B Parvatheeswara Rao

List of Publications by Year
in descending order

61 papers	1,815 citations	279798 23 h-index	265206 42 g-index
61 all docs	61 docs citations	61 times ranked	2035 citing authors

#	Article	IF	Citations
1	Electrical properties of In3+and Cr3+substituted magnesiumâ€“manganese ferrites. Journal Physics D: Applied Physics, 2005, 38, 673-678.	2.8	132
2	Effect of sintering conditions on resistivity and dielectric properties of Ni-Zn ferrites. Journal of Materials Science, 1997, 32, 6049-6054.	3.7	127
3	Fe3O4/TiO2 core/shell nanocubes: Single-batch surfactantless synthesis, characterization and efficient catalysts for methylene blue degradation. Ceramics International, 2014, 40, 11177-11186.	4.8	120
4	Highly stable- silica encapsulating magnetite nanoparticles (Fe3O4/SiO2) synthesized using single surfactantless- polyol process. Ceramics International, 2014, 40, 1379-1385.	4.8	97
5	Effects of Mn doping on structural, dielectric and multiferroic properties of BiFeO3 nanoceramics. Journal of Alloys and Compounds, 2016, 676, 193-201.	5.5	82
6	The influence of Mn doping level on magnetostriction coefficient of cobalt ferrite. Journal of Magnetism and Magnetic Materials, 2007, 316, e618-e620.	2.3	81
7	Synthesis of high magnetization hydrophilic magnetite (Fe3O4) nanoparticles in single reactionâ€"Surfactantless polyol process. Ceramics International, 2013, 39, 7605-7611.	4.8	78
8	Distribution of In3+ ions in indium-substituted Niâ€“Znâ€“Ti ferrites. Journal of Magnetism and Magnetic Materials, 2005, 292, 44-48.	2.3	72
9	Size-controlled high magnetization CoFe2O4 nanospheres and nanocubes using rapid one-pot sonochemical technique. Ceramics International, 2014, 40, 3269-3276.	4.8	70
10	One-pot synthesis of high magnetization air-stable FeCo nanoparticles by modified polyol method. Materials Letters, 2013, 91, 326-329.	2.6	63
11	High Magnetostrictive Cobalt Ferrite for Sensor Applications. Sensor Letters, 2007, 5, 45-47.	0.4	62
12	Impedance spectroscopy and dielectric properties of multiferroic BiFeO3/Bi0.95Mn0.05FeO3â€“Ni0.5Zn0.5Fe2O4 composites. Ceramics International, 2016, 42, 2186-2197.	4.8	61
13	Magnetic and magnetostrictive properties of Cu substituted Co-ferrites. Journal of Magnetism and Magnetic Materials, 2016, 398, 59-63.	2.3	54
14	Improved magnetostrictive properties of Coâ€“Mn ferrites for automobile torque sensor applications. Journal of Magnetism and Magnetic Materials, 2013, 341, 60-64.	2.3	51
15	Shape and size-controlled synthesis of Ni Zn ferrite nanoparticles by two different routes. Materials Chemistry and Physics, 2014, 147, 443-451.	4.0	49
16	Microstructural and magnetic behavior of mixed Niâ€“Znâ€“Co and Niâ€“Znâ€“Mn ferrites. Ceramics International, 2014, 40, 8729-8735.	4.8	45
17	Enhanced magnetic and magnetoelectric properties of Mn doped multiferroic ceramics. Ceramics International, 2017, 43, 9272-9275.	4.8	45
18	Cation distribution of Ni-Zn-Mn ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 456, 444-450.	2.3	40

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19	Influence of V2O5 additions on the permeability and power loss characteristics of Niâ€“Zn ferrites. Materials Letters, 2007, 61, 1601-1604.	2.6	39
20	X-ray and magnetic studies of scandium substituted Ni-Zn ferrites. IEEE Transactions on Magnetics, 1997, 33, 4454-4458.	2.1	37
21	Swift heavy ions irradiation studies on some ferrite nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 27-30.	1.4	36
22	Soft chemical synthesis and characterization of Ni0.65Zn0.35Fe2O4 nanoparticles. Journal of Applied Physics, 2007, 101, 123902.	2.5	32
23	Effect of Mn/Co substitutions on the resistivity and dielectric properties of nickelâ€“zinc ferrites. Ceramics International, 2016, 42, 9591-9598.	4.8	28
24	Facile approach for synthesis of high moment Fe/ferrite and FeCo/ferrite core/shell nanostructures. Materials Letters, 2015, 139, 161-164.	2.6	24
25	Complex permeability spectra of Niâ€“Zn ferrites doped with V2O5/Nb2O5. Journal of Magnetism and Magnetic Materials, 2006, 304, e749-e751.	2.3	22
26	Size controlled sonochemical synthesis of highly crystalline superparamagnetic Mnâ€“Zn ferrite nanoparticles in aqueous medium. Journal of Alloys and Compounds, 2015, 644, 774-782.	5.5	22
27	Superparamagnetism in Bi0.95Mn0.05FeO3 â€“ Ni0.5Zn0.5Fe2O4 multiferroic nanocomposites. Physica B: Condensed Matter, 2019, 571, 5-9.	2.7	18
28	Design aspects in processing of Ni-Zn ferrites for high frequency applications. Journal of Materials Science Letters, 2003, 22, 1607-1608.	0.5	17
29	Diffuse Dielectric Anomalies in (x).Bi0.95Mn0.05FeO3â€“(1â^'x).Ni0.5Zn0.5Fe2O4 multiferroic composites. Journal of Magnetism and Magnetic Materials, 2016, 404, 119-125.	2.3	17
30	Planar Hall resistance sensor for biochip application. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4053-4057.	1.8	16
31	Facile one-pot chemical approach for synthesis of monodisperse chain-like superparamagnetic maghemite (Î³-Fe2O3) nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 31, 43-46.	5.8	16
32	Direct current resistivity studies of various polycrystalline Niâ€“Znâ€“Sc ferrites. Journal of Applied Physics, 1996, 80, 6804-6808.	2.5	15
33	Effect of Nb2O5 additions on the power loss of NiZn ferrites. Journal of Materials Science, 2007, 42, 8433-8437.	3.7	15
34	Structural and magnetic studies on Mn-doped Niâ€“Zn ferrite nanoparticles. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	15
35	Multiferroic and magnetoelectric studies on BMFOâ€“NZFO nanocomposites. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	14
36	Template synthesis of NiFe nanowires using diblock copolymers. Materials Chemistry and Physics, 2008, 112, 1133-1136.	4.0	13

