

Luca Bizzocchi

List of Publications by Year in descending order

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153
papers

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#	ARTICLE	IF	CITATIONS
1	Ab Initio Study of Fine and Hyperfine Interactions in Triplet POH. <i>Molecules</i> , 2022, 27, 302. Synchrotron-based far-infrared spectroscopy of HC^3N	1.7	1
2	Extended ro-vibrational analysis and new line list up to 3360 cm^{-1}	1.1	1
3	Gas-phase identification of (<i>Z</i>)-1,2-ethenediol, a key prebiotic intermediate in the formose reaction. <i>Chemical Communications</i> , 2022, 58, 2750-2753.	2.2	14
4	SOLIS. <i>Astronomy and Astrophysics</i> , 2022, 662, A104.	2.1	5
5	Spectroscopic and Computational Characterization of 2-Aza-1,3-butadiene, a Molecule of Astrochemical Significance. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1881-1888.	1.1	2
6	H_2CS deuteration maps towards the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2022, 661, A111.	2.1	11
7	The Central 1000 au of a Prestellar Core Revealed with ALMA. II. Almost Complete Freeze-out. <i>Astrophysical Journal</i> , 2022, 929, 13.	1.6	34
8	Precursors of the RNA World in Space: Detection of (<i>Z</i>)-1,2-ethenediol in the Interstellar Medium, a Key Intermediate in Sugar Formation. <i>Astrophysical Journal Letters</i> , 2022, 929, L11.	3.0	43
9	An Interferometric View of H-MM1. I. Direct Observation of NH_3 Depletion. <i>Astronomical Journal</i> , 2022, 163, 294.	1.9	15
10	Spectroscopic Characterization of 3-Aminoisoxazole, a Prebiotic Precursor of Ribonucleotides. <i>Molecules</i> , 2022, 27, 3278.	1.7	2
11	Improved centrifugal and hyperfine analysis of ND ₂ H and NH ₂ D and its application to the spectral line survey of L1544. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111431.	0.4	7
12	High-Resolution Infrared Spectroscopy of DC ₃ N in the Stretching Region. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
13	Rotational spectroscopy of imidazole: Accurate spectroscopic information for three vibrationally excited states and the heavy-atom isotopologues up to 295 GHz . <i>Journal of Molecular Spectroscopy</i> , 2021, 378, 111452.	0.4	2
14	Hyperfine-Resolved Near-Infrared Spectra of H_2^{17}O . <i>Journal of Physical Chemistry A</i> , 2021, 125, 7884-7890.	1.1	11
15	LABORATORY SPECTROSCOPY OF ALLYLIMINE AND ITS TENTATIVE DETECTION IN THE INTERSTELLAR MEDIUM. , 2021, , .		0
16	IMPROVED CENTRIFUGAL AND HYPERFINE ANALYSIS OF ND ₂ H AND NH ₂ D AND ITS APPLICATION TO THE SPECTRAL LINE SURVEY OF L1544. , 2021, , .		0
17	THE SECOND RESONANCE SYSTEM OF HC^3N . NEW RO-VIBRATIONAL GLOBAL ANALYSIS FOR ALL THE EXCITED STATES BELOW 1300 cm^{-1} , 2021, , .		0
18	HIGH-RESOLUTION INFRARED SPECTROSCOPY OF DC ₃ N IN THE STRETCHING REGION. , 2021, , .		0

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19	LABORATORY SPECTROSCOPY FOR ASTROCHEMISTRY: A ROTATIONAL INVESTIGATION OF 3-AMINO-2-PROPENITRILE. , 2021, , .		0
20	An improved study of HCO ⁺ and He system: Interaction potential, collisional relaxation, and pressure broadening. Journal of Chemical Physics, 2021, 155, 234306.	1.2	5
21	Determination of a semi-experimental equilibrium structure of phosphine from millimeter-wave spectroscopy of CH_3 and CD_3 Journal of Molecular Structure, 2020, 1203, 127429	1.8	9
22	First detection of NHD and ND ₂ in the interstellar medium. Astronomy and Astrophysics, 2020, 641, A153.	2.1	17
