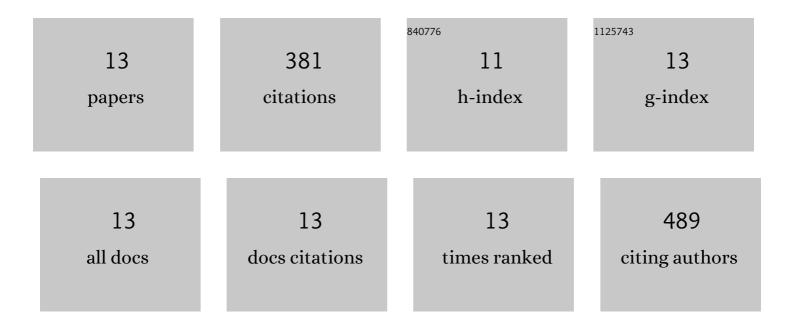
Sumit Kumar

List of Publications by Year in descending order

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