Manoj Kumar

List of Publications by Year
in descending order

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79 papers	3,197 citations	147801 31 h-index	155660 55 g-index
79 all docs	79 docs citations	79 times ranked	2666 citing authors

#	Article	IF	Citations
1	Structural, magnetic, dielectric and optical properties of nickel ferrite nanoparticles synthesized by co-precipitation method. Journal of Molecular Structure, 2014, 1076, 55-62.	3.6	304
2	Study of room temperature magnetoelectric coupling in Ti substituted bismuth ferrite system. Journal of Applied Physics, 2006, 100, 074111.	2.5	204
3	Improvement in magnetic behaviour of cobalt doped magnesium zinc nano-ferrites via co-precipitation route. Journal of Alloys and Compounds, 2016, 684, 569-581.	5.5	158
4	Multiferroic, magnetoelectric and optical properties of Mn doped BiFeO3 nanoparticles. Solid State Communications, 2012, 152, 525-529.	1.9	147
5	Rapid liquid phase sintered Mn doped BiFeO3 ceramics with enhanced polarization and weak magnetization. Applied Physics Letters, 2007, 91, .	3.3	132
6	Nickel substitution induced effects on gas sensing properties of cobalt ferrite nanoparticles. Journal of Alloys and Compounds, 2016, 654, 460-466.	5.5	106
7	Structural, magnetic, and optical properties of Pr and Zr codoped BiFeO3 multiferroic ceramics. Journal of Applied Physics, 2012, 112, .	2.5	97
8	Structural, vibrational, optical, magnetic and dielectric properties of Bi 1â^'x Ba x FeO 3 nanoparticles. Ceramics International, 2013, 39, 6399-6405.	4.8	94
9	Effect of Gd3+ substitution on structural, magnetic, dielectric and optical properties of nanocrystalline CoFe2O4. Journal of Magnetism and Magnetic Materials, 2017, 426, 252-263.	2.3	83
10	Superparamagnetic La doped Mnâ€“Zn nano ferrites: dependence on dopant content and crystallite size. Materials Research Express, 2016, 3, 075001.	1.6	81
11	Effect of Dy substitution on structural, magnetic and optical properties of BiFeO3 ceramics. Journal of Physics and Chemistry of Solids, 2014, 75, 105-108.	4.0	79
12	Enhancement in A-B super-exchange interaction with Mn substitution in Mg-Zn ferrites as a heating source in hyperthermia applications. Ceramics International, 2017, 43, 13661-13669.	4.8	79
13	Magnetoelectric characterization of xNi0.75Co0.25Fe2O4â€“(1â^'x)BiFeO3 nanocomposites. Journal of Physics and Chemistry of Solids, 2007, 68, 1791-1795.	4.0	77
14	Study of dielectric, magnetic, ferroelectric and magnetoelectric properties in the PbMnxTi1â^'xO3system at room temperature. Journal of Physics Condensed Matter, 2007, 19, 242202.	1.8	72
15	Large magnetization and weak polarization in solâ€“gel derived BiFeO3 ceramics. Materials Letters, 2008, 62, 1159-1161.	2.6	71
16	Substitution driven structural and magnetic transformation in Ca-doped BiFeO₃ nanoparticles. RSC Advances, 2016, 6, 43080-43090.	3.6	68
17	Gd doped Mn-Zn soft ferrite nanoparticles: Superparamagnetism and its correlation with other physical properties. Journal of Magnetism and Magnetic Materials, 2017, 432, 208-217.	2.3	68
18	Structural, magnetic, vibrational and impedance properties of Pr and Ti codoped BiFeO3 multiferroic ceramics. Ceramics International, 2014, 40, 7805-7816.	4.8	65