23	Far-infrared laboratory spectroscopy of aminoacetonitrile and first interstellar detection of its vibrationally excited transitions. Astronomy and Astrophysics, 2020, 641, A160.	2.1	23
24	Seeds of Life in Space (SOLIS). Astronomy and Astrophysics, 2020, 635, A189.	2.1	2
25	Extensive ro-vibrational analysis of deuterated-cyanoacetylene (DC3N) from millimeter-wavelengths to the infrared domain. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107221.	1.1	3
26	Seeds of Life in Space (SOLIS). Astronomy and Astrophysics, 2020, 637, A63.	2.1	22
27	Propargylimine in the laboratory and in space: millimetre-wave spectroscopy and its first detection in the ISM. Astronomy and Astrophysics, 2020, 640, A98.	2.1	45
28	Efficient Methanol Production on the Dark Side of a Prestellar Core. Astrophysical Journal, 2020, 895, 101.	1.6	17
29	DC3N observations towards high-mass star-forming regions. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1990-1999.	1.6	9
30	The first steps of interstellar phosphorus chemistry. Astronomy and Astrophysics, 2020, 633, A54.	2.1	32
31	Molecular complexity in pre-stellar cores: a 3 mm-band study of L183 and L1544. Astronomy and Astrophysics, 2020, 633, A118.	2.1	21
32	First sample of N ₂ H ⁺ nitrogen isotopic ratio measurements in low-mass protostars. Astronomy and Astrophysics, 2020, 644, A29.	2.1	4
33	Submillimeter and Far-infrared Spectroscopy of Monodeuterated Amidogen Radical (NHD): Improved Rest Frequencies for Astrophysical Observations. Astrophysical Journal, Supplement Series, 2020, 247, 59.	3.0	3
34	SPECTRAL ANALYSIS OF IMIDAZOLE EXTENDED INTO THE MILLIMETER-WAVE REGION.. , 2020, , .		0
35	THz SPECTRA OF NHD AND ND ₂ : FROM LABORATORY TO ASTRONOMICAL DETECTIONS. , 2020, , .		0
36	Distribution of methanol and cyclopropenylidene around starless cores. Astronomy and Astrophysics, 2020, 643, A60.	2.1	15

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37	Disentangling the IR spectra of 2,3,3,3-tetrafluoropropene using an ab initio description of vibrational polyads by means of canonical Van Vleck perturbation theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 239, 106656.	1.1	3
38	Rotational spectroscopy of imidazole: improved rest frequencies for astrophysical searches. <i>Astronomy and Astrophysics</i> , 2019, 628, A53.	2.1	10
39	High-sensitivity maps of molecular ions in L1544. <i>Astronomy and Astrophysics</i> , 2019, 629, A15.	2.1	46
40	The rotational spectrum of ^{15}ND . Isotopic-independent Dunham-type analysis of the imidogen radical. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3564-3573.	1.3	21
41	Why does ammonia not freeze out in the centre of pre-stellar cores?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1269-1282.	1.6	33
42	Collisional excitation of $\text{NH}(3\hat{1}\hat{a}^{\sim})$ by Ar: A new ab initio 3D potential energy surface and scattering calculations. <i>Journal of Chemical Physics</i> , 2019, 150, 214302.	1.2	5
43	First interferometric study of enhanced N-fractionation in N_2H^+ : the high-mass star-forming region IRAS 05358+3543. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5543-5558.	1.6	19
44	Dust opacity variations in the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2019, 623, A118.	2.1	29
45	Mapping deuterated methanol toward L1544. <i>Astronomy and Astrophysics</i> , 2019, 622, A141.	2.1	32
46	Rotational spectroscopy of the HCCO and DCCO radicals in the millimeter and submillimeter range. <i>Astronomy and Astrophysics</i> , 2019, 621, A111.	2.1	6
