

Subhash Thota

List of Publications by Year in descending order

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84
papers

1,738
citations

279798

23
h-index

302126

39
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86
all docs

86
docs citations

86
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of the magnetic properties of bulk and nanocrystalline Co_3O_4 . Journal of Physics Condensed Matter, 2008, 20, 015218.	1.8	159
2	Sol-gel synthesis and anomalous magnetic behaviour of NiO nanoparticles. Journal of Physics and Chemistry of Solids, 2007, 68, 1951-1964.	4.0	156
3	Optical, electrical and magnetic properties of Co_3O_4 nanocrystallites obtained by thermal decomposition of sol-gel derived oxalates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 30-37.	3.5	123
4	On the sol-gel synthesis and thermal, structural, and magnetic studies of transition metal (Ni, Co.) Tj ETQq0 0 0 rrgBT /Overlock 10 Tf	1.8	117
5	Size-dependent shifts of the Néel temperature and optical band-gap in NiO nanoparticles. Journal of Applied Physics, 2013, 114, .	2.5	71
6	Sol-gel synthesis of highly luminescent magnesium oxide nanocrystallites. Journal of Luminescence, 2011, 131, 640-648.	3.1	54
7	Formation and magnetic behaviour of manganese oxide nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 167, 153-160.	3.5	50
8	Magnetic compensation, field-dependent magnetization reversal, and complex magnetic ordering in $\text{Co}_2\text{Mn}_2\text{Zr}$. Physical Review B, 2015, 92, .	3.2	46
9	Size-dependent structural, magnetic, and optical properties of MnCo_2O_4 nanocrystallites. Journal of Applied Physics, 2017, 121, .	2.5	45
10	Magnetocaloric effect and improved relative cooling power in $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3)$ superlattices. Journal of Physics Condensed Matter, 2011, 23, 052201.	1.8	38
11	Anisotropic magnetocaloric effect in all-ferromagnetic $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3)$ superlattices. Applied Physics Letters, 2010, 97, .	3.3	34
12	Co-existence of ferrimagnetism and spin-glass state in the spinel Co_2SnO_4 . Journal of Applied Physics, 2013, 113, .	2.5	31
13	On the nature of magnetic state in the spinel Co_2SnO_4 . Journal of Physics Condensed Matter, 2015, 27, 166001.	1.8	31
14	Effects of Cu doping on the electronic structure and magnetic properties of MnCo_2O_4 nanostructures. Journal of Physics Condensed Matter, 2017, 29, 425803.	1.8	31
15	Preparation, Microstructure and Optical Absorption Behaviour of NiO Thin Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 4111-4115.	0.9	30
16	Magnetic transitions in Mn_3O_4 and an anomaly at 38 K in magnetization and specific heat. Physical Review B, 2011, 83, .	3.2	30
17	Neutron diffraction study of the inverse spinels $\text{Co}_2\text{Mn}_2\text{Zr}$ and $\text{Co}_2\text{Mn}_2\text{Zr}$. Physical Review B, 2017, 96, .	3.2	30
18	Cluster Glass Behavior in Orthorhombic SmFeO_3 Perovskite: Interplay between Spin Ordering and Lattice Dynamics. Chemistry of Materials, 2020, 32, 1250-1260.	6.7	27

