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List of Publications by Year in descending order

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33
papers

569
citations

567281

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docs citations

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times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	Saturation magnetization and band gap tuning in BiFeO ₃ nanoparticles via co-substitution of Gd and Mn. Journal of Alloys and Compounds, 2016, 687, 701-706.	5.5	72
2	Size dependent magnetic and electrical properties of Ba-doped nanocrystalline BiFeO ₃ . AIP Advances, 2016, 6, .	1.3	49
3	Thickness dependent correlation between structural and optical properties of textured CdSe thin film. AIP Advances, 2019, 9, .	1.3	47
4	Evidence of superparamagnetism and improved electrical properties in Ba and Ta co-doped BiFeO ₃ ceramics. Journal of Alloys and Compounds, 2018, 735, 2584-2596.	5.5	46
5	Correlation of charge defects and morphology with magnetic and electrical properties of Sr and Ta codoped BiFeO ₃ . Journal of Alloys and Compounds, 2016, 688, 1186-1194.	5.5	35
6	The influence of cooling rate and SiO ₂ additions on the grain boundary structure of Mn-doped PTC thermistors. Journal of the European Ceramic Society, 2008, 28, 1845-1855.	5.7	31
7	Fabrication and positive temperature coefficient of resistivity properties of semiconducting ceramics based on the BaTiO ₃ -(Bi ^{1/2} K ^{1/2})TiO ₃ system. Journal of the European Ceramic Society, 2010, 30, 555-559.	5.7	30
8	Optical and structural characterization of ZnSe thin film fabricated by thermal vapour deposition technique. AIMS Materials Science, 2017, 4, 1095-1121.	1.4	29
9	The effect of SiO ₂ addition on the development of low- \angle grain boundaries in PTC thermistors. Journal of the European Ceramic Society, 2010, 30, 107-112.	5.7	22
10	Influence of Fe ²⁺ /Fe ³⁺ ions in tuning the optical band gap of SnO ₂ nanoparticles synthesized by TSP method: Surface morphology, structural and optical studies. Materials Science in Semiconductor Processing, 2019, 89, 223-233.	4.0	22
11	Structural transition and its effect in La, Zr co-substituted mono-domain BiFeO ₃ . Journal of Applied Physics, 2016, 120, 214106.	2.5	19
12	Structural, electrical, magnetic and magnetoelectric properties of (1- λ - γ) [Ba 0.6 λ - γ Ca x Sr 0.4 Zr 0.25 Ti 0.75 O 3] \hat{A} + \hat{A} (γ) [(Li 0.5 Fe 0.5) 0.4 Ni 0.18 Cu 0.12 Zn 0.3 Fe 2 O 4] composites. Journal of Alloys and Compounds, 2017, 698, 341-356.	5.5	19
13	An experimental insight of the multiferroic properties of magnetoelectrically coupled xLNCZFO+(1- λ - γ)BSTDO composites. Journal of Magnetism and Magnetic Materials, 2020, 502, 166449.	2.3	17
14	Enhance magnetoelectric coupling in xLi0.1Ni0.2Mn0.6Fe2.1O4-(1- λ - γ)BiFeO ₃ multiferroic composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 13033-13046.	2.2	16
15	Bi0.9Ho0.1FeO ₃ /TiO ₂ Composite Thin Films: Synthesis and Study of Optical, Electrical and Magnetic Properties. Scientific Reports, 2019, 9, 5205.	3.3	16
16	Modulation of structural, electrical, and magnetic features with dilute Zr substitution in Bi0.8La0.2Fe1-xZrxO ₃ system. Journal of Applied Physics, 2017, 122, .	2.5	12
17	Study of impedance and magnetoelectric property of lead-free xLCNZFO+(1-x)BGTDO multiferroic composites. Materials Chemistry and Physics, 2020, 255, 123575.	4.0	12
18	Modeling the resistance-temperature characteristic of a positive temperature coefficient thermistor, using experimentally determined permittivity data. Applied Physics Letters, 2007, 91, .	3.3	10

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19	The effect of SiO ₂ addition and measurement temperature on the high-field electrical behavior of BaTiO ₃ -based positive temperature coefficient thermistors. <i>Journal of Applied Physics</i> , 2008, 104, 103711.	2.5	9
20	Low temperature synthesis of \hat{I}^{\pm} - and \hat{I}^2 -phase Bi ₂ O ₃ thin film via B doping: tailoring optical band gap and n- to p-type Bi ₂ O ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15670-15682.	2.2	8
21	Effect of processing temperature on structural, optical and frequency dependent electrical responses of solid-state sintered bismuth sodium titanate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 274, 115474.	3.5	8
22	Modeling the effect of SiO ₂ additions and cooling rate on the electrical behavior of donor-acceptor codoped positive temperature coefficient thermistors. <i>Journal of Applied Physics</i> , 2008, 103, 123713.	2.5	7
23	Piezo and pyroelectricity in spark plasma sintered potassium sodium niobate (KNN) ceramics. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1428-1432.	2.9	5
24	Bulk response and grain boundary microelectrical activity of high TC BaTiO ₃ -(Bi _{1/2} K _{1/2})TiO ₃ -based positive temperature coefficient of resistance ceramics. <i>Journal of Materials Research</i> , 2013, 28, 2946-2959.	2.6	4
25	Amorphous interface oxide formed due to high amount of Sm doping (5-20 mol%) stabilizes finer size anatase and lowers indirect band gap. <i>Applied Surface Science</i> , 2020, 529, 146967.	6.1	4
26	Carrier transport and performance limit of semi-transparent photovoltaics: CuIn _{1-x} Ga _x Se ₂ as a case study. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	4
27	Vacancy-Induced Temperature-Dependent Thermal and Magnetic Properties of Holmium-Substituted Bismuth Ferrite Nanoparticle Compacts. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25886-25897.	8.0	4
28	Microstructural and electrical property evolution in an acceptor-dopant free positive temperature coefficient thermistor. <i>Materials Science in Semiconductor Processing</i> , 2012, 15, 47-51.	4.0	3
29	A dynamic optical constant extraction method for thin films with structural and optical-parametric justifications. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	3
30	Effective bandgap tuning with non-trivial modulation in room temperature magnetic and electrical responses of low level Ba-Cr co-substituted BiFeO ₃ nanoparticles. <i>Ceramics International</i> , 2022, 48, 19583-19596.	4.8	3
31	Crystal Size and Strain Estimation of 10% Cu doped ZnO Nanoparticles using X-ray Diffraction Data. , 2018, , .		2
32	Investigation of magnetic and ferroelectric properties along with the magnetoelectric coupling behavior for asserting a room temperature bi-phase composite as multiferroics. <i>Journal of Electroceramics</i> , 2020, 45, 56.	2.0	1
33	Silica Additions and the Performance of PTC Thermistors. <i>Advances in Science and Technology</i> , 2006, 45, 2362-2370.	0.2	0