

Vincent Boudon

List of Publications by Year in descending order

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145
papers

13,891
citations

94433

37
h-index

22166

113
g-index

151
all docs

151
docs citations

151
times ranked

8222
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN 2008 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 533-572.	2.3	3,129
2	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 3-69.	2.3	2,840
3	The HITRAN2012 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 4-50.	2.3	2,810
4	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107949.	2.3	770
5	The 2015 edition of the GEISA spectroscopic database. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 31-72.	1.2	311
6	The 2009 edition of the GEISA spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2395-2445.	2.3	306
7	Virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2151-2159.	2.3	164
8	Evidence for a Polar Ethane Cloud on Titan. <i>Science</i> , 2006, 313, 1620-1622.	12.6	161
9	Global analysis of the high resolution infrared spectrum of methane 12CH_4 in the region from 0 to 4800cm^{-1} . <i>Chemical Physics</i> , 2009, 356, 131-146.	1.9	156
10	Symmetry-adapted tensorial formalism to model rovibrational and rovibronic spectra of molecules pertaining to various point groups. <i>Journal of Molecular Spectroscopy</i> , 2004, 228, 620-634.	1.2	140
11	Methane line parameters in the HITRAN2012 database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 201-219.	2.3	121
12	The virtual atomic and molecular data centre (VAMDC) consortium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 074003.	1.5	120
13	Applications of a new set of methane line parameters to the modeling of Titan's spectrum in the $1.58\frac{1}{4}\mu\text{m}$ window. <i>Planetary and Space Science</i> , 2012, 61, 85-98.	1.7	99
14	Titan's surface and atmosphere from Cassini/VIMS data with updated methane opacity. <i>Icarus</i> , 2013, 226, 470-486.	2.5	92
15	XTDS and SPVIEW: Graphical tools for the analysis and simulation of high-resolution molecular spectra. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 102-113.	1.2	87
16	MeCaSDa and ECaSDa: Methane and ethene calculated spectroscopic databases for the virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 62-68.	2.3	83
17	The vibrational levels of methane obtained from analyses of high-resolution spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 98, 394-404.	2.3	81
18	Titan's 3-micron spectral region from ISO high-resolution spectroscopy. <i>Icarus</i> , 2006, 180, 176-185.	2.5	74

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19	The 2020 edition of the GEISA spectroscopic database. <i>Journal of Molecular Spectroscopy</i> , 2021, 380, 111510.	1.2	74
20	High resolution spectroscopy and the first global analysis of the Tetradecad region of methane $^{12}\text{CH}_4$. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10071.	2.8	73
21	Performance of the AILES THz-Infrared beamline at SOLEIL for High resolution spectroscopy. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	70
22	Comparison of line-by-line and band models of near-IR methane absorption applied to outer planet atmospheres. <i>Icarus</i> , 2012, 218, 1-23.	2.5	64
23	The high-resolution far-infrared spectrum of methane at the SOLEIL synchrotron. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1117-1129.	2.3	58
24	Highly-spherical Top Data System (HTDS) software for spectrum simulation of octahedral XY_6 molecules. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 66, 1-16.	2.3	56
25	Orientation of $O(3)$ and $SU(2) \hat{\otimes} \text{Cl}$ representations in cubic point groups (O_h, T_d) for application to molecular spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2003, 219, 313-325.	1.2	56
26	New assignments in the $2\hat{1}\frac{1}{4}\mu\text{m}$ transparency window of the $^{12}\text{CH}_4$ Octad band system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 116, 101-109.	2.3	55
27	A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76.	1.6	53
28	Development of the Dipole Moment and Polarizability Operators of Octahedral Molecules. <i>Journal of Molecular Spectroscopy</i> , 1999, 197, 222-231.	1.2	52
29	Rotationally resolved infrared spectroscopy of adamantane. <i>Journal of Chemical Physics</i> , 2012, 136, 024310.	3.0	50
30	High-resolution spectroscopy and preliminary global analysis of $\text{C}\hat{\nu}\text{H}$ stretching vibrations of C_2H_4 in the 3000 and 6000cm^{-1} regions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2265-2278.	2.3	48
31	Analysis of the rovibrational spectrum of $^{13}\text{CH}_4$ in the Octad range. <i>Journal of Molecular Spectroscopy</i> , 2013, 291, 33-47.	1.2	48
32	Titan's surface albedo variations over a Titan season from near-infrared CFHT/FTS spectra. <i>Planetary and Space Science</i> , 2006, 54, 1225-1246.	1.7	47
33	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
34	Field-free one-dimensional alignment of ethylene molecule. <i>Physical Review A</i> , 2006, 73, .	2.5	44
35	Line positions and intensities in the band of ethylene near ν_2 : An experimental and theoretical study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 952-962.	2.3	44
36	Global Analysis of the Infrared Spectrum of $^{13}\text{CH}_4$: Lines in the Region 0 to 3200cm^{-1} . <i>Chimia</i> , 2008, 62, 273-276.	0.6	38

