Rabindra Nath Bhowmik

List of Publications by Year in descending order

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60 papers

1,116 citations

331670 21 h-index 32 g-index

60 all docs 60 docs citations

60 times ranked 1185 citing authors

#	Article	IF	CITATIONS
1	Study of the modified magnetic, dielectric, ferroelectric and optical properties in Ni substituted GdFe _{1â^'x} Ni _x O ₃ orthoferrites. Nanotechnology, 2022, 33, 035705.	2.6	О
2	Compositional dependence of structural, magnetic and spin-phonon coupling properties in Fe2â°'xGaxO3 (xÂ=Â0.6–1.2) system with orthorhombic symmetry. Journal of Alloys and Compounds, 2022, 905, 164164.	5.5	5
3	Structural phase stabilization <i>via</i> Ba site doping with bivalent Sr, Ca and Zn ions and Fe site doping with trivalent Cr and Ga ions in the BaFe _{12} O _{19} hexaferrite and its magnetic modification. CrystEngComm, 2022, 24, 5269-5288.	2.6	10
4	Existence of two spin dynamics in the temperature and magnetic field dependence of the magnetization curves of ferrimagnetic Co1.75Fe1.25O4 and its composite with BaTiO3. Journal of Physics and Chemistry of Solids, 2021, 155, 110103.	4.0	2
5	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub><mml:mi mathvariant="normal">Pb<mml:mn>6</mml:mn></mml:mi </mml:msub> <mml:msub><mml:mi mathvariant="normal">Co<mml:mn>9</mml:mn></mml:mi </mml:msub> <mml:mo>(</mml:mo> <mml:msub><)</mml:msub>	m <mark>312</mark> mi) T	j E [†] Qq1 1 0.7
6	compound. Physical Review B. 2021, 104, . Experimental study of multiple magnetic transitions in micrometer and nano-grain sized Ni3TeO6-type oxide. Journal of Applied Physics, 2020, 128, 123902.	2.5	5
7	Effect of heat treatment on structural and magnetic properties of \hat{l}_{\pm} -Fe1.8Ga0.2O3 thin film. AIP Conference Proceedings, 2020, , .	0.4	O
8	Tuning of structural phase, magnetic spin order and electrical conductivity in mechanical alloyed material of α-Fe2O3 and α-Cr2O3 oxides. Journal of Magnetism and Magnetic Materials, 2020, 514, 167173.	2.3	8
9	High-Temperature Thermal Cycling Effect on the Irreversible Responses of Lattice Structure, Magnetic Properties, and Electrical Conductivity in Co _{2.75} Fe _{0.25} O _{4+δ} Spinel Oxide. Inorganic Chemistry, 2020, 59, 6763-6773.	4.0	11
10	Non-equilibrium magnetic properties in bimorphic phases of Erlr ₃ . Journal Physics D: Applied Physics, 2020, 53, 365304.	2.8	5
11	Physical properties of Rlr ₃ (R = Gd, Tb, Ho) compounds with coexisting polymorphic phases. Physical Chemistry Chemical Physics, 2019, 21, 16923-16936.	2.8	13
12	Lattice and magnetic structure in Co1.25Fe1.75O4 spinel ferrite using temperature dependent neutron diffraction. AIP Conference Proceedings, 2019, , .	0.4	0
13	Influence of Particle Size on the Electrical Properties and Magnetic Field Dependent I–V Characteristics of Nanocrystalline ZnFe ₂ O ₄ . Transactions of the Indian Ceramic Society, 2019, 78, 111-120.	1.0	5
14	Structural, magnetic and magneto-electric properties of Cr doped \hat{l}_{\pm} -Fe2O3. AIP Conference Proceedings, 2019, , .	0.4	2
15	Flexible and self-standing nickel ferrite–PVDF-TrFE cast films: promising candidates for high-end magnetoelectric applications. Dalton Transactions, 2019, 48, 16961-16973.	3.3	45
16	Meta-stable magnetic transitions and its field dependence in Co2.75Fe0.25O4 ferrite. AIP Conference Proceedings, 2018, , .	0.4	2
17	Dopamine functionalization of BaTiO ₃ : an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO ₃ -PVDF-TrFE nanocomposites. Dalton Transactions, 2018, 47, 2039-2051.	3.3	74
18	Non-equilibrium character of resistive switching and negative differential resistance in Ga-doped Cr2O3 system. Journal of Magnetism and Magnetic Materials, 2018, 457, 17-29.	2.3	17

