

Holger Mueller

List of Publications by Year in descending order

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172
papers

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41344

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times ranked

3506
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#	ARTICLE	IF	CITATIONS
1	Millimetre-wave laboratory study of glycine and a search for it with ALMA towards Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2022, 657, A99.	5.1	7
2	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
3	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
4	(Sub-)millimeter-wave spectroscopy of gauche-propanal. <i>Journal of Molecular Spectroscopy</i> , 2022, 384, 111565.	1.2	3
5	Rotational spectroscopy of isotopic oxirane, $\text{C}^{13}\text{H}_2\text{O}$. <i>Journal of Molecular Spectroscopy</i> , 2022, 384, 111565.	1.2	10
6	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
7	Submillimeter wave spectroscopy and astronomical search for 1-propanimine. <i>Astronomy and Astrophysics</i> , 2022, 663, A132.	5.1	5
8	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
9	Interstellar detection and chemical modeling of iso-propanol and its normal isomer. <i>Astronomy and Astrophysics</i> , 2022, 662, A110.	5.1	16
10	Rotational spectroscopy of <i>n</i> -propanol: <i>Aa</i> and <i>Ag</i> conformers. <i>Astronomy and Astrophysics</i> , 2022, 662, A111.	5.1	3
11	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
12	Rotational spectroscopic study and astronomical search for propiolamide in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2021, 647, A55.	5.1	5
13	Rotational spectroscopy of isotopic cyclopropanone, c-H ₂ C ₃ O, and determination of its equilibrium structure. <i>Astronomy and Astrophysics</i> , 2021, 647, A179.	5.1	11
14	Toward a global model of the interactions in low-lying states of methyl cyanide: Rotational and rovibrational spectroscopy of the $\text{C}^{13}\text{H}_2\text{N}$ state and tentative interstellar detection of the $\text{C}^{13}\text{H}_2\text{N}$ state. <i>Journal of Molecular Spectroscopy</i> , 2021, 381, 111519.	1.2	8
15	ATOMIUM: halide molecules around the S-type AGB star W Aquilae. <i>Astronomy and Astrophysics</i> , 2021, 655, A80.	5.1	13
16	Millimeter-millimeter-wave double-modulation double-resonance spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2021, 381, 111519.	1.2	5
17	Rotational spectrum of isotopic methyl mercaptan, ¹³ CH ₃ SH, in the laboratory and towards Sagittarius B2(N ₂). <i>Canadian Journal of Physics</i> , 2020, 98, 530-537.	1.1	5
18	Far-infrared laboratory spectroscopy of aminoacetonitrile and first interstellar detection of its vibrationally excited transitions. <i>Astronomy and Astrophysics</i> , 2020, 641, A160.	5.1	23

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19	(Sub)stellar companions shape the winds of evolved stars. <i>Science</i> , 2020, 369, 1497-1500.	12.6	57
20	A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76.	1.6	53
21	Determination of accurate rest frequencies and hyperfine structure parameters of cyanobutadiyne, HC ₅ N. <i>Journal of Molecular Spectroscopy</i> , 2020, 371, 111303.	1.2	3
22	The ALMA-PILS survey: inventory of complex organic molecules towards IRAS 16293â€”2422 A. <i>Astronomy and Astrophysics</i> , 2020, 635, A48.	5.1	87
23	Rotational spectroscopy of singly ¹³ C substituted isotopomers of propyne and determination of a semi-empirical equilibrium structure. <i>Journal of Molecular Structure</i> , 2020, 1207, 127769.	3.6	3
24	Exploring molecular complexity with ALMA (EMoCA): complex isocyanides in Sgr B2(N). <i>Astronomy and Astrophysics</i> , 2020, 636, A29.	5.1	18
25	Complex organic molecules in low-mass protostars on Solar System scales. <i>Astronomy and Astrophysics</i> , 2020, 639, A87.	5.1	51
26	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
27	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
28	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
29	The physical and chemical structure of Sagittarius B2. <i>Astronomy and Astrophysics</i> , 2019, 628, A6.	5.1	32
30	Rotational spectroscopy of isotopic species of methyl mercaptan at millimeter and submillimeter wavelengths: CH ₃ ³⁴ SH. <i>Astronomy and Astrophysics</i> , 2019, 627, A41.	5.1	2
31	The ALMA-PILS survey: gas dynamics in IRAS 16293â€”2422 and the connection between its two protostars. <i>Astronomy and Astrophysics</i> , 2019, 626, A93.	5.1	27
32	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea. <i>Astronomy and Astrophysics</i> , 2019, 628, A10.	5.1	117
33	The ALMA-PILS survey: the first detection of doubly deuterated methyl formate (CHD ₂ OCHO) in the ISM. <i>Astronomy and Astrophysics</i> , 2019, 623, A69.	5.1	39
34	Laboratory spectroscopic study of the ¹⁵ N isotopomers of cyanamide, H ₂ NCN, and a search for them toward IRAS 16293â€”2422 B. <i>Astronomy and Astrophysics</i> , 2019, 623, A93.	5.1	5
35	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
36	The ALMA-PILS survey: First detection of nitrous acid (HONO) in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2019, 623, L13.	5.1	37

