

Mukul N Deo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spectroscopic studies of temperature induced phase transitions in metal-organic complex trans-PtCl ₂ (PEt ₃) ₂ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117628.	3.9	1
2	High pressure studies on β -cristobalite form of Al _{0.5} Ga _{0.5} PO ₄ : hydrostatic versus non-hydrostatic conditions. High Pressure Research, 2019, 39, 81-91.	1.2	2
3	Understanding Structural Variations in Elastic Organic Crystals by in Situ High-Pressure Fourier Transform Infrared Spectroscopy and Nanoindentation Study. Crystal Growth and Design, 2019, 19, 2114-2122.	3.0	9
4	High pressure structural investigations on hexagonal YInO ₃ . High Pressure Research, 2019, 39, 17-35.	1.2	6
5	Oriental Adaptations Leading to Plausible Phase Transitions in α -Leucine at Low Temperatures: Revealed by Infrared Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 561-570.	2.6	4
6	Phase transition in metal-organic complex trans-PtCl ₂ (PEt ₃) ₂ under pressure: insights into the molecular and crystal structure. CrystEngComm, 2018, 20, 3728-3740.	2.6	5
7	Low temperature IR spectroscopic study of torsional vibrations of taurine. AIP Conference Proceedings, 2018, , .	0.4	1
8	Perceptible isotopic effect in 3D-framework of β -glycine at low temperatures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 495-507.	3.9	5
9	Remarkable resilience of the formate cage in a multiferroic metal organic framework material: dimethyl ammonium manganese formate (DMAMnF). Dalton Transactions, 2018, 47, 12993-13005.	3.3	18
10	A synchrotron infrared absorption study of pressure induced polymerization of acrylamide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 45-51.	3.9	5
11	Time-resolved Raman spectroscopy of polystyrene under laser driven shock compression. Journal of Raman Spectroscopy, 2017, 48, 1007-1012.	2.5	9
12	In situ Raman spectroscopic studies of polyvinyl toluene under laser-driven shock compression and comparison with hydrostatic experiments. Journal of Raman Spectroscopy, 2017, 48, 1300-1306.	2.5	3
13	Comparative studies of Laser induced plasma in TEOS and MTMS based aerogels and solid quartz. MRS Advances, 2017, 2, 3531-3536.	0.9	2
14	Enhancement of keV X-rays from low-density cellulose triacetate (TAC) foam targets. Physics of Plasmas, 2017, 24, .	1.9	4
15	In situ high pressure study of an elastic crystal by FTIR spectroscopy. CrystEngComm, 2017, 19, 7083-7087.	2.6	9
16	Raman spectroscopy of laser shocked polystyrene. Journal of Raman Spectroscopy, 2017, 48, 458-464.	2.5	11
17	The effect of ZnO addition on thermo-physical and structural properties of 45S5 bioactive glass/glass-microspheres. AIP Conference Proceedings, 2016, , .	0.4	0
18	Pump probe based Raman spectroscopic studies of PTFE under laser driven shock compression. AIP Conference Proceedings, 2016, , .	0.4	3

#	ARTICLE	IF	CITATIONS
19	A temperature dependent infrared absorption study of strong hydrogen bonds in bis(glycinium)oxalate. AIP Conference Proceedings, 2016, , .	0.4	1
20	Hydrogen Bond Symmetrization in Glycinium Oxalate under Pressure. Journal of Physical Chemistry B, 2016, 120, 851-859.	2.6	37
21	Proton transfer aiding phase transitions in oxalic acid dihydrate under pressure. Physical Chemistry Chemical Physics, 2016, 18, 8065-8074.	2.8	35
22	The role of Jahn-Teller distortion in insulator to semiconductor phase transition in organic-inorganic hybrid compound (p-chloroanilinium) ₂ CuCl ₄ at high pressure. Physical Chemistry Chemical Physics, 2015, 17, 32204-32210.	2.8	11
23	Spectroscopic studies of glycinium oxalate under pressure. , 2014, , .		1
24	Hydroxycarbonated neodymium sesquioxide under pressure: An infrared study. , 2012, , .		0
25	Far Infrared Absorption Study of BiFeO ₃ and the Effects of Cobalt Doping. , 2011, , .		0
26	Vibrational analysis of Fourier transform spectrum of the $B^3\Sigma_u^- \rightarrow X^3\Sigma_g^-$ transition of $^{80}\text{Se}_2$ molecule. Pramana - Journal of Physics, 2011, 76, 591-601.	1.8	1
27	High-resolution FT spectrum of $A_2\Gamma - X_2\Gamma +$ band system of MgCl. Indian Journal of Physics, 2011, 85, 485-495.	1.8	0
28	Vacuum Ultraviolet Absorption Spectrum of Difluoromethane Reinvestigated. Spectroscopy Letters, 2009, 42, 219-225.	1.0	9
29	Vibrational analysis of Fourier transform spectrum of the $A_3\Gamma - X_1\Gamma +$ and $B_3\Gamma - X_1\Gamma +$ transitions of indium monobromide. Pramana - Journal of Physics, 2009, 73, 889-899.	1.8	0