

Guruprasad Mandal

List of Publications by Year in descending order

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papers

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docs citations

22
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641
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible range optical absorption, Urbach energy estimation and paramagnetic response in Cr-doped TiO ₂ nanocrystals derived by a sol-gel method. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12991-13004.	2.8	137
2	Defect engineered <i>d</i> ferromagnetism in tin-doped indium oxide nanostructures and nanocrystalline thin-films. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	51
3	Observation of Optical Band-Gap Narrowing and Enhanced Magnetic Moment in Co-Doped Sol-Gel-Derived Anatase TiO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26592-26604.	3.1	49
4	Defect mediated mechanism in undoped, Cu and Zn-doped TiO ₂ nanocrystals for tailoring the band gap and magnetic properties. <i>RSC Advances</i> , 2018, 8, 41994-42008.	3.6	47
5	Structural, optical and magnetic behavior of sol-gel derived Ni-doped dilute magnetic semiconductor TiO ₂ nanocrystals for advanced functional applications. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2519-2532.	2.8	37
6	Significant reduction in the optical band-gap and defect assisted magnetic response in Fe-doped anatase TiO ₂ nanocrystals as dilute magnetic semiconductors. <i>New Journal of Chemistry</i> , 2019, 43, 6048-6062.	2.8	32
7	Impact of Mn-dopant concentration in observing narrowing of band-gap, urbach tail and paramagnetism in anatase TiO ₂ nanocrystals. <i>New Journal of Chemistry</i> , 2019, 43, 14786-14799.	2.8	20
8	Observation of enhanced positive magnetoresistance at low temperatures in Ni _{0.8} Fe _{0.2} /C granular composites. <i>Journal of Alloys and Compounds</i> , 2010, 504, 110-114.	5.5	12
9	Pressure driven ferroelectric to paraelectric transition in Sr doped BaTiO ₃ . <i>Journal of Applied Physics</i> , 2015, 117, 054102.	2.5	12
10	Structural characteristics of HfO ₂ under extreme conditions. <i>Materials Chemistry and Physics</i> , 2020, 255, 123633.	4.0	12
11	Origin of large positive magnetoresistance in permalloy(Ni _{0.8} Fe _{0.2})-graphite granular composites. <i>Journal of Alloys and Compounds</i> , 2009, 484, 851-855.	5.5	10
12	Study of structural phase transition of HfO ₂ at high pressure. <i>Materials Today: Proceedings</i> , 2016, 3, 2997-3001.	1.8	7
13	Crystal structure of monoclinic hafnia (HfO ₂) revisited with synchrotron X-ray, neutron diffraction and first-principles calculations. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 1034-1042.	0.5	7
14	Measurement independent magnetocaloric effect in Mn-rich Mn-Fe-Ni-Sn(Sb/In) Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 92-99.	2.3	5
15	Hyperfine interaction study of pressure induced phase transformations in Hafnia. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 313, 683-687.	1.5	4
16	Role of particle size on the magnetoresistance of nano-crystalline graphite. <i>Carbon</i> , 2013, 57, 139-145.	10.3	3
17	The pressure induced structural phase transition of HfO ₂ . <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
18	Tantalum doping in HfO ₂ : orthorhombic phase formation at ambient conditions and change in path of pressure-induced structural evolution. <i>High Pressure Research</i> , 2020, 40, 434-443.	1.2	3

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19	Particle Size Dependence on Magnetic and Electrical Properties of (Ni _{0.8} Fe _{0.2}) ₁₀ C ₉₀ Granular Composites. Journal of Nanoscience and Nanotechnology, 2011, 11, 2570-2574.	0.9	2
20	Study of bulk Hafnium oxide (HfO ₂) under compression. AIP Conference Proceedings, 2018, , .	0.4	2
21	Raman spectroscopy and x-ray diffraction studies on 9R ⁺ BaRuO ₃ at high pressures: Indication of electronic topological transition. Materials Research Express, 2014, 1, 035701.	1.6	1
22	Size determination of nano-particles of HfO ₂ and its variation under high pressure. AIP Conference Proceedings, 2017, , .	0.4	0