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37	Submillimeter spectroscopy and astronomical searches of vinyl mercaptan, C ₂ H ₃ SH. <i>Astronomy and Astrophysics</i> , 2019, 623, A167.	5.1	15
38	Deuterated methyl mercaptan (CH ₃ SD): Laboratory rotational spectroscopy and search toward IRAS 16293â€“2422 B. <i>Astronomy and Astrophysics</i> , 2019, 621, A114.	5.1	9
39	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(N2). <i>Astronomy and Astrophysics</i> , 2019, 629, A72.	5.1	14
40	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
41	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(N2) <i>(Corrigendum)</i> . <i>Astronomy and Astrophysics</i> , 2019, 630, C1.	5.1	1
42	The ALMA-PILS survey: propyne (CH ₃ CCH) in IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2019, 631, A137.	5.1	13
43	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
44	High spectral resolution observations of HNC and HCCNC in the L1544 pre-stellar core. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 474, L76-L80.	3.3	20
45	Linking interstellar and cometary O ₂ : a deep search for ¹⁶ O ¹⁸ O in the solar-type protostar IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2018, 618, A11.	5.1	22
46	The ALMA-PILS survey: Stringent limits on small amines and nitrogen-oxides towards IRAS 16293â€“2422B. <i>Astronomy and Astrophysics</i> , 2018, 619, A28.	5.1	42
47	The ALMA-PILS survey: complex nitriles towards IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2018, 616, A90.	5.1	77
48	The ALMA-PILS survey: isotopic composition of oxygen-containing complex organic molecules toward IRAS 16293â€“2422B. <i>Astronomy and Astrophysics</i> , 2018, 620, A170.	5.1	124
49	First detection of cyanamide (NH ₂ CN) towards solar-type protostars. <i>Astronomy and Astrophysics</i> , 2018, 612, A107.	5.1	44
50	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
51	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
52	The ALMA-PILS Survey: Formaldehyde deuteration in warm gas on small scales toward IRAS 16293â€“2422 B. <i>Astronomy and Astrophysics</i> , 2018, 610, A54.	5.1	58
53	Outflowing OH ⁺ in Markarian 231: The Ionization Rate of the Molecular Gas. <i>Astrophysical Journal</i> , 2018, 857, 66.	4.5	22
54	The ALMA-PILS survey: 3D modeling of the envelope, disks and dust filament of IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2018, 612, A72.	5.1	43

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55	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
56	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. <i>Journal of Molecular Spectroscopy</i> , 2017, 331, 28-33.	1.2	20
57	Rotational spectroscopy, tentative interstellar detection, and chemical modeling of N-methylformamide. <i>Astronomy and Astrophysics</i> , 2017, 601, A49.	5.1	116
58	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
59	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
60	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
61	Rotational Spectroscopy of the Lowest Energy Conformer of 2-Cyanobutane. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7121-7129.	2.5	13
62	Millimeter and submillimeter wave spectroscopy of propanal. <i>Journal of Molecular Spectroscopy</i> , 2017, 342, 125-131.	1.2	15
63	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
64	The millimeter and sub-millimeter rotational spectrum of triple ¹³ C-substituted ethyl cyanide. <i>Astronomy and Astrophysics</i> , 2017, 601, A2.	5.1	2
65	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
66	The physical and chemical structure of Sagittarius B2. <i>Astronomy and Astrophysics</i> , 2017, 604, A6.	5.1	59
67	An observational study of dust nucleation in Mira (Ceti). <i>Astronomy and Astrophysics</i> , 2017, 599, A59.	5.1	28
68	Detection of CH ₃ ⁺ , SH ₂ ⁺ , and their ¹³ C- and ³⁴ S-isotopologues toward PKS 1830-211. <i>Astronomy and Astrophysics</i> , 2017, 606, A109.	5.1	23
69	An observational study of dust nucleation in Mira (Ceti). <i>Astronomy and Astrophysics</i> , 2016, 592, A42.	5.1	53
70	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
71	Spectroscopic study and astronomical detection of doubly ¹³ C-substituted ethyl cyanide. <i>Astronomy and Astrophysics</i> , 2016, 590, A93.	5.1	17
72	Laboratory spectroscopic study and astronomical detection of vibrationally excited n-propyl cyanide. <i>Astronomy and Astrophysics</i> , 2016, 595, A87.	5.1	14

