

Holger Mueller

List of Publications by Year in descending order

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172
papers

9,894
citations

41344

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times ranked

3506
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#	ARTICLE	IF	CITATIONS
1	The Cologne Database for Molecular Spectroscopy, CDMS: a useful tool for astronomers and spectroscopists. <i>Journal of Molecular Structure</i> , 2005, 742, 215-227.	3.6	1,496
2	The Cologne Database for Molecular Spectroscopy, CDMS. <i>Astronomy and Astrophysics</i> , 2001, 370, L49-L52.	5.1	958
3	The Cologne Database for Molecular Spectroscopy, CDMS, in the Virtual Atomic and Molecular Data Centre, VAMDC. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 95-104.	1.2	498
4	Complex organic molecules in the interstellar medium: IRAM 30 m line survey of Sagittarius B2(N) and (M). <i>Astronomy and Astrophysics</i> , 2013, 559, A47.	5.1	310
5	The ALMA Protostellar Interferometric Line Survey (PILS). <i>Astronomy and Astrophysics</i> , 2016, 595, A117.	5.1	267
6	Detection of amino acetonitrile in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2008, 482, 179-196.	5.1	232
7	Increased complexity in interstellar chemistry: detection and chemical modeling of ethyl formate and <i>n</i> -propyl cyanide in Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2009, 499, 215-232.	5.1	218
8	Detection of a branched alkyl molecule in the interstellar medium: <i>iso</i> -propyl cyanide. <i>Science</i> , 2014, 345, 1584-1587.	12.6	205
9	Exploring molecular complexity with ALMA (EMoCA): Deuterated complex organic molecules in Sagittarius B2(N2). <i>Astronomy and Astrophysics</i> , 2016, 587, A91.	5.1	149
10	Triply deuterated ammonia in NGC 1333. <i>Astronomy and Astrophysics</i> , 2002, 388, L53-L56.	5.1	127
11	Ubiquitous argonium (ArH ⁺) in the diffuse interstellar medium: A molecular tracer of almost purely atomic gas. <i>Astronomy and Astrophysics</i> , 2014, 566, A29.	5.1	124
12	The ALMA-PILS survey: isotopic composition of oxygen-containing complex organic molecules toward IRAS 16293-2422B. <i>Astronomy and Astrophysics</i> , 2018, 620, A170.	5.1	124
13	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea. <i>Astronomy and Astrophysics</i> , 2019, 628, A10.	5.1	117
14	Rotational spectroscopy, tentative interstellar detection, and chemical modeling of N-methylformamide. <i>Astronomy and Astrophysics</i> , 2017, 601, A49.	5.1	116
15	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The present and future of spectral surveys with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L20.	5.1	110
16	The ALMA-PILS survey: First detections of deuterated formamide and deuterated isocyanic acid in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2016, 590, L6.	5.1	106
17	Submillimeter absorption from SH ⁺ , a new widespread interstellar radical, ¹³ CH ⁺ and HCl. <i>Astronomy and Astrophysics</i> , 2011, 525, A77.	5.1	101
18	Accurate rest frequencies of methanol maser and dark cloud lines. <i>Astronomy and Astrophysics</i> , 2004, 428, 1019-1026.	5.1	89