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19	Structural, Optical and Multiferroic Properties of BiFeO3 Nanoparticles Synthesized by Soft Chemical Route. Journal of Superconductivity and Novel Magnetism, 2013, 26, 443-448.	1.8	59
20	Nanomaterials for high frequency device and photocatalytic applications: Mg-Zn-Ni ferrites. Journal of Alloys and Compounds, 2018, 746, 532-539.	5.5	57
21	Magnetic field induced phase transition in multiferroic BiFe1â^'xTixO3 ceramics prepared by rapid liquid phase sintering. Applied Physics Letters, 2007, 91, 112911.	3.3	56
22	Influence of Eu substitution on structural, magnetic, optical and dielectric properties of BiFeO3 multiferroic ceramics. Ceramics International, 2015, 41, 2389-2398.	4.8	56
23	Structural, magnetic and optical properties of Ce substituted BiFeO3 nanoparticles. Ceramics International, 2015, 41, 5705-5712.	4.8	51
24	The effect of Ti substitution on magnetoelectric coupling at room temperature in the BiFe1â^'xTixO3system. Journal of Physics Condensed Matter, 2006, 18, L503-L508.	1.8	49
25	Structural, vibrational, optical and magnetic properties of solâ€“gel derived Nd doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2013, 24, 5102-5110.	2.2	49
26	Low temperature ferromagnetic ordering and dielectric properties of Bi1-xDyxFeO3 ceramics. Ceramics International, 2015, 41, 3227-3236.	4.8	49
27	Structural, morphological, magnetic and optical study of co-precipitated Nd3+ doped Mn-Zn ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 479, 317-325.	2.3	48
28	A comparative study on structural, vibrational, dielectric and magnetic properties of microcrystalline BiFeO3, nanocrystalline BiFeO3 and coreâ€“shell structured BiFeO3@SiO2 nanoparticles. Journal of Alloys and Compounds, 2016, 666, 454-467.	5.5	46
29	Structural, magnetic and dielectric properties of Gd3+ substituted NiFe2O4 nanoparticles. Journal of Alloys and Compounds, 2018, 768, 287-297.	5.5	38
30	Structural transition, magnetic and optical properties of Pr and Ti co-doped BiFeO3 ceramics. Journal of Magnetism and Magnetic Materials, 2014, 349, 264-267.	2.3	37
31	Substitution driven structural and magnetic properties and evidence of spin phonon coupling in Sr-doped BiFeO₃ nanoparticles. RSC Advances, 2016, 6, 68028-68040.	3.6	34
32	Synthesis of nanocrystalline xCuFe2O4â€“(1â^'x)BiFeO3 magnetoelectric composite by chemical method. Materials Letters, 2007, 61, 2089-2092.	2.6	32
33	Effect of Ni2+ substitution on structural, magnetic, dielectric and optical properties of mixed spinel CoFe2O4 nanoparticles. Ceramics International, 2016, 42, 18154-18165.	4.8	31
34	Structural, magnetic and optical properties of Bi1â^'xDyxFeO3 nanoparticles synthesized by solâ€“gel method. Materials Letters, 2013, 96, 71-73.	2.6	30
35	Electron spin resonance studies and improved magnetic properties of Gd substituted BiFeO3 ceramics. Ceramics International, 2015, 41, 777-786.	4.8	26
36	Effect of Y3+ substitution on structural, electrical and optical properties of BiFeO3 ceramics. Ceramics International, 2014, 40, 1971-1977.	4.8	25

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37	Effect of Non-magnetic Ions Substitution on Structural, Magnetic and Optical Properties of BiFeO3 Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1867-1871.	1.8	24
38	Multiferroic and optical properties of Pr-substituted bismuth ferrite ceramics. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1442-1447.	1.8	23
39	Influence of Mn doping on structural, electrical and magnetic properties of (0.90)BiFeO3â€“(0.10)BaTiO3 composite. Journal of Materials Science: Materials in Electronics, 2014, 25, 2199-2209.	2.2	23
40	Evidence of spin-two phonon coupling and improved multiferroic behavior of Bi1â^'xDyxFeO3 nanoparticles. Ceramics International, 2014, 40, 13347-13356.	4.8	21
41	Structural, Dielectric, Ferroelectric and Magnetic Properties of Bi0.80A0.20FeO3 (A=Pr,Y) Multiferroics. Journal of Superconductivity and Novel Magnetism, 2013, 26, 657-661.	1.8	19
42	Phase Evolution, Magnetic, Optical, and Dielectric Properties of Zrâ€Substituted Bi_{0.9}Gd_{0.1}FeO₃ Multiferroics. Journal of the American Ceramic Society, 2015, 98, 1884-1890.	3.8	19
43	Enhanced Saturation Magnetization in Cobalt Doped Ni-Zn Ferrite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3557-3564.	1.8	19
44	Raman spectroscopy probed spin-two phonon coupling and improved magnetic and optical properties in Dy and Zr substituted BiFeO3 nanoparticles. Journal of Alloys and Compounds, 2017, 692, 236-242.	5.5	19
45	Electron spin resonance study and improved magnetic and dielectric properties of Gdâ€“Ti co-substituted BiFeO3 ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 5366-5374.	2.2	17
46	Structural modification and enhanced magnetic properties with two phonon modes in Caâ€“Co codoped BiFeO3 nanoparticles. Ceramics International, 2015, 41, 14306-14314.	4.8	17
47	Influence of Na substitution on structural, magnetic, optical and photocatalytic properties of bismuth ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 20191-20209.	2.2	17
48	Spin-phonon coupling and improved multiferroic properties of Zr substituted BiFeO3 nanoparticles. Journal of Materials Science: Materials in Electronics, 2014, 25, 4286-4299.	2.2	16
49	Influence of Co 2 + Substitution on Cation Distribution and on Different Properties of NiFe 2 O 4 Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1561-1572.	1.8	16
50	Stable and luminescent wurtzite CdS, ZnS and CdS/ZnS core/shell quantum dots. Applied Physics A: Materials Science and Processing, 2014, 117, 1249-1258.	2.3	15
51	Electron spin resonance probed enhanced magnetization and optical properties of Sm doped BiFeO3 nanoparticles. Materials Letters, 2014, 137, 285-288.	2.6	15
52	Room temperature ferromagnetism and electrical properties of Mn-doped Zn2SnO4 nanorods. Superlattices and Microstructures, 2018, 120, 161-169.	3.1	15
53	Caâ€“Li substitution driven structural, dynamics of electron density, magnetic and optical properties of BiFeO3 nanoparticles. Journal of Alloys and Compounds, 2019, 811, 151965.	5.5	15
54	Band gap tuning and optical properties of BiFeO3 nanoparticles. Materials Today: Proceedings, 2020, 28, 168-171.	1.8	14

