

# Sumit Kumar

## List of Publications by Year in descending order

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13  
papers

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citations

840728

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1125717

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13  
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13  
docs citations

13  
times ranked

489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the adsorption and desorption of vibrationally excited molecules on a metal surface. <i>Nature Chemistry</i> , 2018, 10, 592-598.	13.6	70
2	π-Hydrogen Bonding Wins over Conventional Hydrogen Bonding Interaction: A Jet-Cooled Study of Indole-π-Furan Heterodimer. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1368-1374.	2.5	47
3	Competition between n → π* Ar and conventional hydrogen bonding (N-H...N) interactions: an ab initio study of the complexes of 7-azaindole and fluorosubstituted pyridines. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8819-8827.	2.8	43
4	Competition between Hydrogen Bonding and Dispersion Interactions in the Indole-π-Pyridine Dimer and (Indole) <sub>2</sub> -π-Pyridine Trimer Studied in a Supersonic Jet. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7461-7472.	2.5	40
5	Structure of Indole-π-Imidazole Heterodimer in a Supersonic Jet: A Gas Phase Study on the Interaction between the Aromatic Side Chains of Tryptophan and Histidine Residues in Proteins. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11573-11580.	2.5	29
6	Effect of acceptor heteroatoms on π-hydrogen bonding interactions: A study of indole-π-thiophene heterodimer in a supersonic jet. <i>Journal of Chemical Physics</i> , 2012, 137, 094309.	3.0	26
7	Mimicking trimeric interactions in the aromatic side chains of the proteins: A gas phase study of indole-π-(pyrrole) <sub>2</sub> heterotrimer. <i>Journal of Chemical Physics</i> , 2012, 136, 174302.	3.0	25
8	Structure of 7-Azaindole-π-2-Fluoropyridine Dimer in a Supersonic Jet: Competition between N-H...N and N-H...F Interactions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10299-10308.	2.5	24
9	Observation of exclusively π-stacked heterodimer of indole and hexafluorobenzene in the gas phase. <i>Journal of Chemical Physics</i> , 2013, 139, 104311.	3.0	22
10	Structure of saligenin: microwave, UV and IR spectroscopy studies in a supersonic jet combined with quantum chemistry calculations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17163.	2.8	20
11	Vibrational Relaxation Lifetime of a Physisorbed Molecule at a Metal Surface. <i>Physical Review Letters</i> , 2019, 123, 156101.	7.8	20
12	Cerium-photocatalyzed aerobic oxidation of benzylic alcohols to aldehydes and ketones. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 1727-1732.	2.2	8
13	Interplay among Electrostatic, Dispersion, and Steric Interactions: Spectroscopy and Quantum Chemical Calculations of π-Hydrogen Bonded Complexes. <i>ChemPhysChem</i> , 2017, 18, 828-838.	2.1	7