47	High resolution rotational spectroscopy of elusive molecules at the Center for Astrochemical Studies (CAS@MPE). <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 375-376.	0.0	0
48	Towards the first radio galaxies. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 353-355.	0.0	0
49	The chemical structure of the very young starless core L1521E. <i>Astronomy and Astrophysics</i> , 2019, 630, A136.	2.1	22
50	The pure rotational spectrum of $^{15}\text{ND}_2$ observed by millimetre and submillimetre-wave spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 222-223, 186-189.	1.1	21
51	Seeds of Life in Space (SOLIS). III. Zooming Into the Methanol Peak of the Prestellar Core L1544*. <i>Astrophysical Journal</i> , 2018, 855, 112.	1.6	28
52	The Dual Role of Starbursts and Active Galactic Nuclei in Driving Extreme Molecular Outflows. <i>Astrophysical Journal</i> , 2018, 859, 35.	1.6	24
53	Nitrogen and hydrogen fractionation in high-mass star-forming cores from observations of HCN and HNC. <i>Astronomy and Astrophysics</i> , 2018, 609, A129.	2.1	35
54	Accurate millimetre and submillimetre rest frequencies for cis- and trans-dithioformic acid, HCSSH. <i>Astronomy and Astrophysics</i> , 2018, 612, A56.	2.1	5

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55	Accurate rest frequencies for propargylamine in the ground and low-lying vibrational states. <i>Astronomy and Astrophysics</i> , 2018, 615, A176.	2.1	10
56	$^{14}\text{N}/^{15}\text{N}$ ratio measurements in prestellar cores with N_2H^+ : new evidence of ^{15}N -antifractionation. <i>Astronomy and Astrophysics</i> , 2018, 617, A7.	2.1	29
57	Kinematics of dense gas in the L1495 filament. <i>Astronomy and Astrophysics</i> , 2018, 617, A27.	2.1	26
58	Accurate Laboratory Measurement of the Complete Fine Structure of the NH Transition of ^{15}NH . <i>Astrophysical Journal</i> , 2018, 863, 3.	1.6	4
59	A Study of the $\text{c-C}_3\text{HD}/\text{c-C}_3\text{H}_2$ Ratio in Low-mass Star-forming Regions*. <i>Astrophysical Journal</i> , 2018, 863, 126.	1.6	20
60	O_2 signature in thin and thick O_2H_2 ices. <i>Astronomy and Astrophysics</i> , 2018, 620, A46.	2.1	9
61	Bulgeless galaxies in the COSMOS field: environment and star formation evolution at $z \lesssim 1$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 735-747.	1.6	8
62	What is in a radio loud NLS1?. , 2018, , .		0
63	HSCO+ and DSCO+: a multi-technique approach in the laboratory for the spectroscopy of interstellar ions. <i>Astronomy and Astrophysics</i> , 2018, 620, A184.	2.1	1
64	Doubly ^{15}N -substituted diazenylium: THz laboratory spectra and fractionation models. <i>Astronomy and Astrophysics</i> , 2017, 604, A26.	2.1	6
65	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2017, 605, A57.	2.1	54
66	Rotational and High-resolution Infrared Spectrum of HC_3N : Global Ro-vibrational Analysis and Improved Line Catalog for Astrophysical Observations. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 11.	3.0	22
67	Seeds Of Life In Space (SOLIS): The Organic Composition Diversity at 300–1000 au Scale in Solar-type Star-forming Regions*. <i>Astrophysical Journal</i> , 2017, 850, 176.	1.6	116
68	Seeds of Life in Space (SOLIS). <i>Astronomy and Astrophysics</i> , 2017, 605, L3.	2.1	98
69	The observed chemical structure of L1544. <i>Astronomy and Astrophysics</i> , 2017, 606, A82.	2.1	60
70	Search for grain growth toward the center of L1544. <i>Astronomy and Astrophysics</i> , 2017, 606, A142.	2.1	18
