

Nilesh P Salke

List of Publications by Year in descending order

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31
papers

572
citations

687220

13
h-index

610775

24
g-index

31
all docs

31
docs citations

31
times ranked

889
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of clathrate cerium superhydride CeH ₉ at 80-100 GPa with atomic hydrogen sublattice. Nature Communications, 2019, 10, 4453.	5.8	117
2	Tungsten Hexanitride with Single-Bonded Armchairlike Hexazine Structure at High Pressure. Physical Review Letters, 2021, 126, 065702.	2.9	52
3	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
4	X-ray diffraction and Raman spectroscopic investigations on CaZrTi ₂ O ₇ Ti ₂ O ₇ system: Delineation of phase fields consisting of potential ceramic host materials. Journal of Nuclear Materials, 2016, 475, 192-199.	1.3	43
5	Raman Spectroscopic Investigation of Thorium Dioxide-Uranium Dioxide (ThO ₂ -UO ₂) Fuel Materials. Applied Spectroscopy, 2014, 68, 44-48.	1.2	38
6	Raman spectroscopic studies of CuFeO ₂ at high pressures. Vibrational Spectroscopy, 2015, 81, 112-118.	1.2	35
7	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
8	Melting curve of vanadium up to 256 GPa: Consistency between experiments and theory. Physical Review B, 2020, 102, .	1.1	24
9	Transport properties of Fe-Ni-Si alloys at Earth's core conditions: Insight into the viability of thermal and compositional convection. Earth and Planetary Science Letters, 2021, 553, 116614.	1.8	21
10	Structural Stability and Anharmonicity of Pr ₂ Ti ₂ O ₇ : Raman Spectroscopic and XRD Studies. Inorganic Chemistry, 2016, 55, 11791-11800.	1.9	18
11	Soft modes and anharmonicity in H ₃ Raman spectroscopy and first-principles calculations. Physical Review B, 2015, 92, .	1.1	17
12	Structural, vibrational, and electronic topological transitions of Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} under pressure. Journal of Applied Physics, 2018, 123, .	1.1	14
13	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. Geoscience Frontiers, 2021, 12, 983-989.	4.3	14
14	Pressure effect on Kohn anomaly and electronic topological transition in single-crystal tantalum. Physical Review B, 2019, 100, .	1.1	13
15	X-ray diffraction and equation of state of the C ₆ H room-temperature superconductor. Journal of Chemical Physics, 2021, 155, 114703.	1.2	13
16	Enhanced electron transport in rutile TiO ₂ nanowires via H ₂ S-assisted incorporation of dissolved silicon for solar-driven water splitting. Applied Catalysis B: Environmental, 2019, 244, 767-772.	10.8	12
17	The effect of iron on the sound velocities of $\hat{\gamma}$ -AlOOH up to 135 GPa. Geoscience Frontiers, 2021, 12, 937-946.	4.3	12
18	Thermal conductivity of Fe-Si alloys and thermal stratification in Earth's core. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11

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19	Raman spectroscopic study of phase stability and anharmonicity in Bi ₁₂ TiO ₂₀ . Materials Chemistry and Physics, 2013, 139, 640-645.	2.0	9
20	Phase transitions in delafossite CuLaO ₂ at high pressures. Journal of Applied Physics, 2014, 115, .	1.1	7
21	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound TaVO ₅ . Inorganic Chemistry, 2018, 57, 6973-6980.	1.9	7
22	Prediction and Synthesis of Dysprosium Hydride Phases at High Pressure. Inorganic Chemistry, 2020, 59, 5303-5312.	1.9	6
23	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
24	Raman spectroscopic investigations on delafossite CuLaO ₂ at high pressures. Journal of Physics: Conference Series, 2012, 377, 012020.	0.3	4
25	Raman spectroscopic studies of Pr ₂ Ti ₂ O ₇ at high pressures. AIP Conference Proceedings, 2015, , .	0.3	3
26	Raman spectroscopic investigation of CuGaTe ₂ at high pressures. AIP Conference Proceedings, 2016, , .	0.3	2
27	Anharmonicity of Raman modes of Bi ₁₂ SiO ₂₀ . , 2012, , .		1
28	Kohn anomaly and elastic softening in body-centered cubic molybdenum at high pressure. Physical Review B, 2022, 105, .	1.1	1
29	Raman spectroscopic studies on TaVO ₅ . , 2013, , .		0
30	High pressure Raman spectroscopic study of H ₃ Co(CN) ₆ . , 2014, , .		0
31	Raman spectroscopic investigation of H ₃ [Co(CN) ₆]: An anharmonicity study. AIP Conference Proceedings, 2016, , .	0.3	0