

Pradeep Kumar

List of Publications by Year in descending order

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47
papers

580
citations

623734

14
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677142

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all docs

47
docs citations

47
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and NO ₂ gas sensing mechanisms of vertically aligned 2D SnS ₂ flakes by CVD: Experimental and DFT studies. Sensors and Actuators B: Chemical, 2022, 353, 131078.	7.8	25
2	Coupled excitonic quasiparticle-electron-phonon and interlayer coupling in vertically and horizontally aligned MoS ₂ . Journal of Materials Chemistry C, 2022, 10, 5684-5692.	5.5	4
3	Electron-phonon coupling, thermal expansion coefficient, resonance effect, and phonon dynamics in high-quality CVD-grown monolayer and bilayer MoSe ₂ . Physical Review B, 2022, 105, .	3.2	5
4	Platinum nanoparticle sensitized plasmonic-enhanced broad spectral photodetection in large area vertical-aligned MoS ₂ flakes. Nanotechnology, 2022, 33, 255702.	2.6	15
5	Low-voltage, self-powered and broadband photodetector with Ohmic, transparent and cost-effective AZO electrodes on vertical aligned MoS ₂ flakes. Surfaces and Interfaces, 2022, 30, 101813.	3.0	6
6	Davydov Splitting, Resonance Effect and Phonon Dynamics in Chemical Vapor Deposition Grown Layered MoS ₂ . Nanotechnology, 2021, 32, 285705.	2.6	12
7	Fractional spin fluctuations and quantum liquid signature in Gd ₂ . Physical Review B, 2021, 104, .		
8	Anisotropic electron-phonon coupling in layered MoS ₂ . Journal of Physics Condensed Matter, 2020, 32, 415702.	1.8	6
9	Kitaev magnetism and fractionalized excitations in double perovskite Sr ₂ Zn ₂ O ₆ . Physical Review Research, 2020, 2, .	3.6	15
10	Kramers doublets, phonons, crystal-field excitations, and their coupling in Nd ₂ Zn ₂ O ₆ . Physical Review Research, 2020, 2, .	3.6	9
11	Coupling of lattice, spin, and intraconfigurational excitations of Eu ₂ O ₆ . Physical Review Research, 2020, 2, .	3.6	11
12	Anomalous phonon renormalization in single crystal of silicon. AIP Conference Proceedings, 2020, , .	0.4	1
13	Correlated paramagnetism and interplay of magnetic and phononic degrees of freedom in 3d-5d coupled La ₂ Cu ₂ O ₆ . Journal of Physics Condensed Matter, 2019, 31, 485803.	1.8	5
14	Structural, dielectric, and piezoelectric properties of lead-free (1-x)K _{1/2} Na _{1/2} NbO ₃ -xCa(Zn _{1/3} Ta _{2/3})O ₃ perovskite solid solution. Journal of Materials Science: Materials in Electronics, 2019, 30, 15084-15096.	2.2	5
15	Broken translational and rotational symmetries in LiMn _{1.5} Ni _{0.5} O ₄ spinel. Journal of Physics Condensed Matter, 2019, 31, 395701.	1.8	4
16	Thermal expansion coefficient and phonon dynamics in coexisting allotropes of monolayer WS ₂ probed by Raman scattering. Journal of Physics Condensed Matter, 2019, 31, 505403.	1.8	15
17	Orbital-phonon coupling in Ir ₅ d ₄ double perovskite Ba ₂ YrO ₆ . Journal of Physics Condensed Matter, 2019, 31, 065603.	1.8	8
18	LiSnZr(PO ₄) ₃ : NASICON-type solid electrolyte with excellent room temperature Li ⁺ conductivity. Journal of Alloys and Compounds, 2019, 777, 602-611.	5.5	21

