

# 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

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g-index

34  
all docs

34  
docs citations

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times ranked

5969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced isostructural electronic topological transitions in 2H-MoTe <sub>2</sub> : x-ray diffraction and first-principles study. Journal of Physics Condensed Matter, 2021, 33, 065402.	1.8	1
2	Enhanced Raman and photoluminescence response in monolayer MoS <sub>2</sub> due to laser healing of defects. Journal of Raman Spectroscopy, 2018, 49, 100-105.	2.5	48
3	Impeding Exciton "Exciton Annihilation in Monolayer WS <sub>2</sub> by Laser Irradiation. ACS Photonics, 2018, 5, 2904-2911.	6.6	66
4	Semiconducting Conjugated Microporous Polymer: An Electrode Material for Photoelectrochemical Water Splitting and Oxygen Reduction. ChemistrySelect, 2017, 2, 4522-4532.	1.5	34
5	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
6	Negative velocity fluctuations and non-equilibrium fluctuation relation for a driven high critical current vortex state. Scientific Reports, 2017, 7, 5531.	3.3	9
7	Origin of the thermal expansion anomaly in layered $X_3Bi_2$ topological insulators: Ultrafast time-resolved pump-probe experiments and theory. Physical Review B, 2016, 94, .	3.2	5
8	Spin liquid like Raman signatures in the hyperkagome iridate $Na_4O_8$ . Physical Review B, 2016, 94, .	3.2	8
9	Excellent Electromagnetic Interference Shielding by Graphene "MnFe <sub>2</sub> O <sub>4</sub> " Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix. ChemistrySelect, 2016, 1, 5995-6003.	1.5	40
10	Tuning photoinduced terahertz conductivity in monolayer graphene: Optical-pump terahertz-probe spectroscopy. Physical Review B, 2014, 90, .	3.2	49
11	Insights into Vibrational and Electronic Properties of MoS <sub>2</sub> Using Raman, Photoluminescence, and Transport Studies. Lecture Notes in Nanoscale Science and Technology, 2014, , 155-215.	0.8	9
12	Tuning Ultrafast Photoresponse of Gold Nanorods. Plasmonics, 2013, 8, 1477-1483.	3.4	10
13	Sharp Raman Anomalies and Broken Adiabaticity at a Pressure Induced Transition from Band to Topological Insulator in $Sb_2Se_3$ . Physical Review Letters, 2013, 110, 107401.	7.8	100
14	Layer-dependent resonant Raman scattering of a few layer MoS <sub>2</sub> . Journal of Raman Spectroscopy, 2013, 44, 92-96.	2.5	380
15	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
16	Symmetry-dependent phonon renormalization in monolayer MoS <sub>2</sub> transistor. Physical Review B, 2012, 85, .	3.2	865
17	Critical behavior at depinning or driven disordered vortex matter in $H-NbS_3$ . Physical Review B, 2012, 85, .	3.2	30
18	Coupled phonons, magnetic excitations, and ferroelectricity in AlFeO <sub>3</sub> : Raman and first-principles studies. Physical Review B, 2012, 85, .	3.2	31

#	ARTICLE	IF	CITATIONS
19	Tuning of phonon anharmonicity in pyrochlore titanates: temperature-dependent Raman studies of $\text{Sm}^{2+}\text{Ti}_2\text{Zr}_x\text{O}_7$ ( $x=0, 1/2, 3/4$ , and $1$ ) ( $x=0, 1/3$ , and $2/3$ ). Journal of Raman Spectroscopy, 2012, 43, 549-555.	2.8	10
20	Phonon anomalies and structural transition in spin ice $\text{Dy}_2\text{Ti}_2\text{O}_7$ : a simultaneous pressure-dependent and temperature-dependent Raman study. Journal of Raman Spectroscopy, 2012, 43, 1157-1165.	2.5	14
21	Universality and scaling behavior of injected power in elastic turbulence in wormlike micellar gel. Physical Review E, 2011, 84, 015302.	2.1	52
22	Temperature-dependent infrared reflectivity studies of multiferroic $\text{TbMnO}_3$ : Evidence for spin-phonon coupling. Pramana - Journal of Physics, 2010, 74, 281-291.	1.8	10
23	Large-amplitude chirped coherent phonons in tellurium mediated by ultrafast photoexcited carrier diffusion. Physical Review B, 2010, 82, .	3.2	10
24	Low-temperature and high-pressure Raman and x-ray studies of pyrochlore $\text{Tb}_2\text{Ti}_2\text{O}_7$ . Phonon anomalies and possible phase transition. Physical Review B, 2009, 79, .	3.2	34
25	Renormalization of the phonon spectrum in semiconducting single-walled carbon nanotubes studied by Raman spectroscopy. Physical Review B, 2009, 79, .	3.2	28
26	Phonon renormalization in doped bilayer graphene. Physical Review B, 2009, 79, .	3.2	238
27	Raman spectroscopy of graphene on different substrates and influence of defects. Bulletin of Materials Science, 2008, 31, 579-584.	1.7	549
28	Temperature-dependent Raman and x-ray studies of the spin-ice pyrochlore $\text{Dy}_2\text{Ti}_2\text{O}_7$ nonmagnetic pyrochlore. Physical Review B, 2008, 78, .	1.7	87
29	Nonequilibrium Fluctuation Relation for Sheared Micellar Gel in a Jammed State. Physical Review Letters, 2008, 101, 078301.	7.8	29
30	Order and chaos in soft condensed matter. Pramana - Journal of Physics, 2006, 67, 33-46.	1.8	3
31	Optically-driven red blood cell rotor in linearly polarized laser tweezers. Pramana - Journal of Physics, 2005, 65, 777-786.	1.8	11
32	Flow-driven voltage generation in carbon nanotubes. Pramana - Journal of Physics, 2005, 65, 571-579.	1.8	15
33	Direct Generation of a Voltage and Current by Gas Flow Over Carbon Nanotubes and Semiconductors. Physical Review Letters, 2004, 93, 086601.	7.8	43
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