

Nilesh P Salke

List of Publications by Year in descending order

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31
papers

572
citations

687220

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all docs

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31
times ranked

889
citing authors

#	ARTICLE	IF	CITATIONS
1	Kohn anomaly and elastic softening in body-centered cubic molybdenum at high pressure. <i>Physical Review B</i> , 2022, 105, .	1.1	1
2	Thermal conductivity of Fe-Si alloys and thermal stratification in Earth's core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	11
3	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. <i>Geoscience Frontiers</i> , 2021, 12, 983-989.	4.3	14
4	Transport properties of Fe-Ni-Si alloys at Earth's core conditions: Insight into the viability of thermal and compositional convection. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116614.	1.8	21
5	The effect of iron on the sound velocities of AlOOH up to 135 GPa. <i>Geoscience Frontiers</i> , 2021, 12, 937-946.	4.3	12
6	Tungsten Hexanitride with Single-Bonded Armchairlike Hexazine Structure at High Pressure. <i>Physical Review Letters</i> , 2021, 126, 065702.	2.9	52
7	X-ray diffraction and equation of state of the CaH room-temperature superconductor. <i>Journal of Chemical Physics</i> , 2021, 155, 114703.	1.2	13
8	Melting curve of vanadium up to 256 GPa: Consistency between experiments and theory. <i>Physical Review B</i> , 2020, 102, .	1.1	24
9	Prediction and Synthesis of Dysprosium Hydride Phases at High Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 5303-5312.	1.9	6
10	Pressure effect on Kohn anomaly and electronic topological transition in single-crystal tantalum. <i>Physical Review B</i> , 2019, 100, .	1.1	13
11	Synthesis of clathrate cerium superhydride CeH_9 at 80-100 GPa with atomic hydrogen sublattice. <i>Nature Communications</i> , 2019, 10, 4453.	5.8	117
12	Enhanced electron transport in rutile TiO_2 nanowires via H_2S -assisted incorporation of dissolved silicon for solar-driven water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 767-772.	10.8	12
13	Structural, vibrational, and electronic topological transitions of $\text{Bi}_{1.5}\text{Sb}_{0.5}\text{Te}_{1.8}\text{Se}_{1.2}$ under pressure. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	14
14	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound TaVO_5 . <i>Inorganic Chemistry</i> , 2018, 57, 6973-6980.	1.9	7
15	X-ray diffraction and Raman spectroscopic investigations on $\text{CaZrTi}_2\text{O}_7\text{Ti}_2\text{O}_7$ system: Delineation of phase fields consisting of potential ceramic host materials. <i>Journal of Nuclear Materials</i> , 2016, 475, 192-199.	1.3	43
16	Structural Stability and Anharmonicity of $\text{Pr}_2\text{Ti}_2\text{O}_7$: Raman Spectroscopic and XRD Studies. <i>Inorganic Chemistry</i> , 2016, 55, 11791-11800.	1.9	18
17	Raman spectroscopic investigation of CuGaTe_2 at high pressures. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
18	Raman spectroscopic investigation of $\text{H}_3[\text{Co}(\text{CN})_6]$: An anharmonicity study. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0

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19	Soft modes and anharmonicity in $H_3Co(CN)_6$: Raman spectroscopy and first-principles calculations. Physical Review B, 2015, 92, .	1.1	17
20	Raman and <i>ab initio</i> investigation of negative thermal expansion material TaVO ₅ : Insights into phase stability and anharmonicity. Journal of Applied Physics, 2015, 117, .	1.1	28
21	Raman spectroscopic studies of Pr ₂ Ti ₂ O ₇ at high pressures. AIP Conference Proceedings, 2015, , .	0.3	3
22	Structural and electrical properties of layered perovskite type Pr ₂ Ti ₂ O ₇ : experimental and theoretical investigations. Journal of Materials Chemistry C, 2015, 3, 4570-4584.	2.7	45
23	Raman spectroscopic studies of CuFeO ₂ at high pressures. Vibrational Spectroscopy, 2015, 81, 112-118.	1.2	35
24	High pressure Raman spectroscopic study of H ₃ Co(CN) ₆ . , 2014, , .		0
25	Phase transitions in delafossite CuLaO ₂ at high pressures. Journal of Applied Physics, 2014, 115, .	1.1	7
26	Vibrational properties and phonon anharmonicity in ZnS _{1-x} Se _x : Inelastic neutron scattering, Raman scattering, X-ray diffraction measurements and lattice dynamical studies. Physica B: Condensed Matter, 2014, 433, 149-156.	1.3	5
27	Raman Spectroscopic Investigation of Thorium Dioxide-Uranium Dioxide (ThO ₂ -UO ₂) Fuel Materials. Applied Spectroscopy, 2014, 68, 44-48.	1.2	38
28	Raman spectroscopic study of phase stability and anharmonicity in Bi ₁₂ TiO ₂₀ . Materials Chemistry and Physics, 2013, 139, 640-645.	2.0	9
29	Raman spectroscopic studies on TaVO ₅ . , 2013, , .		0
30	Anharmonicity of Raman modes of Bi ₁₂ SiO ₂₀ . , 2012, , .		1
31	Raman spectroscopic investigations on delafossite CuLaO ₂ at high pressures. Journal of Physics: Conference Series, 2012, 377, 012020.	0.3	4