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19	A comparative study of thermoelectric properties of CuGaTe ₂ by using PBE and MBJ potentials. AIP Conference Proceedings, 2018, , .	0.4	3
20	Phonon dynamics in LiZr _{1.9} Al _{0.1} (PO ₄) ₃ : A temperature dependent Raman study. AIP Conference Proceedings, 2018, , .	0.4	0
21	Ionic conduction and vibrational characteristics of Al ³⁺ modified monoclinic LiZr ₂ (PO ₄) ₃ . Electrochimica Acta, 2018, 263, 533-543.	5.2	25
22	Tuning the thermoelectric properties of YNiBi half-Heusler alloy. Materials Research Express, 2018, 5, 046528.	1.6	5
23	Competing thermal expansion mismatch and lattice strain engineered growth of crack free WS ₂ in-plane heterostructures. Journal of Materials Chemistry C, 2018, 6, 11407-11415.	5.5	19
24	Density functional study of ACa ₂ Fe ₄ As ₄ F ₂ (A = K, Rb): Electronic structure, unconventional superconductors. AIP Conference Proceedings, 2018, , .	0.4	2
25	(Pb ₁ -Bi)(Ti ₁ -Mn)O ₃ : Competing mechanism of tetragonal-cubic phase on A/B site modifications. Journal of Alloys and Compounds, 2018, 765, 278-286.	5.5	9
26	Doping effect on the thermoelectric properties of chalcopyrite CuGaTe ₂ . AIP Conference Proceedings, 2018, , .	0.4	0
27	Unconventional iron-based superconductor CsCa ₂ Fe ₄ As ₄ F ₂ : A first-principle study. AIP Conference Proceedings, 2018, , .	0.4	3
28	Structural and electronic properties of LaPd ₂ As ₂ superconductor: First-principle calculations. AIP Conference Proceedings, 2017, , .	0.4	2
29	Investigation of electronic, magnetic and transport properties of full-Heusler alloys Fe ₂ TiX (X = As) Tj ETQq1 1 0.784314 rgBT /Overl	3.9	6
30	Quaternary semiconductors Cu ₂ MgSnS ₄ and Cu ₂ MgSnSe ₄ as potential thermoelectric materials. Journal of Physics Communications, 2017, 1, 045014.	1.2	18
31	Understanding the transport properties of YNiBi half-Heusler alloy: An Ab-initio study. AIP Conference Proceedings, 2017, , .	0.4	0
32	Iron isotope effect in SmFeAsO _{0.65} and SmFeAsO _{0.77} H _{0.12} superconductors: A Raman study. AIP Advances, 2016, 6, 105310.	1.3	4
33	Evidence for phase transitions and pseudospin phonon coupling in K _{0.9} (NH ₄) _{0.1} H ₂ AsO ₄ . AIP Advances, 2015, 5, 037135.	1.3	6
34	Raman evidence for coupling of superconducting quasi-particles with a phonon and crystal field excitation in superconductor Ce _{0.6} Y _{0.4} FeAsO _{0.8} F _{0.2} . , 2014, , .		1
35	Temperature dependent magnetic, dielectric and Raman studies of partially disordered La ₂ NiMnO ₆ . Solid State Communications, 2014, 184, 47-51.	1.9	45
36	Phonon anomalies, orbital-ordering and electronic raman scattering in iron-pnictide Ca(Fe _{0.97} Co _{0.03}) ₂ As ₂ : temperature-dependent Raman study. Journal of Physics Condensed Matter, 2014, 26, 305403.	1.8	10

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37	Coupled phonons, magnetic excitations, and ferroelectricity in AlFeO_3 : Raman and first-principles studies. Physical Review B, 2012, 85, .	3.2	31
38	Superconducting fluctuations and anomalous phonon renormalization much above superconducting transition temperature in $\text{Ca}_4\text{Al}_2\text{O}_5.7\text{Fe}_2\text{As}_2$. Applied Physics Letters, 2012, 100, 222602.	3.3	11
39	Raman signatures of pressure induced electronic topological and structural transitions in Bi_2Te_3 . Solid State Communications, 2012, 152, 284-287.	1.9	29
40	Raman evidence for the superconducting gap and spin-phonon coupling in the superconductor $\text{Ca}(\text{Fe}_{0.95}\text{Co}_{0.05})_2\text{As}_2$. Journal of Physics Condensed Matter, 2011, 23, 255403.	1.8	9
41	Theoretical Studies of Host-Guest Interaction in Gas Hydrates. Journal of Physical Chemistry A, 2011, 115, 14276-14281.	2.5	56
42	Potential energy curves for neutral and multiply charged carbon monoxide. Pramana - Journal of Physics, 2010, 74, 49-55.	1.8	13
43	Temperature-dependent infrared reflectivity studies of multiferroic TbMnO_3 : Evidence for spin-phonon coupling. Pramana - Journal of Physics, 2010, 74, 281-291.	1.8	10
44	Anomalous Raman scattering from phonons and electrons of superconducting. Solid State Communications, 2010, 150, 557-560.	1.9	53
45	First-principles analysis of electron correlation, spin ordering and phonons in the normal state of FeSe_{1-x} . Journal of Physics Condensed Matter, 2010, 22, 385701.	1.8	16
46	Temperature-dependent Raman study of a $\text{CeFeAsO}_{0.9}\text{F}_{0.1}$ superconductor: crystal field excitations, phonons and their coupling. Journal of Physics Condensed Matter, 2010, 22, 255402.	1.8	9
47	Raman evidence for orbiton-mediated multiphonon scattering in multiferroic TbMnO_3 . Journal of Physics Condensed Matter, 2010, 22, 115403.	1.8	16