71	Accurate sub-millimetre rest frequencies for HOCO^+ and DOCO^+ ions. <i>Astronomy and Astrophysics</i> , 2017, 602, A34.	2.1	62
72	$\text{NH}_3(1_0_0 \leftarrow 0_0_0)$ in the pre-stellar core L1544. <i>Astronomy and Astrophysics</i> , 2017, 603, L1.	2.1	28

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73	A PRESTELLAR CORE 3MM LINE SURVEY: MOLECULAR COMPLEXITY IN L183. , 2017, , .		0
74	TheHerschelVirgo Cluster Survey. Astronomy and Astrophysics, 2016, 589, A11.	2.1	11
75	Star-forming dwarf galaxies in the Virgo cluster: the link between molecular gas, atomic gas, and dust. Astronomy and Astrophysics, 2016, 590, A27.	2.1	29
76	Chemical differentiation in a prestellar core traces non-uniform illumination. Astronomy and Astrophysics, 2016, 592, L11.	2.1	66
77	A study of the C ₃ H ₂ isomers and isotopologues: first interstellar detection of HDCCC. Astronomy and Astrophysics, 2016, 586, A110.	2.1	29
78	FIRST LABORATORY MEASUREMENT OF THE $\tilde{J}=1\tilde{K}=0$ TRANSITIONS OF ³⁶ ArH ⁺ AND ³⁸ ArH ⁺ : NEW, IMPROVED REST FREQUENCIES FOR ASTRONOMICAL SEARCHES. Astrophysical Journal Letters, 2016, 820, L26.	3.0	9
79	The high-resolution infrared spectrum of fully deuterated diacetylene below 1000 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 12-21.	1.1	1
80	TheHerschelVirgo Cluster Survey. Astronomy and Astrophysics, 2015, 573, A129.	2.1	14
81	TheHerschelVirgo Cluster Survey. Astronomy and Astrophysics, 2015, 574, A126.	2.1	22
82	FIRST MEASUREMENTS OF ¹⁵ N FRACTIONATION IN N ₂ H ⁺ TOWARD HIGH-MASS STAR-FORMING CORES. Astrophysical Journal Letters, 2015, 808, L46.	3.0	37
83	The Born–Oppenheimer equilibrium bond distance of GeO from millimetre- and submillimetre-wave spectra and quantum-chemical calculations. Molecular Physics, 2015, 113, 801-807.	0.8	4
84	Accurate rest-frequencies of ketenimine (CH ₂ CNH) at submillimetre wavelength. Astronomy and Astrophysics, 2014, 565, A66.	2.1	8
85	BULGELESS GALAXIES AT INTERMEDIATE REDSHIFT: SAMPLE SELECTION, COLOR PROPERTIES, AND THE EXISTENCE OF POWERFUL ACTIVE GALACTIC NUCLEI. Astrophysical Journal, 2014, 782, 22.	1.6	12
86	Deuterated methanol in the pre-stellar core L1544. Astronomy and Astrophysics, 2014, 569, A27.	2.1	81
87	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	1.1	2,810
88	INTERSTELLAR DETECTION OF c-C ₃ D ₂ . Astrophysical Journal Letters, 2013, 769, L19.	3.0	50
89	Rotational Spectroscopy of Isotopologues of Silicon Monoxide, SiO, and Spectroscopic Parameters from a Combined Fit of Rotational and Rovibrational Data. Journal of Physical Chemistry A, 2013, 117, 13843-13854.	1.1	32
90	The high-resolution infrared spectrum of DC4H from 450 to 1100 cm ⁻¹ : Overtone, combination, and hot bands. Journal of Chemical Physics, 2013, 139, 154308.	1.2	1

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91	Accurate ro-vibrational rest frequencies of DC4H at infrared and millimetre wavelengths. <i>Astronomy and Astrophysics</i> , 2013, 549, A38.	2.1	2
92	Detection of $^{15}\text{NNH}^+$ in L1544: non-LTE modelling of dyazenilium hyperfine line emission and accurate $^{14}\text{N}/^{15}\text{N}$ values. <i>Astronomy and Astrophysics</i> , 2013, 555, A109.	2.1	56
93	The Spitzer Extragalactic Representative Volume Survey (SERVS): Survey Definition and Goals*. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 714-736.	1.0	135
94	Accurate rotational rest-frequencies of CH_2NH at submillimetre wavelengths. <i>Astronomy and Astrophysics</i> , 2012, 544, A19.	2.1	22
