Matthias Heger

List of Publications by Year
in descending order

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17	379	933447 10	888059 17
papers	citations	h-index	g-index

17	17	17	368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From hydrogen bond donor to acceptor: the effect of ethanol fluorination on the first solvating water molecule. Physical Chemistry Chemical Physics, 2013, 15, 16065.	2.8	48
2	The rich conformational landscape of perillyl alcohol revealed by broadband rotational spectroscopy and theoretical modelling. Physical Chemistry Chemical Physics, 2019, 21, 15408-15416.	2.8	45
3	Control over the Hydrogenâ€Bond Docking Site in Anisole by Ring Methylation. Angewandte Chemie - International Edition, 2016, 55, 1921-1924.	13.8	41
4	The effect of hydrogen bonding on torsional dynamics: A combined far-infrared jet and matrix isolation study of methanol dimer. Journal of Chemical Physics, 2014, 141, 174314.	3.0	33
5	To Ï€ or not to Ï€ â€“ how does methanol dock onto anisole?. Physical Chemistry Chemical Physics, 2015, 17, 13045-13052.	2.8	33
6	Conformational dynamics of 1-phenyl-2,2,2-trifluoroethanol by rotational spectroscopy and ab initio calculations. Journal of Molecular Spectroscopy, 2018, 351, 62-67.	1.2	31
7	Communication: Towards the binding energy and vibrational red shift of the simplest organic hydrogen bond: Harmonic constraints for methanol dimer. Journal of Chemical Physics, 2014, 141, 101105.	3.0	28
8	Aromatic embedding wins over classical hydrogen bonding â€“ a multi-spectroscopic approach for the diphenyl etherâ€“methanol complex. Physical Chemistry Chemical Physics, 2016, 18, 25975-25983.	2.8	27
9	Soft hydrogen bonds to alkenes: the methanolâ€“ethene prototype under experimental and theoretical scrutiny. Chemical Science, 2015, 6, 3738-3745.	7.4	26
10	Molecular Docking via Olefinic OHÂ·Â·Â·Ï€ Interactions: A Bulky Alkene Model System and Its Cooperativity. Journal of Physical Chemistry A, 2015, 119, 1723-1730.	2.5	22
11	A spectroscopic andab initiostudy of the hydrogen peroxideâ€“formic acid complex: hindering the internal motion of H₂O₂. Physical Chemistry Chemical Physics, 2018, 20, 21345-21351.	2.8	10
12	The donor OH stretchingâ€“libration dynamics of hydrogen-bonded methanol dimers in cryogenic matrices. Physical Chemistry Chemical Physics, 2016, 18, 3739-3745.	2.8	9
13	Bracketing subtle conformational energy differences between self-solvated and stretched trifluoropropanol. Physical Chemistry Chemical Physics, 2015, 17, 9899-9909.	2.8	8
14	Ringmethylierung kontrolliert die WasserstoffbrÃ¼ckenâ€Andockstelle bei Anisol. Angewandte Chemie, 2016, 128, 1955-1959.	2.0	7
15	Vibrational Spectroscopy of Homo- and Heterochiral Amino Acid Dimers: Conformational Landscapes. Molecules, 2022, 27, 38.	3.8	7
16	Structural and energetic properties of protonated and sodiated asparagine probed by a new laboratory IRMPD spectrometer. Journal of Molecular Spectroscopy, 2018, 352, 36-44.	1.2	3
17	Comment on: â€œQuantum Confinement in Hydrogen Bondâ€•by Carlos da Silva dos Santos, Elso Drigo Filho, and Regina Maria Ricotta, Int. J. Quantum Chem. 2015, 115, 765-770.. International Journal of Quantum Chemistry, 2015, 115, 1510-1511.	2.0	1