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	Accuracy of the equilibrium structure of sulphur dioxide. Molecular Physics, 2022, 120, .	1.7	6
2	Dynamics of the isotope exchange reaction of D with H3+, H2D+, and D2H+. Journal of Chemical Physics, 2021, 154, 084307.	3.0	3
3	Cold collisions of C2âˆ’ with Li and Rb atoms in hybrid traps. Journal of Physics: Conference Series, 2020, 1412, 062003.	0.4	1
4	Vibronic structure of the cyanobutadiyne cation. I. VUV photoionization study of HC5N. Journal of Chemical Physics, 2019, 150, 244304.	3.0	1
5	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
6	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
7	Experimental and Theoretical Studies of the Isotope Exchange Reaction. Astrophysical Journal, 2019, 877, 38.	4.5	12
8	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
9	Experimental and theoretical investigations of H2Oâ€“Ar. Journal of Chemical Physics, 2017, 147, 014302.	3.0	7
10	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
11	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
12	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
13	Ab initio study of reactive collisions between Rb(2S) or Rb(2P) and OHâˆ’(1Î£+). Journal of Chemical Physics, 2016, 144, 204306.	3.0	7
14	Overtone, 2NH (Î½₁+Î½₃) spectroscopy of NH₃â€“Ar and NH₃â€“Kr. Molecular Physics, 2015, 113, 3934-3945.	1.7	3
15	High-resolution, near-infrared CW-CRDS, andab initioinvestigations of N₂Oâ€“HDO. Molecular Physics, 2015, 113, 473-482.	1.7	9
16	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
17	Potential energy surface and bound states of the NH3â€“Ar and ND3â€“Ar complexes. Journal of Chemical Physics, 2014, 141, 224303.	3.0	25
18	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

#	Article	IF	Citations
19	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
20	Rydberg states of cyanoacetylene investigated by (3â€‰+â€‰1) REMPI spectroscopy in the 77,000â€“90,000â€‰cm^{â^'1} energy range. Molecular Physics, 2012, 110, 2829-2842.	1.7	9
21	Experimental 2CH excitation in acetylene-containing van der Waals complexes. Molecular Physics, 2012, 110, 2781-2796.	1.7	25
22	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
23	From atoms to biomolecules: a fruitful perspective. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	2
24	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
25	Radiative lifetime of the aâ€‰Î£3+ state of HeH+ from ab initio calculations. Journal of Chemical Physics, 2010, 133, 114302.	3.0	13
26	Revisiting Mullikenâ€™s Concepts about Rydberg States and Rydbergâ^'Valence Interactions from Large-Scale Ab Initio Calculations on the Acetylene Molecule. Journal of Physical Chemistry A, 2009, 113, 13210-13220.	2.5	16
27	Influence of kinetic coupling in rectilinear coordinates on the vibrational spectrum of fluoroform. Chemical Physics Letters, 2008, 466, 16-20.	2.6	10
28	Vinylidene-acetylene cation isomerization investigated by large scale ab initio calculations. Journal of Chemical Physics, 2006, 124, 214305.	3.0	29
29	The VMFCI method: A flexible tool for solving the molecular vibration problem. Journal of Computational Chemistry, 2006, 27, 627-640.	3.3	64
30	Alternative perturbation method for the molecular vibrationâ€“rotation problem. International Journal of Quantum Chemistry, 2003, 93, 245-264.	2.0	61
31	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
32	Ab initio characterization of the state of the acetylene molecule. Journal of Molecular Spectroscopy, 1992, 156, 123-146.	1.2	14