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19	Synthesis, structure, and magnetic behavior of nanoparticles of cubic ZnMnO ₃ . Applied Physics Letters, 2012, 100, 252407.	3.3	26
20	Low-temperature anomalous magnetic behavior of Co ₂ TiO ₄ and Co ₂ SnO ₄ . Journal of Applied Physics, 2016, 120, .	2.5	26
21	Modulation of Peptide Based Nano-Assemblies with Electric and Magnetic Fields. Scientific Reports, 2017, 7, 2726.	3.3	24
22	Dielectric and AC-conductivity studies of Dy ₂ O ₃ doped (K _{0.5} Na _{0.5})NbO ₃ ceramics. AIP Advances, 2014, 4, .	1.3	23
23	Spectroscopic studies of Co ₂ TiO ₄ and Co ₃ O ₄ two-phase composites. Physica Status Solidi (B): Basic Research, 2016, 253, 2270-2282.	1.5	23
24	Ferromagnetic ordering in pulsed laser deposited Zn _{1-x} Ni _x O/ZnO bilayer thin films. Thin Solid Films, 2008, 517, 750-754.	1.8	22
25	Magnetic ground state, field-induced transitions, electronic structure, and optical band gap of the frustrated antiferromagnet GeCo ₂ O ₄ . Physical Review B, 2019, 99, .	3.2	22
26	Antiferromagnetism, spin-glass state, H-T phase diagram, and inverse magnetocaloric effect in Co ₂ RuO ₄ . Journal of Physics Condensed Matter, 2020, 32, 485806.	1.8	22
27	Magnetic frustration and short-range ordering in cubic defect spinel MgMnO ₃ . Journal of Applied Physics, 2011, 110, .	2.5	20
28	Reentrant spin-glass behavior and bipolar exchange-bias effect in ϵ -Sn-substituted cobalt-orthotitanate. Journal of Applied Physics, 2016, 119, .	2.5	20
29	Magnetic ground state and exchange interactions in the Ising chain ferromagnet $\text{Co}_{1-x}\text{Nb}_x\text{O}_6$. Physical Review B, 2021, 103, .	3.2	18
30	Synthesis and magnetic properties of nanocrystals of cubic defect spinel MgMnO ₃ . Applied Physics Letters, 2010, 97, 112507.	3.3	17
31	Dielectric response and ac-conductivity studies of Gd ₂ O ₃ - contained K _{0.5} Na _{0.5} NbO ₃ piezoelectric ceramics. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3668-3675.	2.9	17
32	Role of dilution on the electronic structure and magnetic ordering of spinel cobaltites. Physical Review B, 2018, 98, .	3.2	17
33	Peculiarities of the temperature dependence of electron spin resonance and Raman studies of Zn _{1-x} Ni _x O/NiO two-phase nanocomposites. Journal of Applied Physics, 2016, 119, .	2.5	16
34	The dielectric behavior of Zn _{1-x} Ni _x O/NiO two-phase composites. Journal Physics D: Applied Physics, 2014, 47, 435305.	2.8	15
35	Effect of NiO substitution on the structural and dielectric behaviour of NaNbO ₃ . Journal of Applied Physics, 2018, 123, .	2.5	15
36	Low-temperature anomalous spin correlations and Kondo effect in ferromagnetic SrRuO ₃ /LaNiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ trilayers. Physical Review B, 2019, 99, .	3.2	14