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19	Unusual bidirectional frequency dependence of dynamical susceptibility in hexagonal intermetallic Pr2Ni0.95Si2.95. Scientific Reports, 2018, 8, 14870.	3.3	26
20	Magnetic field controlled electronic state and electric field controlled magnetic state in \hat{l}_{\pm} -Fe1.6Ga0.4O3 oxide. AIP Conference Proceedings, 2018, , .	0.4	0
21	Electric field controlled magnetic exchange bias and magnetic state switching at room temperature in Ga-doped α-Fe2O3 oxide. Journal of Magnetism and Magnetic Materials, 2018, 462, 105-118.	2.3	21
22	Effect of annealing temperatures on the electrical conductivity and dielectric properties of Ni _{1.5} Fe _{1.5} O ₄ spinel ferrite prepared by chemical reaction at different pH values. Materials Research Express, 2017, 4, 126105.	1.6	17
23	Structure, magnetic and electronic properties in Ga doped \hat{l} ±-Cr2O3 oxide. AIP Conference Proceedings, 2017, , .	0.4	O
24	Semiconductor to metallic type transition in Ni1.5Fe1.5O4 ferrite. AIP Conference Proceedings, 2016, , .	0.4	1
25	Study of magnetic field induced spin order in diluted antiferromagnetic states in a Ga doped α-Fe ₂ O ₃ system prepared by a chemical route and air annealing. RSC Advances, 2016, 6, 112960-112970.	3.6	10
26	Role of pH value during material synthesis and grain-grain boundary contribution on the observed semiconductor to metal like conductivity transition in Ni 1.5 Fe 1.5 O 4 spinel ferrite. Materials Chemistry and Physics, 2016, 177, 417-428.	4.0	24
27	Tuning of composite cubic spinel structure in Co1.75Fe1.25O4 spinel oxide by thermal treatment and its effects on modifying the ferrimagnetic properties. Journal of Alloys and Compounds, 2016, 680, 315-327.	5.5	23
28	Dielectric properties of \hat{l}_{\pm} -Fe1.6Ga0.4O3 oxide: A promising magneto-electric material. Journal of Alloys and Compounds, 2016, 680, 31-42.	5.5	37
29	Study of current-voltage characteristics of ferromagnetic \hat{l} ±-Fe1.64Ga0.36O3 oxide under magnetic fields. AIP Conference Proceedings, 2015, , .	0.4	1
30	Structure and magnetic properties of the composite of Co1.75Fe1.25O4 and BaTiO3. AIP Conference Proceedings, 2015, , .	0.4	1
31	Effect of structural phase transformation in FeGaO3 on its magnetic and ferroelectric properties. AIP Conference Proceedings, 2015, , .	0.4	1
32	Ga doped hematite (& $\#$ x03B1;-Fe <inf>2</inf> O <inf>3</inf>): A promising magnetic sensor material. , 2015, , .		0
33	Air annealing effects on lattice structure, charge state distribution of cations, and room temperature ferrimagnetism in the ferrite composition Co _{2.25} Fe _{0.75} O ₄ . Materials Research Express, 2015, 2, 036101.	1.6	24
34	Magnetic and electrical properties of Ti-substituted lanthanum bismuth manganites. Journal of Materials Science, 2015, 50, 3562-3575.	3.7	30
35	Structural phase change in Co2.25Fe0.75O4 spinel oxide by vacuum annealing and role of coexisting CoO phase on magnetic properties. Journal of Alloys and Compounds, 2015, 646, 161-169.	5.5	30
36	Structural characterization and ferromagnetic properties in Ga3+doped \hat{t} -Fe2O3 system prepared by coprecipitation route and vacuum annealing. Journal of Applied Physics, 2014, 116, .	2.5	32