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37	Modified polyol route for synthesis of Fe3O4/Ag and Î±-Fe/Ag nanocomposite. Journal of Alloys and Compounds, 2014, 615, S308-S312.	5.5	13
38	Translocation of magnetic beads using patterned magnetic pathways for biosensing applications. Journal of Applied Physics, 2009, 105, 07B312.	2.5	12
39	Enhanced dielectric and magnetic properties in Mn-doped bismuth ferrite multiferroic nanoceramics. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	12
40	Unusual dielectric behaviour of Ni-Zn ferrites in the lower megahertz region (1?10 MHz) due to dimensional resonance. Journal of Materials Science Letters, 1996, 15, 781-783.	0.5	7
41	Densification, Grain Growth and Microstructure of Ni-Zn Ferrites. European Physical Journal Special Topics, 1997, 07, C1-241-C1-242.	0.2	7
42	Influence of silicon and cobalt substitutions on magnetostriction coefficient of cobalt ferrite. Hyperfine Interactions, 2008, 184, 179-184.	0.5	7
43	Enhanced magnetoelectric coupling in Bi0.95Mn0.05FeO3â€“Ni0.5Zn0.5Fe2O4 nanocomposites for spintronic applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
44	Mossbauer Spectroscopic Study of High Magnetostrictive Cobalt Chromium Ferrites for Automobile Torque Sensors. , 2014, 6, 1511-1515.		5
45	Template Synthesis of Cobalt Nanowires Using PS-b-PMMA Block Copolymer. IEEE Transactions on Magnetics, 2009, 45, 4063-4066.	2.1	4
46	MÃ¶ssbauer and magnetic study of silicon substituted cobalt ferrite. Hyperfine Interactions, 2008, 184, 51-55.	0.5	3
47	Excellent Low Loss Performance of Microwave Permeability in High Resistive CoFeHfO Films by Thermal Annealing. IEEE Transactions on Magnetics, 2008, 44, 3115-3118.	2.1	3
48	Cation Distribution of Cobalt-manganese Ferrite for Torque Sensor Applications. Materials Today: Proceedings, 2015, 2, 2491-2495.	1.8	3
49	Preparation, characterization and PTCR behavior of calcium barium niobate ferroelectric ceramics. AIP Conference Proceedings, 2018, , .	0.4	2
50	Fabrication of Nanowire Array Templates Using Diblock Polymer. Sensor Letters, 2007, 5, 39-41.	0.4	2
51	Dimensional Effects Resulting from High Dielectric Constants in NiZnSc-Ferrites. Journal of the Magnetics Society of Japan, 1998, 22, S1_305-307.	0.4	1
52	Etching Effect on Exchange Anisotropy in NiFe/Cu/NiFe/IrMn Spin-valve Structure for an Array of PHR Sensor Element. , 2007, , .		1
53	Fabrication of Nanowire Arrays Using Diblock Copolymer. , 2007, , .		1
54	Influence of silicon and cobalt substitutions on magnetostriction coefficient of cobalt ferrite. , 2008, , 593-598.		1

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55	Influence of Sintering Conditions on the Microstructural and Electrical Properties of NiZn-Ferrites. Journal of the Magnetics Society of Japan, 1998, 22, S1_83-85.	0.4	0
56	Depth sensitive exchange coupling in top and bottom pinned spin valve structures. Physica Status Solidi (B): Basic Research, 2007, 244, 4464-4469.	1.5	0
57	Enhanced Strain Derivative of Mnâˆ•Si Substituted Cobalt Ferrite. AIP Conference Proceedings, 2008, , .	0.4	0
58	Low temperature chemical synthesis of ferrite nanoparticles. , 2012, , .		0
59	Structural and electrical properties of Nd³⁺ doped ferroelectric barium sodium niobate ceramics. Ferroelectrics, 2021, 572, 158-163.	0.6	0
60	Synthesis, structural and microstructural properties of CBN ferroelectric ceramics. Ferroelectrics, 2021, 573, 154-165.	0.6	0
61	Electric and Magnetic Studies on Copper/Cobalt Substituted Ni-Zn Ferrites. , 2005, , .		0