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37	Self- and air-broadened line shapes in the $2\frac{1}{2}3$ P and R branches of 12CH_4 . Journal of Molecular Spectroscopy, 2015, 315, 114-136.	1.2	37
38	Global analysis of the high temperature infrared emission spectrum of 12CH_4 in the dyad ($2\frac{1}{2}2$ / $2\frac{1}{2}4$) region. Journal of Chemical Physics, 2016, 144, 024312.	3.0	35
39	Total internal partition sums for the HITRAN2020 database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107713.	2.3	35
40	High-Resolution Jet-Cooled Spectroscopy of SF_6 : The $1\frac{1}{2}2+1\frac{1}{2}6$ Combination Band of 32SF_6 and the $1\frac{1}{2}3$ Band of the Rare Isotopomers. Journal of Molecular Spectroscopy, 1998, 192, 359-367.	1.2	32
41	High-Resolution Spectroscopy and Analysis of the $1\frac{1}{2}4$ Bending Region of SF_6 near 615 cm^{-1} . Journal of Molecular Spectroscopy, 2001, 205, 304-311.	1.2	28
42	Self-broadening coefficients and improved line intensities for the $1\frac{1}{2}7$ band of ethylene near $10.5\text{ }\mu\text{m}$. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 148, 177-185.	2.3	28
43	The partition sum of methane at high temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2697-2706.	2.3	27
44	Spectroscopy of X_2Y_4 (D_{2h}) molecules: tensorial formalism adapted to the $O(3)\times D_{2h}$ chain, Hamiltonian and transition moment operators. Journal of Molecular Spectroscopy, 2003, 217, 239-248.	1.2	25
45	High-resolution Raman spectroscopy of the $1\frac{1}{2}1$ region and Raman double resonance spectroscopy of the $2\frac{1}{2}1$ / $1\frac{1}{2}1$ band of 32SF_6 and 34SF_6 . Determination of the equilibrium bond length of sulfur hexafluoride. Journal of Molecular Spectroscopy, 2004, 228, 392-400.	1.2	25
46	Spectral line parameters including line shapes in the $2\frac{1}{2}3$ Q branch of 12CH_4 . Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 177, 152-169.	2.3	25
47	High-resolution spectroscopy and global analysis of CF_4 rovibrational bands to model its atmospheric absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 75-93.	2.3	25
48	Analysis of the Unusual Vibrational Components of Triply Degenerate Vibrational Mode $1\frac{1}{2}6$ of $\text{Mo}(\text{CO})_6$ Based on the Classical Interpretation of the Effective Rotation-Vibration Hamiltonian. Journal of Molecular Spectroscopy, 2000, 201, 95-108.	1.2	24
49	Simultaneous Analysis of the $1\frac{1}{2}2$ Raman and $1\frac{1}{2}2+1\frac{1}{2}6$ Infrared Spectra of the SF_6 Molecule. Journal of Molecular Spectroscopy, 2000, 201, 164-171.	1.2	24
50	VAMDC – The Virtual Atomic and Molecular Data Centre – A New Way to Disseminate Atomic and Molecular Data – VAMDC Level 1 Release. AIP Conference Proceedings, 2011, , .	0.4	24
51	Spectroscopic tools for remote sensing of greenhouse gases CH_4 , CF_4 and SF_6 . Environmental Chemistry Letters, 2003, 1, 86-91.	16.2	23
52	Quantifying methane vibrational and rotational temperature with Raman scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106562.	2.3	23
53	High-resolution spectroscopy and analysis of the $3/2/4$ dyad of CF_4 . Molecular Physics, 2011, 109, 2273-2290.	1.7	22
54	Spectroscopy of XY_2Z (C_{4v}) Molecules: Development of the Hamiltonian and the Transition Moment Operators Using a Tensorial Formalism. Journal of Molecular Spectroscopy, 2000, 200, 131-137.	1.2	21

