAVIOR OF 54Fe in EuFe2As2 AND Eu0.5K0.5Fe2As2: MICROSCOPIC STUDY USING TIME DIFFERENTIAL PERTURBED ANGULAR DISTRIBUTION (TDPAD) SPECTROSCOPY. Modern Physics Letters B, 2013, 27, 1350234.	1.9	0
34	MÃ¶ssbauer and Magnetic Studies of Surfactant Mediated Caâ€"Mg Doped Ferrihydrite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 1834-1840.	0.9	2
35	Preparation and Studies on (1-x) BiFeO3â€"x Li0.5Fe2.5O4 (x=0.25 And 0.5) multiferroic nano-composites. Advanced Materials Letters, 2013, 4, 26-30.	0.6	3
36	Magnetic And Dielectric Properties Of Multiferroic BiFeO3Ânanoparticles Synthesized By A Novel Citrate Combustion Method. Advanced Materials Letters, 2012, 3, 533-538.	0.6	60

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37	Protonation of an Oxoâ€Bridged Diiron Unit Gives Two Different Iron Centers: Synthesis and Structure of a New Class of Diiron(III)â€Î¼â€hydroxo Bisporphyrins and the Control of Spin States by Using Counterions. Chemistry - A European Journal, 2012, 18, 13025-13037.	3.3	52
38	Influence of Ca Ions on Surfactant Directed Nucleation and Growth of Nano Structured Iron Oxides and Their Magnetic Properties. Crystal Growth and Design, 2012, 12, 18-28.	3.0	10
39	Synthesis of &#947â€"Fe₂O₃ nanoparticles with crystallographic and magnetic texture. International Journal of Engineering, Science and Technology, 2011, 2, .	0.6	10
40	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
41	Preparation and Magnetic Studies on 10% Co-doped BiFeO[sub 3] Multiferroic Nanoparticles. , 2011, , .		2
42	Local Magnetic Behavior of [sup 54]Fe in SrFe[sub 2]As[sub 2]: Microscopic Study by Perturbed Angular Distribution Spectroscopy. , 2011, , .		0
43	Effect of iron doping concentration on magnetic properties of ZnO nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 2587-2591.	2.3	111
44	Valence fluctuation in Ce2Co3Ge5 and crystal field effect in Pr2Co3Ge5. Journal of Magnetism and Magnetic Materials, 2009, 321, 3447-3452.	2.3	36
45	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