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19	Excited OH ⁺ , H ₂ O ⁺ , and H ₃ O ⁺ in NGC 4418 and Arp 220. <i>Astronomy and Astrophysics</i> , 2013, 550, A25.	5.1	89
20	The ALMA-PILS survey: First detections of ethylene oxide, acetone and propanal toward the low-mass protostar IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2017, 597, A53.	5.1	89
21	Circumstellar molecular composition of the oxygen-rich AGB star IK Tauri. <i>Astronomy and Astrophysics</i> , 2010, 516, A69.	5.1	88
22	The ALMA-PILS survey: inventory of complex organic molecules towards IRAS 16293-2422 A. <i>Astronomy and Astrophysics</i> , 2020, 635, A48.	5.1	87
23	Accurate rotational spectroscopy of sulfur dioxide, SO ₂ , in its ground vibrational and first excited bending states, v ₂ =0, 1, up to 2THz. <i>Journal of Molecular Spectroscopy</i> , 2005, 232, 213-222.	1.2	85
24	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H ₂ Cl ⁺). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	5.1	83
25	The ALMA-PILS survey: detection of CH ₃ NCO towards the low-mass protostar IRAS 16293-2422 and laboratory constraints on its formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2219-2229.	4.4	83
26	Detection of interstellar oxidaniumyl: Abundant H ₂ O ⁺ towards the star-forming regions DR21, Sgr B2, and NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 518, L111.	5.1	78
27	Discovery of interstellar CF ⁺ . <i>Astronomy and Astrophysics</i> , 2006, 454, L37-L40.	5.1	78
28	The ALMA-PILS survey: complex nitriles towards IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2018, 616, A90.	5.1	77
29	Pure rotational spectra of TiO and TiO ₂ in VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2013, 551, A113.	5.1	73
30	A high-resolution line survey of IRC +10216 with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L8.	5.1	68
31	The complex chemistry of hot cores in Sgr B2(N): influence of cosmic-ray ionization and thermal history. <i>Astronomy and Astrophysics</i> , 2019, 628, A27.	5.1	68
32	The Rotational Spectra, Isotopically Independent Parameters, and Interatomic Potentials for the X ¹ ₂ ³ / ₂ and X ² ₂ ¹ / ₂ States of BrO. <i>Journal of Molecular Spectroscopy</i> , 2001, 205, 128-138.	1.2	67
33	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2012, 543, A145.	5.1	66
34	Exploring molecular complexity with ALMA (EMoCA): Simulations of branched carbon-chain chemistry in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2017, 601, A48.	5.1	64
35	Rotational spectroscopy of isotopic vinyl cyanide, H ₂ CCHCN, in the laboratory and in space. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 319-325.	1.2	63
36	A Spectral Line Survey in the 2 and 1.3 mm Windows toward the Carbon-rich Envelope of IRC +10216. <i>Astrophysical Journal, Supplement Series</i> , 2008, 177, 275-325.	7.7	62

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37	Excited vibrational level rotational constants for SiC ₂ : A sensitive molecular diagnostic for astrophysical conditions. <i>Molecular Astrophysics</i> , 2015, 1, 13-19.	1.6	60
38	On the physical structure of IRC+10216. <i>Astronomy and Astrophysics</i> , 2012, 539, A108.	5.1	59
39	The physical and chemical structure of Sagittarius B2. <i>Astronomy and Astrophysics</i> , 2017, 604, A6.	5.1	59
40	The ALMA-PILS Survey: Formaldehyde deuteration in warm gas on small scales toward IRAS 16293-2422 B. <i>Astronomy and Astrophysics</i> , 2018, 610, A54.	5.1	58
41	<i>Herschel</i> /HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C. <i>Astronomy and Astrophysics</i> , 2010, 521, L26.	5.1	57
42	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020, 369, 1497-1500.	12.6	57
43	C ₂ H in prestellar cores. <i>Astronomy and Astrophysics</i> , 2009, 505, 1199-1211.	5.1	56
44	Exploring molecular complexity with ALMA (EMoCA): Detection of three new hot cores in Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2017, 604, A60.	5.1	56
45	An observational study of dust nucleation in Mira (oCeti). <i>Astronomy and Astrophysics</i> , 2016, 592, A42.	5.1	53
46	A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76.	1.6	53
47	Complex organic molecules in low-mass protostars on Solar System scales. <i>Astronomy and Astrophysics</i> , 2020, 639, A87.	5.1	51
48	Rotational spectroscopy of the isotopic species of silicon monosulfide, SiS. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1579-1586.	2.8	50
49	Dimethyl ether: laboratory spectra up to 2.1 THz. <i>Astronomy and Astrophysics</i> , 2009, 504, 635-640.	5.1	50
50	High accuracy measurements on the ground state rotational spectrum of formaldehyde (H ₂ CO) up to 2 THz Electronic supplementary information (ESI) available: Newly measured pure rotational transitions. See http://www.rsc.org/suppdata/cp/b3/b301657a/ . <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1515-1518.	2.8	49
51	Hyperfine structure in the $J=1 \leftarrow 0$ transitions of DCO ⁺ , DNC, and HN ¹³ C: astronomical observations and quantum-chemical calculations. <i>Astronomy and Astrophysics</i> , 2009, 507, 347-354.	5.1	49
52	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards Orion-KL. <i>Astronomy and Astrophysics</i> , 2010, 518, L109.	5.1	48
53	The Rotational Spectrum of TiO ₂ . <i>Astrophysical Journal</i> , 2008, 676, 1367-1371.	4.5	45
54	Rotational spectra of isotopic species of methyl cyanide, CH ₃ CN, in their ground vibrational states up to terahertz frequencies. <i>Astronomy and Astrophysics</i> , 2009, 506, 1487-1499.	5.1	45