95	High-resolution infrared spectroscopy of diacetylene below 1000 cm^{-1} . <i>Molecular Physics</i> , 2011, 109, 2181-2190.	0.8	8
96	The rotational spectra, potential function, Born-Oppenheimer breakdown, and hyperfine structure of GeSe and GeTe. <i>Journal of Chemical Physics</i> , 2011, 135, 084303.	1.2	11
97	ULTRA STEEP SPECTRUM RADIO SOURCES IN THE LOCKMAN HOLE: SERVS IDENTIFICATIONS AND REDSHIFT DISTRIBUTION AT THE FAINTEST RADIO FLUXES. <i>Astrophysical Journal</i> , 2011, 743, 122.	1.6	22
98	Fine and hyperfine structure of the transition of ND in vibrational excited states. <i>Molecular Physics</i> , 2011, 109, 2191-2198.	0.8	5
99	The magnetic hyperfine structure in the rotational spectrum of H_2CNH . <i>Journal of Molecular Spectroscopy</i> , 2010, 263, 44-50.	0.4	18
100	Detection of $^{15}\text{NNH}^+$ in L1544. <i>Astronomy and Astrophysics</i> , 2010, 510, L5.	2.1	17
101	Submillimetre-wave spectrum of diacetylene and diacetylene-d2. <i>Molecular Physics</i> , 2010, 108, 2315-2323.	0.8	6
102	Accurate rest frequencies for the submillimetre-wave lines of ^{15}N -containing isotopologues of N_2H^+ and N_2D^+ . <i>Astronomy and Astrophysics</i> , 2009, 496, 275-279.	2.1	20
103	Millimeter-wave spectroscopy of deuterated hydrogen sulfide, SH_2D^+ . <i>Journal of Molecular Spectroscopy</i> , 2009, 254, 33-38.	0.4	1
104	Submillimetre-wave spectrum, ^{14}N -hyperfine structure, and dipole moment of cyclopropyl cyanide. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 138-144.	0.4	3
105	Rotational spectra, potential function, Born-Oppenheimer breakdown and magnetic shielding of SiSe and SiTe. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 261-267.	0.4	20
106	Millimetre-wave spectroscopy of in ground and excited vibrational states. <i>Chemical Physics</i> , 2008, 346, 139-145.	0.9	2
107	The Radiative Decay of Green and Red Photoluminescent Phosphors: An Undergraduate Kinetics Experiment for Materials Chemistry. <i>Journal of Chemical Education</i> , 2008, 85, 839.	1.1	5
108	Sub-Doppler millimetre-wave spectroscopy of DBS and HBS: accurate values of nuclear electric and magnetic hyperfine structure constants. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 658-665.	1.3	4

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109	Pure rotational spectra of PbSe and PbTe: potential function, Born-Oppenheimer breakdown, field shift effect and magnetic shielding. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2078.	1.3	15
110	Accurate rest frequencies for the submillimetre-wave lines of C ₃ O in ground and vibrationally excited states below 400 cm ⁻¹ . <i>Astronomy and Astrophysics</i> , 2008, 492, 875-881.	2.1	8
111	The rotational spectra, potential function, Born-Oppenheimer breakdown, and magnetic shielding of SnSe and SnTe. <i>Journal of Chemical Physics</i> , 2007, 126, 114305.	1.2	16
112	Improved Rest Frequencies of HCO ⁺ at 1 THz. <i>Astrophysical Journal</i> , 2007, 669, L113-L116.	1.6	23
113	Rotational spectroscopy of the isotopic species of silicon monosulfide, SiS. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1579-1586.	1.3	50
114	Absorption and Emission Spectroscopy of a Lasing Material: Ruby. <i>Journal of Chemical Education</i> , 2007, 84, 1316.	1.1	19
115	Hyperfine constants, nuclear magnetic shielding and spin-spin coupling parameters for AgI and CuI. <i>Journal of Molecular Structure</i> , 2007, 833, 175-183.	1.8	6
116	Millimeter- and submillimeter-wave spectroscopy of HBS and DBS in vibrationally excited states. <i>Journal of Molecular Spectroscopy</i> , 2007, 241, 67-74.	0.4	8
