Jacques LiÃ©vin

List of Publications by Year
in descending order

32	465	759233 12	713466 21
papers	citations	h-index	g-index

32	32	32	415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The VMFCI method: A flexible tool for solving the molecular vibration problem. Journal of Computational Chemistry, 2006, 27, 627-640.	3.3	64
2	Alternative perturbation method for the molecular vibrationâ€“rotation problem. International Journal of Quantum Chemistry, 2003, 93, 245-264.	2.0	61
3	Comparison of the experimental, semi-experimental and ab initio equilibrium structures of acetylene: Influence of relativisitic effects and of the diagonal Bornâ€“Oppenheimer corrections. Journal of Chemical Physics, 2011, 134, 064119.	3.0	58
4	Vinylidene-acetylene cation isomerization investigated by large scale ab initio calculations. Journal of Chemical Physics, 2006, 124, 214305.	3.0	29
5	Experimental 2CH excitation in acetylene-containing van der Waals complexes. Molecular Physics, 2012, 110, 2781-2796.	1.7	25
6	Potential energy surface and bound states of the NH3â€“Ar and ND3â€“Ar complexes. Journal of Chemical Physics, 2014, 141, 224303.	3.0	25
7	Ab Initio Intermolecular Potential of Arâ€“C₂H₂ Refined Using High-Resolution Spectroscopic Data. Journal of Physical Chemistry A, 2013, 117, 13767-13774.	2.5	21
8	Revisiting Mullikenâ€™s Concepts about Rydberg States and Rydbergâˆ’Valence Interactions from Large-Scale Ab Initio Calculations on the Acetylene Molecule. Journal of Physical Chemistry A, 2009, 113, 13210-13220.	2.5	16
9	Accurate ground-state potential energy surfaces of the C₂H₂â€“Kr and C₂H₂â€“Xe van der Waals complexes. Molecular Physics, 2012, 110, 2751-2760.	1.7	16
10	Ab initio characterization of the state of the acetylene molecule. Journal of Molecular Spectroscopy, 1992, 156, 123-146.	1.2	14
11	Radiative lifetime of the aâ€‰Î£3+ state of HeH+ from ab initio calculations. Journal of Chemical Physics, 2010, 133, 114302.	3.0	13
12	Experimental and Theoretical Studies of the Isotope Exchange Reaction. Astrophysical Journal, 2019, 877, 38.	4.5	12
13	Influence of kinetic coupling in rectilinear coordinates on the vibrational spectrum of fluoroform. Chemical Physics Letters, 2008, 466, 16-20.	2.6	10
14	Ab initio study of the neutral and anionic alkali and alkaline earth hydroxides: Electronic structure and prospects for sympathetic cooling of OHâˆ’. Journal of Chemical Physics, 2017, 146, 194309.	3.0	10
15	Cold reactive and nonreactive collisions of Li and Rb with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>âˆ’</mml:mo></mml:msup></mml:mrow></mml:math> : Implications for hybrid-trap experiments. Physical Review A, 2019, 99, .	2.5	10
16	Rydberg states of cyanoacetylene investigated by (3â€‰+â€‰1) REMPI spectroscopy in the 77,000â€“90,000â€‰cm^{âˆ’1} energy range. Molecular Physics, 2012, 110, 2829-2842.	1.7	9
17	High-resolution, near-infrared CW-CRDS, andab initioinvestigations of N₂Oâ€“HDO. Molecular Physics, 2015, 113, 473-482.	1.7	9
18	A vibrational CASSCF study of stretch-bend interactions and their influence on infrared intensities in the water molecule. Theoretica Chimica Acta, 1995, 92, 211-226.	0.8	7

#	Article	IF	Citations
19	Vibronic structure of the²Î_uground electronic state of dicyanoacetylene cation revisited by PFI-ZEKE photoelectron spectroscopy andab initiocalculations. Molecular Physics, 2015, 113, 3946-3954.	1.7	7
20	Ab initio study of reactive collisions between Rb(2S) or Rb(2P) and OHâ^'(1Î£+). Journal of Chemical Physics, 2016, 144, 204306.	3.0	7
21	Experimental and theoretical investigations of H2Oâ€“Ar. Journal of Chemical Physics, 2017, 147, 014302.	3.0	7
22	Accuracy of the equilibrium structure of sulphur dioxide. Molecular Physics, 2022, 120, .	1.7	6
23	Experimental and ab initio characterization of HC3N+ vibronic structure. I. Synchrotron-based threshold photo-electron spectroscopy. Journal of Chemical Physics, 2016, 145, 234310.	3.0	5
24	Theoretical description of electronically excited vinylidene up to 10 eV: First high level ab initio study of singlet valence and Rydberg states. Journal of Chemical Physics, 2014, 141, 174317.	3.0	4
25	Experimental and ab initio characterization of HC3N+ vibronic structure. II. High-resolution VUV PFI-ZEKE spectroscopy. Journal of Chemical Physics, 2016, 145, 234309.	3.0	4
26	Overtone, 2NH (Î½₁+Î½₃) spectroscopy of NH₃â€“Ar and NH₃â€“Kr. Molecular Physics, 2015, 113, 3934-3945.	1.7	3
27	Vibronic structure of the cyanobutadiyne cation. II. Theoretical exploration of the complex energy landscape of HC5N+. Journal of Chemical Physics, 2019, 150, 244303.	3.0	3
28	Reactivity of Hydrated Hydroxide Anion Clusters with H and Rb: An ab Initio Study. Journal of Physical Chemistry A, 2019, 123, 8893-8906.	2.5	3
29	Dynamics of the isotope exchange reaction of D with H3+, H2D+, and D2H+. Journal of Chemical Physics, 2021, 154, 084307.	3.0	3
30	From atoms to biomolecules: a fruitful perspective. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	2
31	Vibronic structure of the cyanobutadiyne cation. I. VUV photoionization study of HC5N. Journal of Chemical Physics, 2019, 150, 244304.	3.0	1
32	Cold collisions of C2â^' with Li and Rb atoms in hybrid traps. Journal of Physics: Conference Series, 2020, 1412, 062003.	0.4	1