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73	Measurement and analysis of new terahertz and far-infrared spectra of high temperature water. <i>Journal of Molecular Spectroscopy</i> , 2012, 279, 16-25.	1.2	32
74	Complex organic molecules in diffuse clouds along the line of sight to Sagittarius B2. <i>Astronomy and Astrophysics</i> , 2017, 605, L6.	5.1	32
75	The physical and chemical structure of Sagittarius B2. <i>Astronomy and Astrophysics</i> , 2019, 628, A6.	5.1	32
76	The ALMA-PILS survey: first detection of methyl isocyanide (CH ₃ NC) in a solar-type protostar. <i>Astronomy and Astrophysics</i> , 2018, 617, A95.	5.1	31
77	The rotational spectrum up to 1 THz and the molecular structure of thiomethylum, HCS ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2770-2773.	2.8	30
78	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Observations of H ₂ O and its isotopologues towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L27.	5.1	29
79	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The Terahertz spectrum of Orion KL seen at high spectral resolution. <i>Astronomy and Astrophysics</i> , 2010, 521, L21.	5.1	29
80	A study of the C ₃ H ₂ isomers and isotopologues: first interstellar detection of HDCCC. <i>Astronomy and Astrophysics</i> , 2016, 586, A110.	5.1	29
81	Laboratory spectroscopic study of isotopic thioformaldehyde, H ₂ CS, and determination of its equilibrium structure. <i>Astronomy and Astrophysics</i> , 2019, 621, A143.	5.1	29
82	Spectroscopic parameters and rest frequencies of isotopic methylidyne, CH ⁺ . <i>Astronomy and Astrophysics</i> , 2010, 514, L6.	5.1	29
83	Multispectrum analysis of the $\hat{1}/24$ band of CH ₃ CN: Positions, intensities, self- and N ₂ -broadening, and pressure-induced shifts. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 974-994.	2.3	28
84	An observational study of dust nucleation in Mira (α Ceti). <i>Astronomy and Astrophysics</i> , 2017, 599, A59.	5.1	28
85	The ALMA-PILS survey: first detection of the unsaturated 3-carbon molecules Propenal (C ₂ H ₃ CHO) and Propylene (C ₃ H ₆) towards IRAS 16293-2422 B. <i>Astronomy and Astrophysics</i> , 2021, 645, A53.	5.1	28
86	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. <i>Astronomy and Astrophysics</i> , 2010, 521, L14.	5.1	27
87	Terahertz spectroscopy of oxygen, O ₂ , in its $3\hat{1}^g$ and $1\hat{1}^g$ electronic states. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1167-1173.	2.3	27
88	The ALMA-PILS survey: gas dynamics in IRAS 16293-2422 and the connection between its two protostars. <i>Astronomy and Astrophysics</i> , 2019, 626, A93.	5.1	27
89	Detection of HCN Directly Type Transitions Probing Hot Molecular Gas in the Proto-Planetary Nebula CRL 618. <i>Astrophysical Journal</i> , 2003, 586, 338-343.	4.5	26
90	Microwave Fourier Transform Spectroscopy of Perchloryl Fluoride: 19F35/37Cl16O3 and 19F35/37Cl16O218O. <i>Journal of Molecular Spectroscopy</i> , 1996, 175, 120-132.	1.2	25