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55	Spectroscopy of XY ₂ Z ₂ (C _{2v}) Molecules: A Tensorial Formalism Adapted to the O(3) \hat{A}_1 Td \hat{A}_1 C _{2v} Chain. Application to the Ground State of SO ₂ F ₂ . Journal of Molecular Spectroscopy, 2002, 216, 297-307.	1.2	21
56	Line broadening coefficient calculations for methane perturbed by nitrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1328-1343.	2.3	21
57	Line positions and intensities for the \hat{A}_1 / ₃ band of 5 isotopologues of germane for planetary applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 174-183.	2.3	20
58	First High-Resolution Raman Spectrum and Analysis of the \hat{A}_1 / ₅ Bending Fundamental of SF ₆ . Journal of Molecular Spectroscopy, 2002, 213, 139-144.	1.2	19
59	Strong thermal nonequilibrium in hypersonic CO and CH ₄ probed by CRDS. Journal of Chemical Physics, 2015, 142, 214305.	3.0	19
60	High-resolution infrared spectroscopy and analysis of the \hat{A}_1 / ₂ / \hat{A}_1 / ₂ bending dyad of ruthenium tetroxide. Journal of Molecular Spectroscopy, 2017, 336, 29-35.	1.2	19
61	The ground state rotational spectrum of SO ₂ F ₂ . Journal of Molecular Spectroscopy, 2003, 222, 172-179.	1.2	18
62	top data system (TDS) software for spectrum simulation of asymmetric molecules. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 521-538.	2.3	18
63	The 2- \hat{A}_1 / ₄ m spectroscopy of Huygens probe landing site on Titan with Very Large Telescope/Nasmyth Adaptive Optics System Near-Infrared Imager and Spectrograph. Journal of Geophysical Research, 2007, 112, .	3.3	18
64	Theoretical investigation of the potential energy surface of the van der Waals complex CH ₄ \hat{A}_1 “N ₂ . Journal of Chemical Physics, 2009, 131, 134304.	3.0	18
65	Mapping spectroscopic uncertainties into prospective methane retrieval errors from Sentinel-5 and its precursor. Atmospheric Measurement Techniques, 2015, 8, 3617-3629.	3.1	18
66	The high overtone and combination levels of SF ₆ revisited at Doppler-limited resolution: A global effective rovibrational model for highly excited vibrational states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 190, 38-47.	2.3	18
67	Spectroscopy of XY ₅ Z (C _{4v}) Molecules: A Tensorial Formalism Adapted to the O(3) \hat{A}_1 Oh \hat{A}_1 C _{4v} Chain. Journal of Molecular Spectroscopy, 2000, 200, 123-130.	1.2	17
68	Rotational-vibrational relative equilibria and the structure of quantum energy spectrum of the tetrahedral molecule P ₄ . European Physical Journal D, 2001, 17, 13-35.	1.3	17
69	New investigation of the $\langle i \rangle \hat{A}_1 / \langle i \rangle$ ₃ C \hat{A}_1 “H stretching region of 12CH ₄ through the analysis of high temperature infrared emission spectra. Journal of Chemical Physics, 2018, 148, 134306.	3.0	17
70	Study of the Fundamental Bands of 70GeD ₄ by High-Resolution Raman and Infrared Spectroscopy: First Experimental Determination of the Equilibrium Bond Length of Germane. Journal of Molecular Spectroscopy, 2002, 216, 408-418.	1.2	16
71	C _{4v} Top Data System (C _{4v} TDS) software for infrared spectrum simulation of XY ₅ Z symmetric molecules. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 74, 621-636.	2.3	16
72	Terahertz Rotational Spectroscopy of Greenhouse Gases Using Long Interaction Path-Lengths. Applied Sciences (Switzerland), 2021, 11, 1229.	2.5	16