117	Millimetre-wave spectroscopy and ab initio calculations for fluorophosphaethyne (FCP). <i>Molecular Physics</i> , 2006, 104, 2627-2640.	0.8	11
118	Improved rest frequencies for the submillimetre-wave spectrum of SiN. <i>Astronomy and Astrophysics</i> , 2006, 455, 1161-1164.	2.1	8
119	Vibrationally excited states of DC5N: Millimeter-wave spectroscopy and coupled cluster calculations. <i>Journal of Molecular Structure</i> , 2006, 780-781, 148-156.	1.8	8
120	Millimeter and submillimeter-wave spectroscopy of silicon difluoride. <i>Journal of Molecular Spectroscopy</i> , 2006, 235, 117-124.	0.4	6
121	Millimeter-wave spectroscopy of and its symmetric isotopologues: Determination of the molecular structure of the sulfonium ion. <i>Journal of Molecular Spectroscopy</i> , 2006, 240, 202-209.	0.4	9
122	Vibrationally excited states of HC5N: millimeter-wave spectroscopy and coupled cluster calculations. <i>Journal of Molecular Spectroscopy</i> , 2005, 230, 185-195.	0.4	27
123	Lamb-dip millimeter-wave spectroscopy of HCP: Experimental and theoretical determination of ³¹ P nuclear spin-rotation coupling constant and magnetic shielding. <i>Chemical Physics Letters</i> , 2005, 408, 13-18.	1.2	18
124	Millimeter-wave spectroscopy of HC5N in vibrationally excited states below 500 cm ⁻¹ . <i>Astronomy and Astrophysics</i> , 2004, 425, 767-772.	2.1	15
125	Millimeter-wave spectroscopy of rare isotopomers of HC5N and DC5N: determination of a mixed experimental-theoretical equilibrium structure for cyanobutadiyne. <i>Journal of Molecular Spectroscopy</i> , 2004, 225, 145-151.	0.4	40
126	Vibrationally excited states of NC4P: millimetre-wave spectroscopy and coupled cluster calculations. Electronic supplementary information (ESI) available: Experimental frequencies and least-squares residuals (in MHz) for seven vibrational states of NC4P. See http://www.rsc.org/suppdata/cp/b3/b311745f/ . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 46.	1.3	6

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127	Laboratory Transition Frequencies for Millimeter-Wave Lines of Vibrationally Excited HC7N. <i>Astrophysical Journal</i> , 2004, 614, 518-524.	1.6	16
128	Accurate quartic and sextic centrifugal distortion constants of. <i>Journal of Molecular Spectroscopy</i> , 2003, 218, 53-57.	0.4	12
129	Pyrolysis of ortho-cyanotoluene and PCI3 mixtures: the millimeter and submillimeter-wave spectrum of NCCCCP. <i>Journal of Molecular Spectroscopy</i> , 2003, 221, 186-191.	0.4	9
130	Fourier transform infrared spectroscopy of the $2^{1/2}3$ overtone band of different ICN isotopomers: an improved evaluation of the anharmonic force field of cyanogen iodide. <i>Journal of Molecular Spectroscopy</i> , 2003, 221, 213-220.	0.4	3
131	Vibrationally excited states of HC5P: millimetre-wave spectroscopy and coupled cluster calculations Electronic supplementary information (ESI) available: Theoretical force constants, measured transition frequencies and least-squares residuals. See http://www.rsc.org/suppdata/cp/b3/b307069g/ . <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4090.	1.3	7
132	Millimeter-wave spectroscopy and coupled cluster calculations for a new phosphorus-carbon chain: HC5P. <i>Journal of Chemical Physics</i> , 2003, 119, 170-175.	1.2	19
133	Millimeter-Wave Spectroscopy of ClBS: An Improved Evaluation of the Equilibrium Structure of Chlorothioborine. <i>Journal of Molecular Spectroscopy</i> , 2002, 216, 177-190.	0.4	8
