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	Following the microscopic pathway to adsorption through chemisorption and physisorption wells. Science, 2020, 369, 1461-1465.	12.6	42
2	Observation of the adsorption and desorption of vibrationally excited molecules on a metal surface. Nature Chemistry, 2018, 10, 592-598.	13.6	70
3	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
4	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
5	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
6	Activated Dissociation of HCl on Au(111). Journal of Physical Chemistry Letters, 2016, 7, 1346-1350.	4.6	29
7	Electronically Nonadiabatic Vibrational Excitation of N₂ Scattered from Pt(111). Journal of Physical Chemistry C, 2015, 119, 14722-14727.	3.1	8
8	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
9	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
10	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
11	Cï£¿Hâ‹…â‹…â‹…N HydrogenâEBonding Interaction in 7â€Azaindole:CHX₃ (X=F, Cl) Complexes. ChemPhysChem, 2014, 15, 109-117.	2.1	19
12	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
13	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
14	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
15	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
16	Structure of the Indoleâ‹¯Benzene Dimer Revisited. Journal of Physical Chemistry A, 2011, 115, 9485-9492.	2.5	33
17	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
18	Blue shifted hydrogen bond in 3-methylindoleÂ·CHX3 complexes (X = Cl, F). Physical Chemistry Chemical Physics, 2010, 12, 6650.	2.8	46

#	Article	IF	Citations
19	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