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91	High resolution rotationâ€“inversion spectroscopy on doubly deuterated ammonia, ND ₂ H, up to 2.6THz. Journal of Molecular Structure, 2006, 795, 242-255.	3.6	25
92	The Submillimeter Wave Spectrum of Isotopic Methyl Cyanide. Astrophysical Journal, 1996, 471, 1067-1072.	4.5	24
93	Spectroscopy of the formaldehyde isotopomer H ₂ ¹³ CO in the microwave to terahertz region. Physical Chemistry Chemical Physics, 2000, 2, 3401-3404.	2.8	24
94	The quest for complex molecules in space: laboratory spectroscopy of <i>n</i> -butyl cyanide, <i>n</i> -C ₄ H ₉ CN, in the millimeter wave region and its astronomical search in Sagittarius B ₂ (N). Astronomy and Astrophysics, 2012, 541, A121.	5.1	24
95	Detection of CH ⁺ , SH ⁺ , and their ¹³ C- and ³⁴ S-isotopologues toward PKSâ€“1830â€“211. Astronomy and Astrophysics, 2017, 606, A109.	5.1	23
96	Far-infrared laboratory spectroscopy of aminoacetonitrile and first interstellar detection of its vibrationally excited transitions. Astronomy and Astrophysics, 2020, 641, A160.	5.1	23
97	Reversal of infall in SgrB2(M) revealed by <i>Herschel</i> /HIFI observations of HCN lines at THz frequencies. Astronomy and Astrophysics, 2010, 521, L46.	5.1	23
98	Rotational spectra and hyperfine structure of isotopic species of deuterated cyanoacetylene, DC ₃ N. Chemical Physics, 2008, 346, 132-138.	1.9	22
99	Linking interstellar and cometary O ₂ : a deep search for ¹⁶ O ¹⁸ O in the solar-type protostar IRAS 16293â€“2422. Astronomy and Astrophysics, 2018, 618, A11.	5.1	22
100	Outflowing OH ⁺ in Markarian 231: The Ionization Rate of the Molecular Gas. Astrophysical Journal, 2018, 857, 66.	4.5	22
101	A Concise New Look at the [CLC][ITAL]I[/ITAL][CLC]-Type Spectrum of H ¹² C ¹⁴ N. Astrophysical Journal, 2003, 585, L163-L165.	4.5	21
102	Dimethyl ether in its ground state, <i>v</i> = 0, and lowest two torsionally excited states, <i>v</i> ₁₁ = 1 and <i>v</i> ₁₅ = 1, in the high-mass star-forming region G327.3-0.6. Astronomy and Astrophysics, 2013, 552, A122.	5.1	20
103	Terahertz spectroscopy of N ₂ O and isotopic invariant fit of several nitric oxide isotopologs. Journal of Molecular Spectroscopy, 2015, 310, 92-98.	1.2	20
104	Submillimeter spectroscopy of H ₂ C ¹⁷ O and a revisit of the rotational spectra of H ₂ C ¹⁸ O and H ₂ C ¹⁶ O. Journal of Molecular Spectroscopy, 2017, 331, 28-33.	1.2	20
105	High spectral resolution observations of HNC ₃ and HCCNC in the L1544 pre-stellar core. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 474, L76-L80.	3.3	20
106	The rotational spectrum of the SH ⁺ radical in its X ³ Ë™ state. Journal of Molecular Spectroscopy, 2009, 255, 68-71.	1.2	19
107	Spectroscopic parameters for silacyclopropynylidene, SiC ₂ , from extensive astronomical observations toward CW Leo (IRC +10216) with the <i>Herschel</i> satellite. Journal of Molecular Spectroscopy, 2012, 271, 50-55.	1.2	19
108	Spectroscopic parameters of phosphine, PH ₃ , in its ground vibrational state. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 335-340.	2.3	19