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37	On the derivation of the magnetocaloric properties in ferrimagnetic spinel Mn ₃ O ₄ . Journal of Applied Physics, 2011, 109, .	2.5	12
38	Synthesis and Optical Characterization of Mg _{1-x} Ni _x O Nanostructures. ISRN Nanomaterials, 2012, 2012, 1-8.	0.7	12
39	The ac-magnetic susceptibility and dielectric response of complex spin ordering processes in Mn ₃ O ₄ . Journal of Applied Physics, 2014, 116, .	2.5	12
40	Solâ€“Gel Synthesis and Behaviour of Nickel Containing ZnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4073-4080.	0.9	11
41	Finite-size scaling and exchange-bias in SrRuO ₃ /LaNiO ₃ /SrRuO ₃ trilayers. Journal of Applied Physics, 2017, 122, .	2.5	11
42	The X-ray photoelectron spectroscopy and high-temperature structural studies of Zn _{1-\hat{x}} Ni _x O/NiO two-phase composites. Physica Status Solidi (B): Basic Research, 2015, 252, 2323-2329.	1.5	10
43	Localized Charge Carrier Transport Properties of Zn _{1-\hat{x}} Ni _x O/NiO Two-Phase Composites. Journal of Electronic Materials, 2016, 45, 2059-2065.	2.2	10
44	Structural and magnetic properties of La _{0.7} Sr _{0.3} MnO ₃ /LaCoO ₃ heterostructures. Applied Physics Letters, 2018, 113, .	3.3	10
45	Cationic distribution, exchange interactions, and relaxation dynamics in Zn-diluted MnCo ₂ O ₄ nanostructures. Journal of Applied Physics, 2019, 125, .	2.5	10
46	Structural and dielectric studies of Co doped MgTiO ₃ thin films fabricated by RF magnetron sputtering. AIP Advances, 2014, 4, .	1.3	9
47	Formation mechanism, optical and magneto-dielectric studies of new cubic spinel MgMnO ₃ . AIP Advances, 2012, 2, .	1.3	8
48	Ion-induced secondary electron emission, optical and hydration resistant behavior of MgO, Mgâ€“Moâ€“O and Mgâ€“Ceâ€“O thin films. Thin Solid Films, 2014, 556, 260-269.	1.8	8
49	Cubic phase stability, optical and magnetic properties of Cu-stabilized zirconia nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 225304.	2.8	8
50	Interfacial magnetism in La _{0.7} Sr _{0.3} MnO ₃ /LaNiO ₃ ultrathin superlattices. Journal Physics D: Applied Physics, 2018, 51, 325001.	2.8	8
51	Effects of radiative local heating on metal solidification during selective laser melting for additive manufacturing. Applied Surface Science, 2019, 496, 143594.	6.1	8
52	Electronic structure and magnetic exchange interactions in Zn diluted CuFe ₂ O ₄ magneto-ceramics. Journal of Applied Physics, 2020, 128, .	2.5	8
53	Neutron diffraction evidence for local spin canting, weak Jahnâ€“Teller distortion, and magnetic compensation in Ti _{1-\hat{x}} Mn _{\hat{x}} Co ₂ O ₄ spinel. Journal of Physics Condensed Matter, 2020, 32, 245801.	1.8	8
54	Solâ€“gel synthesis and optical behavior of Mgâ€“Ceâ€“O nano-crystallites. Journal of Sol-Gel Science and Technology, 2013, 68, 46-53.	2.4	7

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55	Phonon dynamics and magnetic exchange interactions in GeCo_2O_4 spinel with pyrochlore lattice. <i>Physical Review B</i> , 2021, 104, .	3.2	7
56	Memory Effects and Relaxation Dynamics of MnCo_2O_4 Nanocrystallites. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1020-1023.	2.1	6
57	Dielectric properties of $(1-x)\text{KNbO}_3-x\text{NiO}$ two-phase composites. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415305.	2.8	6
58	Elastic strain control of electronic structure, and magnetic properties of $[\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3/\text{SrTiO}_3]_{15}$ superlattices. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	6
59	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNb_2O_6 . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 345801.	1.8	6
60	Determination of the tricritical point, H - T phase diagram and exchange interactions in the antiferromagnet MnTa_2O_6 . <i>Journal of Physics Condensed Matter</i> , 2022, 34, 155801.	1.8	6
61	Phonon Dynamics in Anisotropic Dilute $\text{CuAl}_{1-x}\text{Fe}_x\text{O}_2$ Delafossite Alloys by a Weighted Dynamical Matrix Approach. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30604-30612.	3.1	5
62	Dynamical response of localized electron hopping and dipole relaxation in $\text{Cu}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ magnetoceramics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 425303.	2.8	5
63	Magnetic exchange interactions and dielectric studies of $\text{Zn}_{1-x}\text{Ni}_x\text{O}$ composites. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 325002.	2.8	4
64	Magnetic exchange interactions and band gap bowing in $\text{Ni}_x\text{Mg}_{1-x}\text{O}$ (0.0 $\leq x \leq 1.0$): A GGA+U density functional study. <i>Journal of Applied Physics</i> , 2019, 126, 233904.	2.5	4
65	Thermal hysteresis and vibrational excitations in NiO containing NaNbO_3 . <i>Journal Physics D: Applied Physics</i> , 2019, 52, 115301.	2.8	4
66	Tailoring the electronic structure and magnetic properties of pyrochlore $\text{Co}_2\text{Ti}_{1-x}\text{Ge}_x\text{O}_4$: a GGA + U ab initio study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 145504.	1.8	4
67	Antiferromagnetic short-range order and cluster spin-glass state in diluted spinel ZnTiCoO_4 . <i>Journal of Physics Condensed Matter</i> , 2022, , .	1.8	4
68	Anisotropic Ferromagnetic Organic Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8511-8518.	3.1	4
69	The role of surface effects on the optical behavior of nanocrystalline NiO . <i>AIP Conference Proceedings</i> , 2013, , .	0.4	3
70	Nature of Magnetic Ordering in Cobalt-Based Spinel. , 2017, , .		3
71	Nature of magnetic ordering in nanocomposites of $\text{Zn}_{1-x}\text{Ni}_x\text{O}$ and NiO . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 46-52.	2.7	3
72	Role of phase transition in the dielectric and magnetic properties of Na containing NiO . <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 154-164.	4.0	3

