

Goutam Dev Mukherjee

List of Publications by Year in descending order

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papers

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840776

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times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure driven phase transitions in honeycomb Fe ₄ Nb ₂ O ₉ : A possible re-entrant multiferroic behavior. Journal of Applied Physics, 2022, 131, .	2.5	1
2	Structural Metamorphosis and Band Dislocation of Trirutile NiTa ₂ O ₆ under Compression. Journal of Physical Chemistry C, 2022, 126, 4106-4117.	3.1	1
3	Pressure-induced emission enhancement and bandgap narrowing: Experimental investigations and first-principles theoretical simulations on the model halide perovskite $\text{Cs}_3\text{Mn}_3\text{Br}_9$. Physical Review B, 2022, 105, .	3.2	8
4	Pressure-Induced Emergence of Visible Luminescence in Lead Free Halide Perovskite Cs ₃ Bi ₂ Br ₉ : Effect of Structural Distortion. Journal of Physical Chemistry C, 2021, 125, 3432-3440.	3.1	12
5	Synthesis and compression study of orthorhombic Fe ₇ (C, Si) ₃ : a possible constituent of the Earth's core. High Pressure Research, 2021, 41, 290-305.	1.2	1
6	Anomalous structural behavior and antiferroelectricity in BiGdO ₃ : detailed temperature and high-pressure study. Journal of Physics Condensed Matter, 2021, 33, 495403.	1.8	2
7	Strain induced electronic transition in 1Tâ€²MoTe ₂ : high pressure Raman, x-ray diffraction, resistivity measurements and first principles theoretical studies. Electronic Structure, 2021, 3, 045002.	2.8	3
8	Existence of short-range magnetic correlation and observation of large magnetocaloric effect in BiGdO ₃ compound. Journal of Alloys and Compounds, 2020, 846, 156221.	5.5	7
9	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb ₂ O ₆ . Journal of Applied Physics, 2020, 128, .	2.5	9
10	Pressure induced lattice expansion and phonon softening in layered ReS ₂ . Journal of Applied Physics, 2020, 128, 085904.	2.5	15
11	High pressure anomalies in exfoliated MoSe ₂ : resonance Raman and x-ray diffraction studies. Materials Research Express, 2020, 7, 025902.	1.6	14
12	Thermal conductivity of dense hcp iron: Direct measurements using laser heated diamond anvil cell. Geoscience Frontiers, 2020, 11, 1755-1761.	8.4	20
13	High-pressure structural investigation on lead-free piezoelectric $0.5\text{Ba}(\text{Ti}_{0.8}\text{Zr}_{0.2})\text{O}_3 \sim 0.5\text{Ba}_{0.7}\text{Ca}_{0.3}\text{O}_3$. Journal of the American Ceramic Society, 2020, 103, 5259-5269.		
14	Structural anomalies in exfoliated WS ₂ : High pressure investigations on monolayer and nanocrystalline tungsten disulfide. Journal of Applied Physics, 2018, 123, .	2.5	15
15	Pressure induced anomalous magnetic behaviour in nanocrystalline YCrO ₃ at room temperature. Journal of Physics Condensed Matter, 2018, 30, 335401.	1.8	4
16	High pressure studies on nanocrystalline YCrO ₃ . AIP Conference Proceedings, 2018, , .	0.4	1
17	Pressure effects on model ferroelectric BiFeO_3 . Multiple phase transitions. Physical Review B, 2016, 93, .		
18	High Pressure Experimental Studies on CuO: Indication of Re-entrant Multiferroicity at Room Temperature. Scientific Reports, 2016, 6, 31610.	3.3	30

#	ARTICLE	IF	CITATIONS
19	Pressure driven ferroelectric to paraelectric transition in Sr doped BaTiO ₃ . Journal of Applied Physics, 2015, 117, 054102.	2.5	12
20	Spatially resolved analysis of short-range structure perturbations in a plastically bent molecular crystal. Nature Chemistry, 2015, 7, 65-72.	13.6	273
21	Reappearance of ferroelectric soft modes in the paraelectric phase of Pb _{1-x} CaxTiO ₃ at high pressures: Raman and x-ray diffraction studies. Journal of Physics Condensed Matter, 2012, 24, 115404.	1.8	9
22	High-pressure melting curve of helium and neon: Deviations from corresponding states theory. Physical Review B, 2010, 81, .	3.2	39
23	High-Pressure Melting Curve of Nitrogen and the Liquid-Liquid Phase Transition. Physical Review Letters, 2007, 99, 225701.	7.8	77