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109	Searches for HCl and HF in comets 103P/Hartley 2 and C/2009 P1 (Garradd) with the <i>Herschel</i> Space Observatory. <i>Astronomy and Astrophysics</i> , 2014, 562, A5.	5.1	19
110	Laboratory spectroscopy of 1,2-propanediol at millimeter and submillimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2014, 570, A12.	5.1	18
111	Exploring molecular complexity with ALMA (EMoCA): complex isocyanides in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2020, 636, A29.	5.1	18
112	Accurate laboratory rest frequencies of vibrationally excited CO up to $v=3$ and up to 2 THz. <i>Astronomy and Astrophysics</i> , 2009, 497, 927-930.	5.1	17
113	Millimetre-wave spectrum of anti- ¹³ C1 and ¹³ C2 isotopologues of ethanol. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1148-1154.	2.3	17
114	Upper limits to interstellar NH ⁺ and para-NH ₂ ⁺ abundances. <i>Astronomy and Astrophysics</i> , 2014, 567, A130.	5.1	17
115	Spectroscopic study and astronomical detection of doubly- ¹³ C-substituted ethyl cyanide. <i>Astronomy and Astrophysics</i> , 2016, 590, A93.	5.1	17
116	Small-scale physical and chemical structure of diffuse and translucent molecular clouds along the line of sight to Sgr B2. <i>Astronomy and Astrophysics</i> , 2019, 623, A68.	5.1	16
117	Interstellar detection and chemical modeling of iso-propanol and its normal isomer. <i>Astronomy and Astrophysics</i> , 2022, 662, A110.	5.1	16
118	Revised spectroscopic parameters of SH ⁺ from ALMA and IRAM 30m observations. <i>Astronomy and Astrophysics</i> , 2014, 569, L5.	5.1	15
119	Millimeter and submillimeter wave spectroscopy of propanal. <i>Journal of Molecular Spectroscopy</i> , 2017, 342, 125-131.	1.2	15
120	Submillimeter spectroscopy and astronomical searches of vinyl mercaptan, C ₂ H ₃ SH. <i>Astronomy and Astrophysics</i> , 2019, 623, A167.	5.1	15
121	Rotational spectroscopy of methyl mercaptan CH ₃ ³² SH at millimeter and submillimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2019, 629, A73.	5.1	15
122	Far-infrared laser-sideband measurements of the amidogen radical, NH ₂ , near 2 THz with microwave accuracy. <i>Journal of Molecular Structure</i> , 2001, 599, 293-304.	3.6	14
123	Tunneling dynamics and spectroscopic parameters of monodeuterated hydronium, H ₂ DO ⁺ , from a combined analysis of infrared and sub-millimeter spectra. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8362.	2.8	14
124	<i>Herschel</i> /HIFI observation of highly excited rotational lines of HNC toward IRC+10.216. <i>Astronomy and Astrophysics</i> , 2012, 542, A37.	5.1	14
125	Laboratory spectroscopic study and astronomical detection of vibrationally excited <i>n</i> -propyl cyanide. <i>Astronomy and Astrophysics</i> , 2016, 595, A87.	5.1	14
126	Laboratory rotational spectroscopy of isotopic acetone, CH ₃ ¹³ C(O)CH ₃ and ¹³ CH ₃ C(O)CH ₃ , and astronomical search in Sagittarius B2(N ₂). <i>Astronomy and Astrophysics</i> , 2019, 629, A72.		14