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73	Identification of a Fe-Dependent Optical Mode in $\text{CuAl}_{1-x}\text{Fe}_x\text{O}_2$. Journal of Physical Chemistry C, 2021, 125, 3577-3583.	3.1	3
74	Magnetization reversal, field-induced transitions and H-T phase diagram of $\text{Y}_{1-x}\text{Ce}_x\text{CrO}_3$. Journal of Physics Condensed Matter, 2022, 34, 065801.	1.8	3
75	Effect of Ce substitution on the local magnetic ordering and phonon instabilities in antiferromagnetic DyCrO_3 perovskites. Journal of Physics Condensed Matter, 2022, 34, 345803.	1.8	3
76	Structural and dielectric properties of the fluorite-type $\text{LaCe}_{1-x}\text{O}_{2+x}$ ceramics. Journal Physics D: Applied Physics, 2017, 50, 495601.	2.8	2
77	Substrate orientation dependent characteristics of half-metallic and metallic superlattices $[\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{LaNiO}_3]_{10}$. Journal of Applied Physics, 2022, 131, 125305.	2.5	2
78	Phase evaluation and optical studies of cubic $\text{Mn}_x\text{Zr}_{1-x}\text{O}_2$ and $\text{Co}_y\text{Zr}_{1-y}\text{O}_2$ nanocrystals. , 2013, , .		1
79	Growth mechanism and electron spin resonance studies of $\text{Zn}_{1-x}\text{Ni}_x\text{O}/\text{NiO}$ two-phase nanocomposite. , 2014, , .		1
80	Magnetic phase diagram of $\text{Co}(\text{Cr}_{1-x}\text{Al}_x)_2\text{O}_4$ ($x=0.0$ to 1.0). Journal of Applied Physics, 2017, 122, 073908.	2.4	1
81	Strong correlation between structure and magnetic ordering in tetragonally distorted off-stoichiometric spinels $\text{Mn}_{1.15}\text{O}_4$ and $\text{Mn}_{1.15}\text{O}_6$. Physical Review Materials, 2022, 6, .	2.4	1
82	Optical and magnetic studies of $\text{Zn}_{1-2y}\text{Ni}_y\text{Co}_y\text{O}$ ($y=0.05$) degenerate semi-magnetic semiconductor. , 2012, , .		0
83	Dielectric spectroscopy of Dy_2O_3 doped $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ piezoelectric ceramics. , 2014, , .		0
84	The role of epitaxial strain on the electronic and magnetic structure of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{LaCoO}_3$ bilayers. AIP Advances, 2021, 11, 125115.	1.3	0