

Ram Rai

List of Publications by Year in descending order

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35
papers

1,901
citations

516561

16
h-index

395590

33
g-index

38
all docs

38
docs citations

38
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoconductivity in BiFeO ₃ thin films. Applied Physics Letters, 2008, 92, .	1.5	447
2	Optical band gap of BiFeO ₃ grown by molecular-beam epitaxy. Applied Physics Letters, 2008, 92, .	1.5	345
3	Linear and nonlinear optical properties of BiFeO ₃ . Applied Physics Letters, 2008, 92, .	1.5	213
4	Analysis of the Urbach tails in absorption spectra of undoped ZnO thin films. Journal of Applied Physics, 2013, 113, .	1.1	213
5	Optical properties and magnetochromism in multiferroic BiFeO_3 . Physical Review B, 2009, 79, .	1.1	149
6	Magnon sidebands and spin-charge coupling in bismuth ferrite probed by nonlinear optical spectroscopy. Physical Review B, 2009, 79, .	1.1	82
7	Optical and electronic properties of NiFe ₂ O ₄ and CoFe ₂ O ₄ thin films. Applied Physics A: Materials Science and Processing, 2012, 106, 207-211.	1.1	75
8	Elevated temperature dependence of energy band gap of ZnO thin films grown by e-beam deposition. Journal of Applied Physics, 2012, 111, .	1.1	46
9	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO ₃ . Applied Physics Letters, 2009, 94, 161905.	1.5	43
10	Optical Properties and Electronic Structure of Spinel ZnRh ₂ O ₄ . Chemistry of Materials, 2006, 18, 2696-2700.	3.2	37
11	Optical properties and magnetic-field-induced phase transitions in the ferroelectric state of Ni ₃ V ₂ O ₈ : Experiments and first-principles calculations. Physical Review B, 2006, 74, .	1.1	31
12	Field-tuned collapse of an orbitally ordered and spin-polarized state: Colossal magnetoresistance in the bilayered ruthenate Ca ₃ Ru ₂ O ₇ . Physical Review B, 2004, 69, .	1.1	29
13	Spin-charge coupling and the high-energy magnetodielectric effect in hexagonal HoMnO ₃ . Physical Review B, 2007, 75, .	1.1	28
14	Spin-charge-orbital coupling in multiferroic LuFe ₂ O ₄ thin films. Applied Physics Letters, 2012, 100, .	1.5	25
15	Magnetodielectric effect in the $S=1/2$ quasi-two-dimensional antiferromagnet K ₂ V ₃ O ₈ . Physical Review B, 2006, 73, .	1.1	22
16	High-energy magnetodielectric effect in kagome staircase materials. Physical Review B, 2007, 76, .	1.1	19
17	Magneto-optical investigation of the field-induced spin-glass-insulator to ferromagnetic-metal transition in the bilayer manganite (La _{0.4} Pr _{0.6}) _{1.2} Sr _{1.8} Mn ₂ O ₇ . Physical Review B, 2006, 74, .	1.1	14
18	Dynamics of the electroreflective response of TaS ₃ . Physical Review B, 2004, 70, .	1.1	11

#	ARTICLE	IF	CITATIONS
19	Bis(di-2-pyridyl-methanediol)copper(ii) dihydrogentrifluoride: a structural and spectroscopic study of the H ₂ F ₃ â€“ anion in a complex salt. Dalton Transactions, 2007, , 5655.	1.6	9
20	Structural studies and physical properties of hexagonal-YbFeO ₃ thin films. AIP Advances, 2019, 9, 015019.	0.6	9
21	Crystal and magnetic structure of polar oxide HoCrWO ₆ . Journal of Magnetism and Magnetic Materials, 2020, 514, 167219.	1.0	9
22	Observation of 300K high energy magnetodielectric contrast in the bilayer manganite (La _{0.4} Pr _{0.6}) _{1.2} Sr _{1.8} Mn ₂ O ₇ . Applied Physics Letters, 2007, 91, 021913.	1.5	8
23	Observation of bandgap renormalization in mesoscopic zinc oxide particles. Journal of Luminescence, 2020, 219, 116879.	1.5	6
24	Magnetoresistance, magnetic, and dielectric properties of LuFe ₂ O ₄ prepared by ebeam-assisted solid state reaction. Journal of Applied Physics, 2018, 124, .	1.1	5
25	Atomic-like emissions in UV region from hexagonal boron nitride crystal powders. Journal of Luminescence, 2021, 234, 117944.	1.5	5
26	Electro-optical effects and temperature-dependent electrical properties of LuFe ₂ O ₄ thin films. Thin Solid Films, 2014, 562, 490-494.	0.8	4
27	Magnetic and electrical transport properties of YbFe ₂ O ₄ . Physical Review B, 2019, 100, .	1.1	4
28	Electro-reflectance spectra of blue bronze. European Physical Journal B, 2003, 35, 233-238.	0.6	3
29	Signature of structural distortion in optical spectra of YFe ₂ O ₄ thin film. AIP Advances, 2016, 6, .	0.6	3
30	Magneto-optical Response of 3d-Decorated Polyoxomolybdates with μ -Keggin Structure. Inorganic Chemistry, 2014, 53, 2892-2898.	1.9	2
31	Electronic excitations and optical properties of YbFe ₂ O ₄ thin films. Thin Solid Films, 2019, 673, 57-61.	0.8	2
32	Destruction of an orbitally ordered and spin-polarized state: Colossal magnetoresistance in Ca ₃ Ru ₂ O ₇ . Journal of Electronic Materials, 2004, 33, 1303-1307.	1.0	0
33	Dynamics of the electro-optic response of \hat{A} charge-density-wave conductors. European Physical Journal Special Topics, 2005, 131, 135-138.	0.2	0
34	Magnetic properties and spin reorientation of hexagonal HoFeO ₃ thin films. Thin Solid Films, 2021, 723, 138596.	0.8	0
35	Search for narrow-band-noise modulations of the infrared transmission of blue bronze. European Physical Journal Special Topics, 2002, 12, 85-86.	0.2	0