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127	ATOMIUM: ALMA tracing the origins of molecules in dust forming oxygen rich M-type stars. <i>Astronomy and Astrophysics</i> , 2022, 660, A94.	5.1	14
128	The submillimeter wave spectrum of the C ₄ H ₄ isomer vinylacetylene. <i>Journal of Molecular Structure</i> , 2004, 695-696, 263-267.	3.6	13
129	Investigations into the millimeter and submillimeter-wave spectrum of perdeuterated methanol, CD ₃ OD, in its ground and first excited torsional states. <i>Journal of Molecular Structure</i> , 2006, 795, 114-133.	3.6	13
130	Rotational Spectroscopy of the Lowest Energy Conformer of 2-Cyanobutane. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7121-7129.	2.5	13
131	Double resonance rotational action spectroscopy of cold H ₂ D ⁺ and D ₂ H ⁺ . <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 33-37.	1.2	13
132	The ALMA-PILS survey: propyne (CH ₃ CCH) in IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2019, 631, A137.	5.1	13
133	ATOMIUM: halide molecules around the S-type AGB star W Aquilae. <i>Astronomy and Astrophysics</i> , 2021, 655, A80.	5.1	13
134	Interstellar glycolamide: A comprehensive rotational study and an astronomical search in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2020, 639, A135.	5.1	13
135	The Rotational Spectrum of Antiethylamine (CH ₃ CH ₂ NH ₂) from 10 to 270 GHz: A Laboratory Study and Astronomical Search in Sgr B2(N). <i>Astrophysical Journal</i> , 2008, 673, 1240-1248.	4.5	12
136	<i>Herschel</i> observations of deuterated water towards Sgr B2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L38.	5.1	12
137	Interactions in symmetric top molecules between vibrational polyads: rotational and rovibrational spectroscopy of low-lying states of propyne, H ₃ CCH. <i>Molecular Physics</i> , 2004, 102, 1555-1568.	1.7	11
138	Rotational spectroscopy of isotopic cyclopropenone, c-H ₂ C ₃ O, and determination of its equilibrium structure. <i>Astronomy and Astrophysics</i> , 2021, 647, A179.	5.1	11
139	The ALMA-PILS survey: First tentative detection of 3-hydroxypropenal (HOCHCHCHO) in the interstellar medium and chemical modeling of the C ₃ H ₄ O ₂ isomers. <i>Astronomy and Astrophysics</i> , 2022, 660, L6.	5.1	11
140	The Rotational Spectrum of ClClO ₂ in Its v ₄ =1 and v ₆ =1 Vibrationally Excited States: An Example of Strong Coriolis Interaction. <i>Journal of Molecular Spectroscopy</i> , 2002, 216, 335-344.	1.2	10
141	High resolution spectroscopy of and. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 2077-2081.	2.3	10
142	Rotational spectroscopy of isotopic oxirane, $\text{C}_2\text{H}_2\text{O}$. <i>Journal of Molecular Spectroscopy</i> , 2009, 261, 1-10.	1.2	10
143	The rotational spectra of the ground and first excited bending states of deuterium isocyanide, DNC, up to 2THz. <i>Journal of Molecular Structure</i> , 2006, 780-781, 3-6.	3.6	9
144	The spectroscopic parameters of sodium cyanide, NaCN (A ²), revisited. <i>Journal of Molecular Spectroscopy</i> , 2012, 272, 23-26.	1.2	9

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145	Rotational spectroscopy of the two conformers of 3-methylbutyronitrile (C ₄ H ₉ CN) between 2 and 400 GHz. <i>Astronomy and Astrophysics</i> , 2018, 615, A140.	5.1	9
146	Deuterated methyl mercaptan (CH ₃ SD): Laboratory rotational spectroscopy and search toward IRAS 16293-2422 B. <i>Astronomy and Astrophysics</i> , 2019, 621, A114.	5.1	9
147	Millimeter- and submillimeter-wave spectroscopy of thioformamide and interstellar search toward Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2020, 642, A29.	5.1	9
148	Toward a global model of the interactions in low-lying states of methyl cyanide: Rotational and rovibrational spectroscopy of the $\text{CH}_3\text{C}^{13}\text{N}$ isotopomer. <i>Journal of Molecular Spectroscopy</i> , 2021, 397, 105-114.	1.2	8
149	Rotational and rovibrational spectroscopy of CD ₃ OH with an account of CD ₃ OH toward IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2022, 658, A127.	5.1	8
150	Laboratory rotational spectroscopy of acrylamide and a search for acrylamide and propionamide toward Sgr B2(N) with ALMA. <i>Astronomy and Astrophysics</i> , 2022, 659, A111.	5.1	8
151	Millimetre-wave spectrum of the singly deuterated isotopologues of anti-ethanol. <i>Journal of Molecular Spectroscopy</i> , 2015, 314, 6-12.	1.2	7
152	Millimetre-wave laboratory study of glycinamide and a search for it with ALMA towards Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2022, 657, A99.	5.1	7
153	Rotational spectroscopy of C-cyanophosphaethyne, NCCP, in states of multiple vibrational excitation. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3490-3498.	2.8	6
154	Special issue dedicated to the pioneering work of Drs. Edward A. Cohen and Herbert M. Pickett on spectroscopy relevant to the Earth's atmosphere and astrophysics. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 1-3.	1.2	6
155	Submillimeter-wave spectrum of anti-anti-gauche diethyl ether. <i>Journal of Molecular Spectroscopy</i> , 2009, 257, 24-28.	1.2	6
156	Laboratory spectroscopic study of the ¹⁵ N isotopomers of cyanamide, H ₂ NCN, and a search for them toward IRAS 16293-2422 B. <i>Astronomy and Astrophysics</i> , 2019, 623, A93.	5.1	5
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