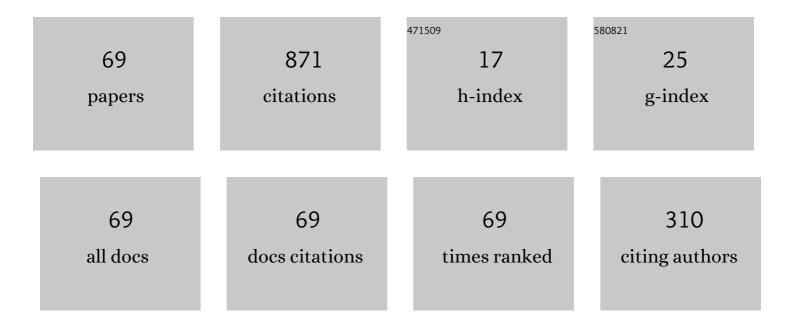
Paolo Stoppa

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3172006/publications.pdf Version: 2024-02-01



ΡλΟΙΟ ΣΤΟΡΟΛ

#	Article	IF	CITATIONS
1	Anharmonic theoretical simulations of infrared spectra of halogenated organic compounds. Journal of Chemical Physics, 2013, 139, 074310.	3.0	72
2	Anharmonic force field and vibrational dynamics of CH2F2 up to 5000 cmâ^'1 studied by Fourier transform infrared spectroscopy and state-of-the-art <i>ab initio</i> calculations. Journal of Chemical Physics, 2012, 136, 214302.	3.0	37
3	An integrated experimental and quantum-chemical investigation on the vibrational spectra of chlorofluoromethane. Journal of Chemical Physics, 2013, 139, 164302.	3.0	36
4	ATIRS package: A program suite for the rovibrational analysis of infrared spectra of asymmetric top molecules. Journal of Molecular Spectroscopy, 2007, 243, 148-154.	1.2	33
5	Adsorption of F2CCFCl on TiO2 nano-powder: Structures, energetics and vibrational properties from DRIFT spectroscopy and periodic quantum chemical calculations. Applied Surface Science, 2015, 353, 986-994.	6.1	28
6	Infrared Spectra, Integrated Band Intensities, and Anharmonic Force Field of H2C=CHF. Journal of Physical Chemistry A, 2009, 113, 1497-1504.	2.5	26
7	Spectroscopic measurements of SO2 line parameters in the 9.2â€,μm atmospheric region and theoretical determination of self-broadening coefficients. Journal of Chemical Physics, 2010, 132, 044315.	3.0	26
8	Microwave, High-Resolution Infrared, and Quantum Chemical Investigations of CHBrF ₂ : Ground and v ₄ = 1 States. Journal of Physical Chemistry A, 2011, 115, 453-459.	2.5	25
9	Computing sextic centrifugal distortion constants by DFT: A benchmark analysis on halogenated compounds. Journal of Molecular Spectroscopy, 2017, 335, 117-125.	1.2	24
10	Quantum-chemical ab initio investigation of the vibrational spectrum of halon 1113 and its anharmonic force field: A joint experimental and computational approach. Chemical Physics, 2012, 397, 55-64.	1.9	22
11	High-Resolution FTIR, Microwave, and Ab Initio Investigations of CH279BrF:Â Ground,v5= 1, andv6= 1, 2 State Constants. Journal of Physical Chemistry A, 2007, 111, 7090-7097.	2.5	20
12	Toward a Complete Understanding of the Vinyl Fluoride Spectrum in the Atmospheric Region. ChemPhysChem, 2011, 12, 356-363.	2.1	20
13	N2-, O2- and He-collision-induced broadening of sulfur dioxide ro-vibrational lines in the 9.2μm atmospheric window. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 373-379.	3.9	20
14	Spectroscopic study of CHBrF2 up to 9500â€,cmâ^'1: Vibrational analysis, integrated band intensities, and <i>ab initio</i> calculations. Journal of Chemical Physics, 2010, 133, 044310.	3.0	19
15	Accurate Vibrational–Rotational Parameters and Infrared Intensities of 1-Bromo-1-fluoroethene: A Joint Experimental Analysis and Ab Initio Study. Journal of Physical Chemistry A, 2017, 121, 3305-3317.	2.5	18
16	CO2-, He- and H2-broadening coefficients of SO2 for ν1 band and ground state transitions for astrophysical applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 367-376.	2.3	18
17	Determination of the vinyl fluoride line intensities by TDL spectroscopy: the object oriented approach of Visual Line Shape Fitting Program to line profile analysis. Molecular Physics, 2010, 108, 677-685.	1.7	17
18	A complete listing of sulfur dioxide self-broadening coefficients for atmospheric applications by coupling infrared and microwave spectroscopy to semiclassical calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 233-248.	2.3	17