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55	Raman spectroscopy and enhanced magnetic and dielectric properties of Pr and Ti codoped BiFeO3 ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 530-538.	2.2	13
56	Observation of room temperature magnetoelectric coupling in Pb1â^'xBax(Fe0.5Ti0.5)O3 system. Journal of Applied Physics, 2007, 101, 054105.	2.5	12
57	Observation of room temperature magnetoelectric coupling in a Ni substituted Pb1â^'xNixTiO3 system. Journal of Applied Physics, 2007, 102, 076107.	2.5	12
58	Structural, magnetic and optical properties of Hoâ€"Co codoped BiFeO3 nanoparticles. Materials Letters, 2014, 132, 327-330.	2.6	12
59	Effect of Na/Co co-substituted on structural, magnetic, optical and photocatalytic properties of BiFeO3 nanoparticles. Materials Chemistry and Physics, 2021, 263, 124402.	4.0	10
60	Rietveld analysis, magnetic, vibrational and impedance properties of (Bi1â^'xPrx)(Fe1â^'xZrx)O3 ceramics. Journal of Materials Science: Materials in Electronics, 2013, 24, 5023-5034.	2.2	9
61	Effect of Zr substitution on structural, magnetic, and optical properties of Bi0.9Dy0.1Fe1â^'xZrxO3 multiferroic ceramics prepared by rapid liquid phase sintering method. Ceramics International, 2017, 43, 4904-4909.	4.8	7
62	Effect of Sr substitution on structural, dielectric, magnetic and magnetoelectric properties of rapid liquid sintered BiFe0.8Ti0.2O3 ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 4743-4749.	2.2	6
63	Structural, magnetic, dielectric, vibrational and optical properties of Zr substituted Bi0.90Gd0.10FeO3 multiferroics. Journal of Alloys and Compounds, 2018, 735, 684-691.	5.5	5
64	Parameters dependent synthesis of zinc stannate nanowires using CVD and its porphyrin dye loaded optical studies. Vacuum, 2019, 161, 201-208.	3.5	5
65	Band-gap tuning and magnetic properties of heterovalent ions (Ba, Sr and Ca) substituted BiFeO3 nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	4
66	Structural, raman, dielectric, magnetic and magnetoelectric properties of Ba and Mn doped BiFeO<inf>3</inf> nanoparticles. , 2013, , .		3
67	Effect of Pr³⁺ substitution on structural, dielectric, electrical and magnetic properties of BiFe_{0.80}Ti_{0.20}O₃ [Bi_{1-x}Pr_xFe_{0.80}Ti_{0.20}O₃, xâ€‰=â€‰0.05, 0.10, 0.15] ceramics. Integrated Ferroelectrics, 2018, 193, 1-13.	0.7	3
68	Optical properties of Y and Ti co-substituted BiFeO3 multiferroics. , 2014, , .		2
69	Effect of Pr substitution on structural, magnetic, and optical properties of Bi1â^'xPrxFe0.80Ti0.20O3 multiferroic ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 1011-1014.	2.2	2
70	Influence of Cr3+ doping on multiferroic properties in the morphotropic phase boundary compositions of BiFeO3â€"PbTiO3 system. Journal of Materials Science: Materials in Electronics, 2019, 30, 16539-16547.	2.2	2
71	Optical properties of Gd3+ substituted CoFe2O4 Nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	2
72	Structural, magnetic, optical, and photocatalytic properties of Caâ€"Ni doped BiFeO3 nanoparticles. Journal of Materials Science: Materials in Electronics, 2022, 33, 16856-16873.	2.2	2

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73	Linking Catalyst Phase with CNT Morphology and its Subsequent Field Emission Characteristics: An Optimization Study. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 375-383.	2.1	1
74	Optical and magnetic properties of Co2+ substituted NiFe2O4 nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	1
75	Microstructural and transport characterization of Co2MnSi thin films. AIP Conference Proceedings, 2018, , .	0.4	1
76	Antibacterial activity and ferroelectric properties of Nd3+ doped ZnO nanostructured materials. AIP Conference Proceedings, 2018, , .	0.4	1
77	Optical and electrical studies of barium stannate micro rods synthesized via chemical process. AIP Conference Proceedings, 2018, , .	0.4	0
78	Room temperature multiferroic properties of rapid liquid phase sintered Pb+2 doped bismuth ferrite. AIP Conference Proceedings, 2018, , .	0.4	0
79	Effect of Ca and Ni co-substitution on structural and magnetic properties of BiFeO3 nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	0