134	Rotational Spectroscopy of HB33S: The Quadrupole Coupling Constant of 33S in Thioborine. <i>Journal of Molecular Spectroscopy</i> , 2002, 215, 228-233.	0.4	7
135	Rotational spectroscopy of C-cyanophosphaethyne, NCCP, in states of multiple vibrational excitation. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3490-3498.	1.3	6
136	Submillimeter-Wave Spectroscopy of Phosphaalkynes: HCCCCP, NCCP, HCP, and DCP. <i>Journal of Molecular Spectroscopy</i> , 2001, 205, 110-116.	0.4	32
137	Millimeter-Wave Spectroscopy of HCCCCP in Excited Vibrational States. <i>Journal of Molecular Spectroscopy</i> , 2001, 205, 164-172.	0.4	15
138	Pyrolysis of sulfur tetrafluoride over boron: Excited-state rotational spectra and equilibrium structure of fluorothioborine (FBS). <i>Journal of Chemical Physics</i> , 2001, 115, 7041-7050.	1.2	23
139	FTIR spectroscopy of the $2\nu_3$ overtone band for different BrCN isotopomers: an improved evaluation of the anharmonic force field of cyanogen bromide. <i>Molecular Physics</i> , 2000, 98, 505-511.	0.8	6
140	High-Resolution Infrared Spectrum of BrCN in the $\hat{1}^{1/2}2$ and $\hat{1}^{1/2}1/2\hat{1}^{1/2}2$ Regions. <i>Journal of Molecular Spectroscopy</i> , 2000, 199, 109-115.	0.4	4
141	Millimeter-Wave Spectroscopy of Sulfur Dichloride. <i>Journal of Molecular Spectroscopy</i> , 2000, 204, 275-280.	0.4	12
142	Millimeter-wave spectroscopy of HC3P isotopomers and coupled-cluster calculations: the molecular structure of phosphabutadiyne. <i>Chemical Physics Letters</i> , 2000, 319, 411-417.	1.2	28
143	The Submillimeter-wave Spectrum of Propyne, CH ₃ CCH. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2000, 55, 491-494.	0.7	15
144	Millimeter-wave spectroscopy and coupled cluster calculations for NCCP. <i>Journal of Chemical Physics</i> , 2000, 113, 1465-1472.	1.2	30

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145	Detection of perturbation-allowed $\hat{J}=2$ transitions in the millimetre-wave spectrum of $^{81}\text{BrNO}$. <i>Chemical Physics Letters</i> , 1998, 293, 441-447.	1.2	4
146	Centrifugal Distortion Analysis of the Millimeter-Wave Spectrum of 1,1,1,2-Tetrafluoroethane. <i>Journal of Molecular Spectroscopy</i> , 1998, 188, 251-252.	0.4	5
147	Diode Laser and FTIR Spectroscopy of BrCN Isotopomers in the Region of the $\hat{J}=2$ Band. <i>Journal of Molecular Spectroscopy</i> , 1998, 189, 264-269.	0.4	3
148	An improved evaluation of the equilibrium structure of cyanogen iodide. <i>Journal of Molecular Structure</i> , 1998, 443, 211-222.	1.8	13
149	Millimetre wave and diode laser spectroscopy of $^{13}\text{C}^{15}\text{N}$: anharmonic force field of cyanogen iodide from spectroscopic data and ab initio calculations. <i>Molecular Physics</i> , 1998, 93, 95-106.	0.8	4
150	Millimeter-Wave and Diode Laser Spectroscopy of $^{13}\text{C}^{15}\text{N}$: Analysis of the $\hat{J}=2$ Band System. <i>Journal of Molecular Spectroscopy</i> , 1997, 182, 98-112.	0.4	5
151	Conformational stability of cyclopropanecarboxaldehyde is ruled by vibrational effects. <i>Molecular Physics</i> , 0, , e1955988.	0.8	2
152	Dipolar spin-spin coupling as auxiliary tool for structure determination of small isolated molecules. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	0
153	Molecular Precursors of the RNA-World in Space: New Nitriles in the G+0.693 \hat{a} ~0.027 Molecular Cloud. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	1.1	12