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37	Dielectric properties and signature of multi-ferroelectricity in Co2FeO4: A structurally single phased and bi-phased spinel oxide. Journal of Alloys and Compounds, 2014, 589, 247-257.	5.5	19
38	Study of microstructure and semiconductor to metallic conductivity transition in solid state sintered Li0.5Mn0.5Fe2O4 $\hat{a}^{\gamma}\hat{l}^{\gamma}$ spinel ferrite. Journal of Applied Physics, 2013, 114, .	2.5	29
39	Grain size dependent magnetization, electrical resistivity and magnetoresistance in mechanically milled La0.67Sr0.33MnO3. Journal of Alloys and Compounds, 2012, 511, 22-30.	5.5	40
40	Dielectric and magnetic study of BaTi0.5Mn0.5O3 ceramics, synthesized by solid state sintering, mechanical alloying and chemical routes. Ceramics International, 2012, 38, 5069-5080.	4.8	27
41	Structural, magnetic and electrical study of nano-structured α-Fe1.4Ti0.6O3. Journal of Physics and Chemistry of Solids, 2012, 73, 330-337.	4.0	7
42	Study of surface magnetism, exchange bias effect, and enhanced ferromagnetism in \hat{l} ±-Fe1.4Ti0.6O3 alloy. Journal of Applied Physics, 2011, 109, .	2.5	20
43	La Doped Disorder in La[sub x]Ca[sub 2â^'x]FeMoO[sub 6] Ferrimagnet: Magnetic and Thermoelectric Study., 2011,,.		O
44	Grain size dependent magneto-transport in La0.67Sr0.33MnO3. , 2011, , .		0
45	Structural and electrical conductivity study of mechanical alloyed \hat{l}_{\pm} -Fe[sub 1.4]Ti[sub 0.6]O[sub 3] oxide., 2011,,.		1
46	Disorder induced magnetism and electrical conduction in La doped Ca2FeMoO6 double perovskite. Journal of Applied Physics, 2010, 108, 103908.	2.5	12
47	Connectivity between electrical conduction and thermally activated grain size evolution in Ho-doped CoFe ₂ O ₄ ferrite. Journal Physics D: Applied Physics, 2010, 43, 465002.	2.8	19
48	Study of disorder effects in La substituted Ca2FeMoO6 ferrimagnet using magnetic and transport measurements. Journal of Alloys and Compounds, 2009, 486, 536-542.	5.5	11
49	Evidence of disorder induced magnetic spin glass phase in Sr2FeMoO6 double perovskite. Journal of Applied Physics, 2009, 106, .	2.5	41
50	Magnetism of crystalline and amorphous La0.67Ca0.33MnO3 nanoparticles. Journal of Applied Physics, 2009, 105, .	2.5	43
51	Structural And Magnetic Transition In Mechanically Milled La[sub 0.67]Ca[sub 0.33]MnO[sub 3]. AIP Conference Proceedings, 2008, , .	0.4	1
52	Magnetic order and electrical conductivity scaling of the spinel oxideMn0.5Ru0.5Co2O4. Physical Review B, 2006, 74, .	3.2	44
53	Lattice expansion and noncollinear to collinear ferrimagnetic order in aMnCr2O4nanoparticle. Physical Review B, 2006, 73, .	3.2	68
54	Role of strain-induced anisotropy on magnetic enhancement in mechanically alloyedCo0.2Zn0.8Fe2O4nanoparticle. Physical Review B, 2005, 72, .	3.2	50

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55	Magnetic enhancement in antiferromagnetic nanoparticle of CoRh2O4. Physical Review B, 2004, 69, .	3.2	105
56	Magnetic enhancement of Co0.2Zn0.8Fe2O4spinel oxide by mechanical milling. Physical Review B, 2003, 68, .	3.2	40
57	Re-entrant spin glass and magnetoresistance in Co0.2Zn0.8Fe1.6Ti0.4O4 spinel oxide. Journal of Applied Physics, 2003, 93, 2780-2788.	2.5	14
58	Structural and magnetic properties of room temperature milled Co0.2Zn0.8Fe2O4 spinel oxide. Journal of Materials Science, 2002, 37, 4391-4398.	3.7	7
59	Enhanced magnetoresistance on substitution of Mn in SrRuO3. Journal of Physics Condensed Matter, 2001, 13, 9481-9488.	1.8	8
60	Size dependent magnetic phase of nanocrystalline Co0.2Zn0.8Fe2O4. Journal of Applied Physics, 2001, 90, 4138-4142.	2.5	27