

Karuna K Mishra

List of Publications by Year in descending order

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33
papers

465
citations

687363

13
h-index

713466

21
g-index

33
all docs

33
docs citations

33
times ranked

512
citing authors

#	ARTICLE	IF	CITATIONS
1	High Entropy Oxide Relaxor Ferroelectrics. ACS Applied Materials & Interfaces, 2022, 14, 11962-11970.	8.0	26
2	Studies of Optical, Dielectric, Ferroelectric, and Structural Phase Transitions in 0.9[KNbO ₃]-0.1[BaNi _{1/2} Nb _{1/2} O ₃]. Crystals, 2022, 12, 35.	2.2	2
3	Characterization of V ₂ O ₃ Nanoscale Thin Films Prepared by DC Magnetron Sputtering Technique. Coatings, 2022, 12, 649.	2.6	2
4	Structural phase transitions in the geometric ferroelectric LaTaO_4 . Physical Review B, 2021, 103, .	3.2	2
5	Raman Fingerprint of Pressure-Induced Phase Transition in SnO ₂ Nanoparticles: Gr ^{1/4} neisen Parameter and Thermal Expansion. Journal of Physical Chemistry C, 2021, 125, 23287-23298.	3.1	6
6	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS ₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	5.0	15
7	Lead palladium zirconate titanate: A room temperature nanoscale multiferroic thin film. Journal of Applied Physics, 2020, 127, 204104.	2.5	4
8	Phonon and magnetoelastic coupling in Al _{0.5} Ga _{0.5} FeO ₃ : Raman, magnetization and neutron diffraction studies. Physical Chemistry Chemical Physics, 2020, 22, 6906-6918.	2.8	6
9	Lead palladium titanate: A room temperature nanoscale multiferroic thin film. Scientific Reports, 2020, 10, 2991.	3.3	12
10	Progress in designing novel single-phase room temperature multiferroics. Ferroelectrics, 2020, 569, 227-239.	0.6	8
11	Ferroelectric ordering and energy storage capacity in lead-free Ba(Zr _{0.2} Ti _{0.8})O ₃ nanoscale film capacitors fabricated using pulsed laser deposition technique. Journal of Applied Physics, 2019, 126, .	2.5	4
12	Ferroelectric ordering and energy storage density of thin films capacitor by doping La ³⁺ and Sc ³⁺ on Pb(Zr _{0.53} Ti _{0.47})O ₃ using pulse laser deposition technique. Applied Physics Letters, 2019, 114, 223902.	3.3	14
13	Enhanced energy storage density in Sc ³⁺ substituted Pb(Zr _{0.53} Ti _{0.47})O ₃ nanoscale films by pulse laser deposition technique. Applied Surface Science, 2019, 490, 451-459.	6.1	28
14	Coupled phonons and magnetic orderings in GaFeO ₃ : Raman and magnetization studies. Journal of Applied Physics, 2019, 125, .	2.5	17
15	High pressure behavior of complex phosphate K ₂ Ce[PO ₄] ₂ : Gr ^{1/4} neisen parameter and anharmonicity properties. Journal of Solid State Chemistry, 2018, 258, 845-853.	2.9	5
16	High pressure spectroscopic studies of phase transition in VO ₂ . AIP Conference Proceedings, 2018, , .	0.4	1
17	New High Pressure Phases of Energetic Material TEX: Evidence from Raman Spectroscopy, X-ray Diffraction, and First-Principles Calculations. Journal of Physical Chemistry A, 2018, 122, 6236-6242.	2.5	13
18	Temperature dependent structural, vibrational and magnetic properties of K ₃ Gd ₅ (PO ₄) ₆ . Physical Chemistry Chemical Physics, 2017, 19, 6030-6041.	2.8	14

#	ARTICLE	IF	CITATIONS
19	Phase Transformation, Vibrational and Electronic Properties of $K_2Ce(PO_4)_2$: A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2017, 56, 3335-3348.	4.0	14
20	Studies of ferroelectric properties and leakage current behaviour of microwave sintered ferroelectric $Na_{0.5}Bi_{0.5}TiO_3$ ceramic. Ferroelectrics, 2017, 517, 25-33.	0.6	28
21	Structural and Thermal Properties of $BaTe_2O_6$: Combined Variable-Temperature Synchrotron X-ray Diffraction, Raman Spectroscopy, and ab Initio Calculations. Inorganic Chemistry, 2016, 55, 8994-9005.	4.0	15
22	Raman spectroscopic investigation of $H_3[Co(CN)_6]$: An anharmonicity study. AIP Conference Proceedings, 2016, , .	0.4	0
23	Study of Phase Transformation in $BaTe_2O_6$ by in Situ High-Pressure X-ray Diffraction, Raman Spectroscopy, and First-Principles Calculations. Inorganic Chemistry, 2016, 55, 227-238.	4.0	11
24	Soft modes and anharmonicity in $H_3[Co(CN)_6]$ Raman spectroscopy and first-principles calculations. Physical Review B, 2015, 92, .	3.2	17
25	Phase transition and enhanced magneto-dielectric response in $BiFeO_3$ - $DyMnO_3$ multiferroics. Journal of Applied Physics, 2015, 117, .	2.5	45
26	High pressure Raman spectroscopic studies of the relaxor ferroelectric $0.85Pb(Zn_{1/3}Nb_{2/3})O_3$ - $0.15PbTiO_3$. AIP Advances, 2015, 5, 077127.	1.3	1
27	Phase transition and magneto-electric coupling of $BiFeO_3$ - $YMnO_3$ multiferroic nanoceramics. Journal of Applied Physics, 2013, 114, .	2.5	31
28	Dielectric and polarized Raman spectroscopic studies on $0.85Pb(Zn_{1/3}Nb_{2/3})O_3$ - $0.15PbTiO_3$ single crystal. Journal of Applied Physics, 2012, 112, 073521.	2.5	20
29	Anomalous behavior of acoustic phonon mode and central peak in $Pb(Zn_{1/3}Nb_{2/3})_0.85Ti_0.15O_3$ single crystal studied using Brillouin scattering. Journal of Applied Physics, 2012, 112, 114109.	2.5	6
30	Magnetic ordering in La-substituted $BiFeO_3$ - $PbTiO_3$. , 2012, , .		0
31	Vibrational, magnetic, and dielectric behavior of La-substituted $BiFeO_3$ - $PbTiO_3$. Journal of Applied Physics, 2011, 110, .	2.5	69
32	Low-temperature Raman spectroscopic studies in $NaNbO_3$. Journal of Raman Spectroscopy, 2011, 42, 517-521.	2.5	27
33	x-T phase diagram of La-substituted $BiFeO_3$ - $PbTiO_3$. AIP Advances, 2011, 1, 032126.	1.3	2