Pranav R Shirhatti

List of Publications by Year
in descending order

19	693	567281 15	794594 19
papers	citations	h-index	g-index

19	19	19	751
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oâ˜HÂ·Â·Â·O versus Oâ˜HÂ·Â·Â·S Hydrogen Bonding I: Experimental and Computational Studies on the p-CresolÂ·H₂O and p-CresolÂ·H₂S Complexes. Journal of Physical Chemistry A, 2009, 113, 5633-5643.	2.5	99
2	Oâ˜HÂ·Â·Â·O versus Oâ˜HÂ·Â·Â·S Hydrogen Bonding. 2. Alcohols and Thiols as Hydrogen Bond Acceptors. Journal of Physical Chemistry A, 2010, 114, 6944-6955.	2.5	78
3	Observation of the adsorption and desorption of vibrationally excited molecules on a metal surface. Nature Chemistry, 2018, 10, 592-598.	13.6	70
4	Oâ€“HÂ·Â·Â·S Hydrogen Bonds Conform to the Acidâ€“Base Formalism. Journal of Physical Chemistry A, 2013, 117, 8238-8250.	2.5	51
5	Blue shifted hydrogen bond in 3-methylindoleÂ·CHX3 complexes (X = Cl, F). Physical Chemistry Chemical Physics, 2010, 12, 6650.	2.8	46
6	Following the microscopic pathway to adsorption through chemisorption and physisorption wells. Science, 2020, 369, 1461-1465.	12.6	42
7	The importance of accurate adiabatic interaction potentials for the correct description of electronically nonadiabatic vibrational energy transfer: A combined experimental and theoretical study of NO(v = 3) collisions with a Au(111) surface. Journal of Chemical Physics, 2014, 140, 044701.	3.0	39
8	State-to-State Time-of-Flight Measurements of NO Scattering from Au(111): Direct Observation of Translation-to-Vibration Coupling in Electronically Nonadiabatic Energy Transfer. Journal of Physical Chemistry A, 2013, 117, 8750-8760.	2.5	34
9	Structure of the Indoleâ˜Benzene Dimer Revisited. Journal of Physical Chemistry A, 2011, 115, 9485-9492.	2.5	33
10	Câ€“HÂ·Â·Â·Y Hydrogen Bonds in the Complexes of p-Cresol and p-Cyanophenol with Fluoroform and Chloroform. Journal of Physical Chemistry A, 2013, 117, 2307-2316.	2.5	32
11	CO Desorption from a Catalytic Surface: Elucidation of the Role of Steps by Velocity-Selected Residence Time Measurements. Journal of the American Chemical Society, 2015, 137, 1465-1475.	13.7	30
12	Vibrational energy transfer near a dissociative adsorption transition state: State-to-state study of HCl collisions at Au(111). Journal of Chemical Physics, 2016, 145, 054709.	3.0	29
13	Activated Dissociation of HCl on Au(111). Journal of Physical Chemistry Letters, 2016, 7, 1346-1350.	4.6	29
14	Cï£¿Hâ‹…â‹…â‹…N Hydrogenâ€Bonding Interaction in 7â€Azaindole:CHX₃ (X=F, Cl) Complexes. ChemPhysChem, 2014, 15, 109-117.	2.1	19
15	Incidence energy dependent state-to-state time-of-flight measurements of NO(v = 3) collisions with Au(111): the fate of incidence vibrational and translational energy. Physical Chemistry Chemical Physics, 2014, 16, 7602.	2.8	16
16	Electron hole pair mediated vibrational excitation in CO scattering from Au(111): Incidence energy and surface temperature dependence. Journal of Chemical Physics, 2014, 141, 124704.	3.0	15
17	Work Function Dependence of Vibrational Relaxation Probabilities: NO(v = 2) Scattering from Ultrathin Metallic Films of Ag/Au(111). Journal of Physical Chemistry C, 2018, 122, 10027-10033.	3.1	14
18	Translational Inelasticity of NO and CO in Scattering from Ultrathin Metallic Films of Ag/Au(111). Journal of Physical Chemistry C, 2018, 122, 18942-18948.	3.1	9

#	Article	IF	Citations
19	Electronically Nonadiabatic Vibrational Excitation of N₂ Scattered from Pt(111). Journal of Physical Chemistry C, 2015, 119, 14722-14727.	3.1	8