PAOLO STOPPA

#	Article	IF	CITATIONS
19	Study of the Vibrational Spectra and Absorption Cross Sections of 1-Chloro-1-fluoroethene by a Joint Experimental and Ab Initio Approach. Journal of Physical Chemistry A, 2016, 120, 8369-8386.	2.5	17
20	Jet-cooled diode laser spectrum and FTIR integrated band intensities of CF ₃ Br: rovibrational analysis of 2μ2 ₅ and ν2 ₂ + î½2 ₃ bands near 9 μm cross-section measurements in the 450–2500 cm ^{â^'1} region. Molecular Physics, 2008, 106, 1171-1179.	and 1.7	16
21	Modelling the anharmonic and Coriolis resonances within the six level polyad involving the μ24 fundamental in the ro-vibrational spectrum of vinyl fluoride. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1240-1249.	2.3	16
22	Self-, N ₂ -, O ₂ -broadening coefficients and line parameters of HFC-32 for <i>¹/2</i> ₇ band and ground state transitions from infrared and microwave spectroscopy. Molecular Physics, 2014, 112, 2384-2396.	1.7	15
23	Molecular synthons for accurate structural determinations: the equilibrium geometry of 1-chloro-1-fluoroethene. Physical Chemistry Chemical Physics, 2019, 21, 3615-3625.	2.8	15
24	High resolution FTIR spectrum of vinyl fluoride near 9 μm: rovibrational analysis of the v 7 band. Molecular Physics, 1995, 84, 281-290.	1.7	14
25	The vibrational spectra and normal coordinates analysis of bromofluoromethane, CH 2 BrF. Journal of Molecular Structure, 2000, 517-518, 197-208.	3.6	14
26	Vinyl halides adsorbed on TiO2 surface: FTIR spectroscopy studies and ab initio calculations. Journal of Molecular Structure, 2005, 741, 213-219.	3.6	14
27	The energetic of (CH2F2)2 investigated by TDL IR spectroscopy and DFT computations: From collision induced relaxation of ro-vibrational transitions to non-covalent interactions. Journal of Chemical Physics, 2015, 142, 134310.	3.0	14
28	FTIR spectra of CH2F2 in the 1000–1300 cmâ^'1 region: Rovibrational analysis and modeling of the Coriolis and anharmonic resonances in the ν3, ν25, ν27, ν29 and 2ν24 polyad. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 175, 8-16.	2.3	14
29	High resolution FTIR study of the $^{1}\!/_{2}5$ and $^{1}\!/_{2}6$ bands of CH2D 35 Cl: analysis of resonances and determination of ground and upper state constants. Molecular Physics, 2005, 103, 2803-2811.	1.7	13
30	High-Resolution Infrared Study of Vinyl Fluoride in the 750â^'1050 cm-1 Region:  Rovibrational Analysis and Resonances Involving the ν8, ν10, and ν11 Fundamentals. Journal of Physical Chemistry A, 2006, 110, 13412-13418.	2.5	12
31	Anharmonic resonances in the CH chromophore overtone spectra of CHBrF ₂ . Molecular Physics, 2011, 109, 2163-2172.	1.7	12
32	Sextic centrifugal distortion constants: interplay of density functional and basis set for accurate yet feasible computations. Molecular Physics, 2020, 118, e1734678.	1.7	12
33	Measurements and Rovibrational Study of the CH2FCl ν24Band by Tunable Diode Laser Spectrometer. Journal of Molecular Spectroscopy, 1996, 177, 106-114.	1.2	11
34	High-Resolution Study of the ν23 Band of Chlorofluoromethane by Diode Laser Spectroscopy. Journal of Molecular Spectroscopy, 1993, 159, 481-493.	1.2	10
35	Diode Laser Spectroscopy of the $\hat{1}/\!\!\!/_2$ 8 Band of Chlorofluoromethane. Journal of Molecular Spectroscopy, 1994, 166, 264-272.	1.2	9
36	High-Resolution Analysis of the ν4 Absorption Band of CH279BrF. Journal of Molecular Spectroscopy, 2000, 201, 280-284.	1.2	9

