

Goutam Dev Mukherjee

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

642
citations

840776

11
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially resolved analysis of short-range structure perturbations in a plastically bent molecular crystal. <i>Nature Chemistry</i> , 2015, 7, 65-72.	13.6	273
2	High-Pressure Melting Curve of Nitrogen and the Liquid-Liquid Phase Transition. <i>Physical Review Letters</i> , 2007, 99, 225701.	7.8	77
3	High-pressure melting curve of helium and neon: Deviations from corresponding states theory. <i>Physical Review B</i> , 2010, 81, .	3.2	39
4	High Pressure Experimental Studies on CuO: Indication of Re-entrant Multiferroicity at Room Temperature. <i>Scientific Reports</i> , 2016, 6, 31610.	3.3	30
5	Thermal conductivity of dense hcp iron: Direct measurements using laser heated diamond anvil cell. <i>Geoscience Frontiers</i> , 2020, 11, 1755-1761.	8.4	20
6	Structural anomalies in exfoliated WS ₂ : High pressure investigations on monolayer and nanocrystalline tungsten disulfide. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	15
7	Pressure induced lattice expansion and phonon softening in layered ReS ₂ . <i>Journal of Applied Physics</i> , 2020, 128, 085904.	2.5	15
8	High pressure anomalies in exfoliated MoSe ₂ : resonance Raman and x-ray diffraction studies. <i>Materials Research Express</i> , 2020, 7, 025902.	1.6	14
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	Pressure effects on model ferroelectric BiFeO_3 . Multiple phase transitions. <i>Physical Review B</i> , 2016, 93, .	1.2	12
11	Pressure-Induced Emergence of Visible Luminescence in Lead Free Halide Perovskite Cs ₃ Bi ₂ Br ₉ : Effect of Structural Distortion. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3432-3440.	3.1	12
12	Reappearance of ferroelectric soft modes in the paraelectric phase of Pb _{1-x} CaxTiO ₃ at high pressures: Raman and x-ray diffraction studies. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 115404.	1.8	9
13	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb ₂ O ₆ . <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	9
14	High pressure structural investigation on lead free piezoelectric 0.5BaTi _{0.8} Zr _{0.2} O ₃ · 0.5Ba _{0.7} Cax _{0.3} O ₃ . <i>Journal of the American Ceramic Society</i> , 2020, 103, 5259-5269.	3.2	8
15	Pressure-induced emission enhancement and bandgap narrowing: Experimental investigations and first-principles theoretical simulations on the model halide perovskite Cs ₃ . <i>Physical Review B</i> , 2022, 105, .	3.2	8
16	Existence of short-range magnetic correlation and observation of large magnetocaloric effect in BiGdO ₃ compound. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156221.	5.5	7
17	Pressure induced anomalous magnetic behaviour in nanocrystalline YCrO ₃ at room temperature. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 335401.	1.8	4
18	Strain induced electronic transition in 1Tâ€²MoTe ₂ : high pressure Raman, x-ray diffraction, resistivity measurements and first principles theoretical studies. <i>Electronic Structure</i> , 2021, 3, 045002.	2.8	3

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19	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
20	High pressure studies on nanocrystalline YCrO ₃ . AIP Conference Proceedings, 2018, , .	0.4	1
21	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
22	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
23	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