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73	Calculated spectroscopic databases for the VAMDC portal: New molecules and improvements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107096.	2.3	16
74	High-resolution FTIR spectrum and analysis of the $\hat{1}\frac{1}{2} + \hat{1}\frac{1}{2}$ combination band of 32SF6. Journal of Molecular Spectroscopy, 2003, 222, 291-295.	1.2	15
75	Rotational Raman spectroscopy of ethylene using a femtosecond time-resolved pump-probe technique. Journal of Chemical Physics, 2005, 123, 154309.	3.0	15
76	High-resolution stimulated Raman spectroscopy and analysis of the $\langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 1 \langle /sub \rangle$, $2 \langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 1 \langle /sub \rangle \hat{e} \langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 1 \langle /sub \rangle$, $\langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 2 \langle /sub \rangle$, $2 \langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 2 \langle /sub \rangle$, and $3 \langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 2 \langle /sub \rangle \hat{e} \langle i \rangle \hat{1}\frac{1}{2} \langle /i \rangle \langle sub \rangle 2 \langle /sub \rangle$ bands of CF ₄ . Journal of Raman Spectroscopy, 2013, 44, 731-738.	2.5	15
77	Resolving the forbidden band of SF ₆ . Physical Chemistry Chemical Physics, 2014, 16, 1415-1423.	2.8	15
78	Rotationally resolved IR spectroscopy of hexamethylenetetramine (HMT) C ₆ N ₄ H ₁₂ . Astronomy and Astrophysics, 2014, 561, A109.	5.1	15
79	Tensorial development of the rovibronic Hamiltonian and transition moment operators for octahedral molecules. Journal of Molecular Structure, 2001, 599, 125-137.	3.6	14
80	The SO ₂ F ₂ quasi-spherical top: Correspondence between tensorial and Watson's formalisms. Journal of Molecular Structure, 2006, 780-781, 124-133.	3.6	14
81	High-resolution stimulated Raman spectroscopy and analysis of the $\hat{1}\frac{1}{2}, \hat{1}\frac{1}{2}$ and $2\hat{1}\frac{1}{2}$ bands of 34SF6. Molecular Physics, 2006, 104, 2653-2661.	1.7	13
82	Near-infrared radiative transfer modelling with different CH ₄ spectroscopic databases to retrieve atmospheric methane total amount. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2676-2682.	2.3	13
83	Self and N ₂ collisional broadening of far-infrared methane lines measured at the SOLEIL synchrotron. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1874-1886.	2.3	13
84	The VAMDC Portal as a Major Enabler of Atomic and Molecular Data Citation. Galaxies, 2018, 6, 105.	3.0	13
85	Spectroscopy of XY ₃ Z (C _{3v}) molecules: A tensorial formalism adapted to the O(3) $\hat{a} \hat{f} \hat{C} \hat{a} \hat{z} \hat{v} \hat{a} \hat{f} \hat{C} \hat{3} \hat{v}$ group chain. Journal of Molecular Spectroscopy, 2005, 234, 113-121.	1.2	12
86	High-resolution spectroscopy of difference and combination bands of SF ₆ to elucidate the $\hat{1}\frac{1}{2} \langle sub \rangle 3 \langle /sub \rangle + \hat{1}\frac{1}{2} \langle sub \rangle 1 \langle /sub \rangle \hat{a} \hat{1}\frac{1}{2} \langle sub \rangle 1 \langle /sub \rangle$ and $\hat{1}\frac{1}{2} \langle sub \rangle 3 \langle /sub \rangle + \hat{1}\frac{1}{2} \langle sub \rangle 2 \langle /sub \rangle \hat{a} \hat{1}\frac{1}{2} \langle sub \rangle 2 \langle /sub \rangle$ band structures in the $\hat{1}\frac{1}{2} \langle sub \rangle 3 \langle /sub \rangle$ region. Molecular Physics, 2014, 112, 2504-2514.	1.2	12
87	Spectral lines of methane measured up to 2.6 THz at sub-MHz accuracy with a CW-THz photomixing spectrometer: Line positions of rotational transitions induced by centrifugal distortion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 349-354.	2.3	12
88	top data system (TDS) software for infrared spectrum simulation of asymmetric molecules: some improvements to the TDS packages. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 93, 429-446.	2.3	11
89	Development of the Hamiltonian and transition moment operators of symmetric top molecules using the O(3) $\hat{a} \hat{f} \hat{C} \hat{a} \hat{z} \hat{v} \hat{a} \hat{f} \hat{C} \hat{3} \hat{v}$ group chain. Journal of Molecular Spectroscopy, 2005, 234, 176-181.	1.2	11
90	High-Resolution Spectroscopy and Structure of Osmium Tetroxide. A Benchmark Study on ¹⁹² OsO ₄ . Inorganic Chemistry, 2012, 51, 10356-10365.	4.0	11