PAOLO STOPPA

#	Article	IF	CITATIONS
37	Infrared Spectrum and Anharmonic Force Field of CH ₂ DBr. Journal of Physical Chemistry A, 2009, 113, 6083-6090.	2.5	9
38	The ro-vibrational analysis of the <i>v</i> ₄ fundamental band of CF ₃ Br from jet-cooled diode laser and FTIR spectra in the 8.3-1¼m region. Molecular Physics, 2014, 112, 1899-1909.	1.7	9
39	High Resolution Infrared Spectrum of the C–F Stretching Mode of CH2F37Cl. Journal of Molecular Spectroscopy, 1997, 183, 388-397.	1.2	8
40	Tunable diode laser spectra and analysis of the \hat{l} fundamental of. Journal of Molecular Spectroscopy, 2003, 220, 7-12.	1.2	8
41	Rovibrational analysis of the ν1fundamental of CF3Cl from diode laser spectra in a supersonic slit-jet expansion. Physical Chemistry Chemical Physics, 2003, 5, 3595-3599.	2.8	8
42	The Spectroscopic Characterization of Halogenated Pollutants through the Interplay between Theory and Experiment: Application to R1122. Molecules, 2022, 27, 748.	3.8	8
43	A Fourier transform infrared study of CH2=CHF in the v 4 band region near 1650 cm-1. Molecular Physics, 1996, 87, 581-591.	1.7	7
44	Infrared Laser Spectroscopy of the ν4and ν9Band System of CH2F37Cl. Journal of Molecular Spectroscopy, 1999, 194, 73-78.	1.2	7
45	High-Resolution FTIR Spectrum of Vinyl Fluoride: Rovibrational Analysis of the Torsion Mode at 712 cmâ^'1. Journal of Molecular Spectroscopy, 1995, 171, 504-512.	1.2	6
46	Laser infrared spectroscopy of vinyl fluoride in the 1280–1400 cmâ^'1region. Molecular Physics, 2005, 103, 657-666.	1.7	6
47	Spectroscopic constants of the ground and lower vibrational states of CH281BrF: A combined high resolution infrared and microwave study. Journal of Molecular Spectroscopy, 2007, 246, 126-132.	1.2	6
48	High-resolution FTIR spectrum of CH ₂ D ⁷⁹ Br: the ground, <i>></i> ₅ =1 and <i>></i> ₉ =1 state constants. Molecular Physics, 2010, 108, 733-738.	1.7	6
49	High-resolution FTIR spectroscopy of HCFC-31 in the 950â [~] '1160 cm ^{â[~]'1} region: rovibrational analysis and resonances in the ν ₄ , ν ₉ and Ĩ½ ₅ +ν ₆ bands CH ₂ ³⁵ ClF. Molecular Physics, 2015, 113, 3683-3690.	af.7	6
50	Insights into the interaction between CH2F2 and titanium dioxide: DRIFT spectroscopy and DFT analysis of the adsorption energetics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1614-1620.	3.9	6
51	Diode laser spectra and rovibrational analysis of the <i>ν</i> ₄ fundamental of. Molecular Physics, 2006, 104, 3187-3192.	1.7	5
52	High resolution infrared synchrotron study of CH2D81Br: ground state constants and analysis of the ν25, ν26and ν9fundamentals. Molecular Physics, 2012, 110, 2063-2069.	1.7	5
53	High resolution FTIR spectroscopy of chlorofluoromethane near 13 µm: rovibrational analysis and resonances of ν ₅ and 2 <i>ν</i> ₆ bands in CIF and CIF. Molecular Physics, 2013, 111, 525-534.	1.7	5
54	High-resolution millimeter-wave spectroscopy of CH2DCl: Paving the way for future astronomical observations of chloromethane isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106982.	2.3	5

