

A K Sood

List of Publications by Year in descending order

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34
papers

2,827
citations

394421

19
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

5969
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry-dependent phonon renormalization in monolayer MoS ₂ transistor. Physical Review B, 2012, 85, .	3.2	865
2	Raman spectroscopy of graphene on different substrates and influence of defects. Bulletin of Materials Science, 2008, 31, 579-584.	1.7	549
3	Layer-dependent resonant Raman scattering of a few layer MoS ₂ . Journal of Raman Spectroscopy, 2013, 44, 92-96.	2.5	380
4	Phonon renormalization in doped bilayer graphene. Physical Review B, 2009, 79, .	3.2	238
5	Sharp Raman Anomalies and Broken Adiabaticity at a Pressure Induced Transition from Band to Topological Insulator in Sb ₂ Se ₃ . Physical Review Letters, 2013, 110, 107401.	7.8	100
6	Impeding Exciton Annihilation in Monolayer WS ₂ by Laser Irradiation. ACS Photonics, 2018, 5, 2904-2911.	6.6	66
7	Temperature-dependent Raman and x-ray studies of the spin-ice pyrochlore Dy ₂ Br ₈ nonmagnetic pyrochlore. Physical Review B, 2008, 78, .	3.2	87
8	Universality and scaling behavior of injected power in elastic turbulence in wormlike micellar gel. Physical Review E, 2011, 84, 015302.	2.1	52
9	Tuning photoinduced terahertz conductivity in monolayer graphene: Optical-pump terahertz-probe spectroscopy. Physical Review B, 2014, 90, .	3.2	49
10	Enhanced Raman and photoluminescence response in monolayer MoS ₂ due to laser healing of defects. Journal of Raman Spectroscopy, 2018, 49, 100-105.	2.5	48
11	Direct Generation of a Voltage and Current by Gas Flow Over Carbon Nanotubes and Semiconductors. Physical Review Letters, 2004, 93, 086601.	7.8	43
12	Excellent Electromagnetic Interference Shielding by Graphene/MnFe ₂ O ₄ /Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix. ChemistrySelect, 2016, 1, 5995-6003.	1.5	40
13	Low-temperature and high-pressure Raman and x-ray studies of pyrochlore Tb ₂ Br ₈ . Phonon anomalies and possible phase transition. Physical Review B, 2009, 79, .	3.2	34
14	Semiconducting Conjugated Microporous Polymer: An Electrode Material for Photoelectrochemical Water Splitting and Oxygen Reduction. ChemistrySelect, 2017, 2, 4522-4532.	1.5	34
15	Raman anomalies as signatures of pressure induced electronic topological and structural transitions in black phosphorus: Experiments and theory. Physical Review B, 2017, 96, .	3.2	32
16	Coupled phonons, magnetic excitations, and ferroelectricity in AlFeO ₃ : Raman and first-principles studies. Physical Review B, 2012, 85, .	3.2	31
17	Critical behavior at depinning of driven disordered vortex matter in H ₂ NbS ₄ . Physical Review B, 2012, 85, .	3.2	30
18	Nonequilibrium Fluctuation Relation for Sheared Micellar Gel in a Jammed State. Physical Review Letters, 2008, 101, 078301.	7.8	29

#	ARTICLE	IF	CITATIONS
19	Renormalization of the phonon spectrum in semiconducting single-walled carbon nanotubes studied by Raman spectroscopy. Physical Review B, 2009, 79, .	3.2	28
20	Flow-driven voltage generation in carbon nanotubes. Pramana - Journal of Physics, 2005, 65, 571-579.	1.8	15
21	Phonon anomalies and structural transition in spin ice Dy ₂ Ti ₂ O ₇ : a simultaneous pressure-dependent and temperature-dependent Raman study. Journal of Raman Spectroscopy, 2012, 43, 1157-1165.	2.5	14
22	Optically-driven red blood cell rotor in linearly polarized laser tweezers. Pramana - Journal of Physics, 2005, 65, 777-786.	1.8	11
23	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
24	Large-amplitude chirped coherent phonons in tellurium mediated by ultrafast photoexcited carrier diffusion. Physical Review B, 2010, 82, .	3.2	10
25	Tuning of phonon anharmonicity in pyrochlore titanates: temperature-dependent Raman studies of Sm ₂ Ti ₂ Zr ₂ O ₇ ($x=0, 1/2, 3/4$, and 1) ($x=0, 1/3$, and $2/3$). Journal of Raman Spectroscopy, 2012, 43, 549-555.	2.5	10
26	Tuning Ultrafast Photoresponse of Gold Nanorods. Plasmonics, 2013, 8, 1477-1483.	3.4	10
27	Negative velocity fluctuations and non-equilibrium fluctuation relation for a driven high critical current vortex state. Scientific Reports, 2017, 7, 5531.	3.3	9
28	Insights into Vibrational and Electronic Properties of MoS ₂ Using Raman, Photoluminescence, and Transport Studies. Lecture Notes in Nanoscale Science and Technology, 2014, , 155-215.	0.8	9
29	Spin liquid like Raman signatures in the hyperkagome iridate $\text{Na}_4\text{Ir}_3\text{O}_{10}$. Physical Review B, 2016, 94, .	3.2	8
30	Statistical properties of entropy-consuming fluctuations in jammed states of laponite suspensions: Fluctuation relations and generalized Gumbel distribution. Physical Review E, 2012, 85, 041404.	2.1	7
31	Origin of the thermal expansion anomaly in layered topological insulators: Ultrafast time-resolved pump-probe experiments and theory. Physical Review B, 2017, 96, .	3.2	5
32	Order and chaos in soft condensed matter. Pramana - Journal of Physics, 2006, 67, 33-46.	1.8	3
33	Pressure-induced isostructural electronic topological transitions in 2H-MoTe ₂ : x-ray diffraction and first-principles study. Journal of Physics Condensed Matter, 2021, 33, 065402.	1.8	1
34	Ultra thin films of nanocrystalline Ge studied by AFM and interference enhanced Raman scattering. Journal of Chemical Sciences, 2003, 115, 401-410.	1.5	0