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109	Line positions in the $v_6=1$ band of methyl iodide: Validation of the C3v TDS package based on the tensorial formalism. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 173, 13-19.	2.3	7
110	Vibration-rotation energy levels and corresponding eigenfunctions of 12CH4 up to the tetradecad. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 219, 85-104.	2.3	7
111	Breakdown of the reduction of the rovibrational Hamiltonian: The case of S18O2F2. <i>Journal of Molecular Spectroscopy</i> , 2009, 256, 232-237.	1.2	6
112	Experimental IR study and ab initio modelling of ethylene adsorption in a MFI-type host zeolite. <i>Molecular Physics</i> , 2009, 107, 2081-2093.	1.7	6
113	High-resolution spectroscopy and analysis of the stretching dyad of osmium tetroxide. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 119-127.	2.3	6
114	First analysis of the ν_2 combination band of SF6 observed at Doppler-limited resolution and effective model for the ν_2 band. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 37-42.	1.2	6
115	High enthalpy source dedicated to quantitative infrared emission spectroscopy of gas flows at elevated temperatures. <i>Review of Scientific Instruments</i> , 2019, 90, 093103.	1.3	6
116	High-resolution spectroscopy and analysis of the ν_2 , ν_3 and $2\nu_2$ bands of SiF4 in natural isotopic abundance. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107114.	2.3	6
117	Stark effect in X2Y4 molecules: Application to ethylene. <i>Journal of Molecular Structure</i> , 2006, 780-781, 70-79.	3.6	5
118	The bending triad of the quasi-spherical top molecule SO2F2 in the 550cm ⁻¹ region. <i>Journal of Molecular Spectroscopy</i> , 2006, 238, 145-157.	1.2	5
119	D2hTDS-ST software for Stark spectrum simulation of X2Y4 asymmetric-top molecules. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 41-52.	2.3	5
120	High-resolution stimulated Raman spectroscopy and analysis of the ν_2 stretching dyad of C2H4. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 590-596.	2.5	5
121	Infrared spectroscopy of ruthenium tetroxide and high-resolution analysis of the ν_2 band. <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 46-54.	1.2	5
122	Pure rotation spectrum of CF4 in the $v_3=1$ state using THz synchrotron radiation. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 43-46.	1.2	5
123	High-resolution stimulated Raman spectroscopy and analysis of the ν_2 band of osmium tetroxide. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 63-69.	2.5	4
124	Synchrotron-based Fourier transform spectra of the ν_2 band and ν_2 combination band of SF6. <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 37-40.	1.2	4
125	Combined synchrotron-based high resolution FTIR and IR-diode laser supersonic jet spectroscopy of the chiral molecule CDBrClF. <i>Journal of Molecular Spectroscopy</i> , 2017, 337, 105-123.	1.2	4
126	Analytical expression of tensorial rotational operators for semi-classical interpretation of molecular spectra. Relations between molecular Hamiltonian parameters in different formalisms. <i>Journal of Molecular Spectroscopy</i> , 2022, 385, 111602.	1.2	4

