Paul Blaise

List of Publications by Year
in descending order

22 papers	662 citations	471061 17 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	190 citing authors

#	Article	IF	Citations
1	Theoretical interpretation of the line shape of the gaseous acetic acid cyclic dimer. Journal of Chemical Physics, 2005, 122, 064306.	1.2	96
2	Infrared spectra of hydrogen bonded species in solution. Chemical Physics, 1988, 126, 263-290.	0.9	68
3	The Infrared Spectral Density of Weak Hydrogen Bonds within the Linear Response Theory. Advances in Chemical Physics, 2007, , 1-186.	0.3	58
4	Spectral density of H-bonds. II. Intrinsic anharmonicity of the fast mode within the strong anharmonic coupling theory. Chemical Physics, 2001, 273, 11-37.	0.9	40
5	Theoretical interpretation of the infrared lineshape of liquid and gaseous acetic acid. Chemical Physics, 2006, 320, 267-274.	0.9	36
6	Quantum theory of the spectral density of the hydrogen bond in solution Part 2. A study of dimeric hydrogen-bond systems by perturbative method. Computational and Theoretical Chemistry, 1994, 314, 101-112.	1.5	34
7	Infrared Lineshapes of Weak Hydrogen Bonds: Recent Quantum Developments. Advances in Chemical Physics, 2002, , 241-309.	0.3	34
8	Polarized Infrared Spectra of the H(D) Bond in 2â€Thiophenic Acid Crystals: A Spectroscopic and Computational Study. ChemPhysChem, 2009, 10, 3021-3033.	1.0	31
9	Theory of weak damped H-bonds: relative influence of relaxation mechanisms on IR spectra. Chemical Physics, 1999, 244, 405-437.	0.9	30
10	IR spectral density of weak H-bonds involving quantum direct and indirect dampings. Beyond the adiabatic and harmonic approximations. Journal of Molecular Structure, 2004, 687, 125-133.	1.8	29
11	Spectral density of medium strength H-bonds. Direct damping and intrinsic anharmonicity of the slow mode. Beyond adiabatic approximation. Chemical Physics, 2000, 256, 85-106.	0.9	28
12	Theoretical interpretation of the line shape of crystalline adipic acid. Journal of Chemical Physics, 2006, 124, 024514.	1.2	27
13	Anharmonic effects on theoretical IR line shapes of H-bonds. Chemical Physics, 1999, 250, 249-265.	0.9	24
14	Linear response theory and IR spectral density of direct damped weak H-bonds: validity of adiabatic approximation. Chemical Physics, 1999, 243, 229-248.	0.9	19
15	Theoretical interpretation of the infrared lineshape of gaseous propynoic and acrylic acid dimers. Journal of Molecular Structure, 2006, 785, 27-31.	1.8	18
16	IR spectral density of weak H-bonds involving indirect damping. I. A new approach using non-Hermitean effective Hamiltonians. Chemical Physics, 2003, 293, 9-22.	0.9	17
17	Infrared spectra of weak hydrogen bonds and indirect damping. On the deep connection between the quantum model and the semi-classical one of Robertson and Yarwood. Chemical Physics, 2005, 313, 177-197.	0.9	15
18	IR spectral density of weak H-bonds involving indirect damping. Part II: Davydov coupling. Chemical Physics, 2003, 293, 23-30.	0.9	14

#	Article	IF	Citations
19	Electrical anharmonicity in hydrogen bonded systems: complete interpretation of the IR spectra of the Clâ€“Hâƒ‘ stretching band in the gaseous (CH₃)₂Oâ‹¯HCl complex. Physical Chemistry Chemical Physics, 2017, 19, 5917-5931.	1.3	10
20	Theoretical interpretation of the infrared lineshapes of the H- and D-bonds in liquid formic acid. Chemical Physics, 2017, 492, 12-22.	0.9	5
21	Towards accurate infrared spectral density of weak H-bonds in absence of relaxation mechanisms. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 197-208.	2.0	5
22	Equivalence between the Classical and Quantum IR Spectral Density Approaches of Weak H-Bonds in the Absence of Damping. Journal of Physical Chemistry A, 2018, 122, 2108-2115.	1.1	4