PAOLO STOPPA

#	Article	IF	CITATIONS
55	Spectroscopy of a low global warming power refrigerant. Infrared and millimeter-wave spectra of trifluoroethene (HFO-1123) in the ground and some vibrational excited states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106980.	2.3	5
56	High resolution FTIR spectroscopy of CH279BrF: Analysis of the ν8 fundamental band. Journal of Molecular Spectroscopy, 2008, 251, 123-128.	1.2	4
57	High-resolution infrared spectroscopy of CH ₂ ⁸¹ BrF near 8Âl¼m: rovibrational analysis of the <i>ν</i> ₃ and <i>ν2</i> ₈ fundamentals and resonances with the dark states 2 <i>ν2</i> ₅ and <i>ν2</i> ₆ + <i>ν2</i> ₉ . Molecular Physics, 2014, 112, 1799-1807.	1.7	4
58	Line-by-line spectroscopic parameters of HFC-32 ro-vibrational transitions within the atmospheric window around 8.2â€1¼m. Journal of Molecular Spectroscopy, 2018, 348, 57-63.	1.2	4
59	Experimental and theoretical studies of the vibrational spectra of cis-1-bromo-2-fluoroethene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1967-1975.	3.9	3
60	Experimental and theoretical studies of the vibrational spectra of CHD ₂ Br. Molecular Physics, 2012, 110, 2091-2102.	1.7	3
61	Collision induced broadening of ν1 band and ground state spectral lines of sulfur dioxide perturbed by N2 and O2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 155-163.	2.3	3
62	High-resolution infrared spectroscopy of CH ₂ D ⁷⁹ Br: ro-vibrational analysis of the ν ₄ and ν ₈ fundamental bands. Molecular Physics, 2017, 115, 1555-1561.	1.7	3
63	High resolution FTIR study of the ν25, ν6, and ν9 fundamental bands of CH2D37Cl. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107719.	2.3	3
64	High-resolution rovibrational analysis of CH281BrF in the range 920–980cmâ^'1. Chemical Physics Letters, 2013, 579, 16-22.	2.6	2
65	Vibrational spectra and normal coordinates analysis of cis-FHCCHI. Journal of Molecular Structure, 2007, 827, 165-175.	3.6	1
66	High-resolution FTIR spectroscopy of CHD279Br: ro-vibrational analysis of the v4 fundamental and determination of the ground state constants. Molecular Physics, 2020, 118, e1581293.	1.7	1
67	FTIR spectrum of vinyl fluoride near 3.6 μm: rovibrational analysis of the ν4+ν7 band and modelling Coriolis resonances in a seven-level polyad. Molecular Physics, 2018, 116, 3487-3494.	1.7	0
68	High-resolution infrared spectrum of CHD ₂ ⁷⁹ Br: ro-vibrational analysis of the ν ₅ and ν ₉ fundamentals. Molecular Physics, 2020, 118, e1654627.	1.7	0
69	High-resolution infrared and ab initio investigation of CHD279Br: Ro-vibrational analysis of the ν6 fundamental and the 2ν6â~ν6 hot band. Molecular Physics, 2020, 118, e1766141.	1.7	0