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127	Diode laser spectroscopy of the $\hat{1}/28$ band of the SF ₅ Cl molecule. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 3403-3412.	3.9	3
128	The hot bands of silane between 2120 and 2270cm ⁻¹ . Journal of Molecular Spectroscopy, 2005, 230, 117-124.	1.2	3
129	Jet-cooled FTIR spectroscopy and analysis of the C=O stretch fundamental of Ni(CO) ₄ . Molecular Physics, 2008, 106, 1135-1141.	1.7	3
130	22nd Colloquium on High Resolution Molecular Spectroscopy: Special Issue dedicated to Gianfranco Di Lonardo. Molecular Physics, 2011, 109, 2069-2070.	1.7	3
131	Isotopic relations for tetrahedral and octahedral molecules. Journal of Molecular Structure, 2020, 1206, 127729.	3.6	3
132	Comprehensive study of the pentad bending triad region of germane: Positions, strengths, widths and shifts of lines in the $\hat{1}/2$ band of germane. Journal of Molecular Spectroscopy, 2016, 325, 29-34.	2.3	3
133	Tran Nitrogen-Broadening Parameters for Atmospheric Spectra Modelling of the $\hat{1}/23$ Band of SF ₆ . Molecules, 2022, 27, 646.	3.8	3
134	Stark spectrum simulation for X ₂ Y ₄ molecules: Application to the $\hat{1}/212$ band of ethylene in a high-silica zeolite. Journal of Chemical Physics, 2012, 136, 134314.	3.0	2
135	Line position analysis of the $\hat{1}/2 2$ band of SO ₂ F ₂ using the C _{2v} Top Data System. Journal of Molecular Spectroscopy, 2016, 325, 29-34.	1.2	2
136	High-Resolution spectroscopy and analysis of the fundamental modes of Si ₂₈ F ₂₈ . Journal of Molecular Spectroscopy, 2016, 325, 29-34.	1.2	2
137	Twentieth Colloquium on High Resolution Molecular Spectroscopy. Molecular Physics, 2008, 106, 1125-1126.	1.7	1
138	High-resolution stimulated Raman spectroscopy and analysis of line positions and assignments for the $\hat{1}/2 2$ and $\hat{1}/2 3$ bands of ¹³ C ₂ H ₄ . Journal of Raman Spectroscopy, 2016, 47, 839-844.	2.5	1
139	Line position analysis of the $\hat{1}/2$ bending triad of SO ₂ . Journal of Molecular Spectroscopy, 2017, 339, 23-30.	1.2	1
140	Stimulated Raman spectroscopy of ¹³ CF ₄ . Journal of Molecular Spectroscopy, 2018, 348, 47-56.	1.2	1
141	High-resolution far-infrared synchrotron FTIR spectroscopy and analysis of the $\hat{1}/2 7$ band of germane. Journal of Molecular Spectroscopy, 2016, 325, 29-34.	1.2	1
142	Tensorial development of the rovibronic Hamiltonian and dipole moment operators for XY ₃ Z molecules with a degenerate electronic state: Preliminary application to the CH ₃ O radical. Journal of Molecular Spectroscopy, 2009, 253, 92-98.	1.2	0
143	Introduction to the special issue on molecular spectroscopy, atmospheric composition and climate change. Journal of Molecular Spectroscopy, 2018, 348, 1.	1.2	0
144	Conformational landscape of the SF ₆ dimer as revealed by various free jet conditions. AIP Conference Proceedings, 2019, . .	0.4	0

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145	Line positions and intensities in the $\hat{1}/2_2$ fundamental band of sulfuryl fluoride using the C2 top data system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 63-71.	2.3	0