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73	OH ⁺ and H ₂ O ⁺ absorption toward PKS 1830-211. <i>Astronomy and Astrophysics</i> , 2016, 595, A128.	5.1	36
74	The ALMA Protostellar Interferometric Line Survey (PILS). <i>Astronomy and Astrophysics</i> , 2016, 595, A117.	5.1	267
75	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
76	The sulfur depletion problem: upper limits on the H ₂ S ₂ , HS ⁺ , and S ₂ gas-phase abundances toward the low-mass warm core IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2016, 585, A112.	5.1	37
77	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
78	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
79	DIVISION B COMMISSION 14 WORKING GROUP: MOLECULAR DATA. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 137-152.	0.0	0
80	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
81	Terahertz spectroscopy of N ₁₈ O and isotopic invariant fit of several nitric oxide isotopologs. <i>Journal of Molecular Spectroscopy</i> , 2015, 310, 92-98.	1.2	20
82	Rotational spectroscopy as a tool to investigate interactions between vibrational polyads in symmetric top molecules: Low-lying states $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si89.gif" overflow="scroll"} \rangle$ of methyl cyanide, CH ₃ CN. <i>Journal of Molecular Spectroscopy</i> , 2015, 312, 22-37.	1.2	33
83	Millimetre-wave spectrum of the singly deuterated isotopologues of anti-ethanol. <i>Journal of Molecular Spectroscopy</i> , 2015, 314, 6-12.	1.2	7
84	Complex organic molecules in the interstellar medium: IRAM 30 m line survey of Sagittarius B2(N) and (M)(Corrigendum). <i>Astronomy and Astrophysics</i> , 2014, 561, C1.	5.1	2
85	Upper limits to interstellar NH ⁺ and para-NH ₂ ⁺ abundances. <i>Astronomy and Astrophysics</i> , 2014, 567, A130.	5.1	17
86	Detection of a branched alkyl molecule in the interstellar medium: <i>i</i> -propyl cyanide. <i>Science</i> , 2014, 345, 1584-1587.	12.6	205
87	Laboratory spectroscopy of 1,2-propanediol at millimeter and submillimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2014, 570, A12.	5.1	18
88	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
89	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
90	Revised spectroscopic parameters of SH ⁺ from ALMA and IRAM 30 m observations. <i>Astronomy and Astrophysics</i> , 2014, 569, L5.	5.1	15

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91	Spectroscopic parameters of phosphine, PH ₃ , in its ground vibrational state. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 335-340.	2.3	19
92	Dimethyl ether in its ground state, $v=0$, and lowest two torsionally excited states, $v_{11}=1$ and $v_{15}=1$, in the high-mass star-forming region G327.3-0.6. <i>Astronomy and Astrophysics</i> , 2013, 552, A122.	5.1	20
93	Pure rotational spectra of TiO and TiO ₂ in VY Canis Majoris. <i>Astronomy and Astrophysics</i> , 2013, 551, A113.	5.1	73
94	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
95	Herschel/HIFI Discovery of a Far-Infrared DIB Analog. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 197-202.	0.0	0
96	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
97	Herschel/HIFI observation of highly excited rotational lines of HNC toward IRC +10216. <i>Astronomy and Astrophysics</i> , 2012, 542, A37.	5.1	14
98	On the physical structure of IRC +10216. <i>Astronomy and Astrophysics</i> , 2012, 539, A108.	5.1	59
99	The quest for complex molecules in space: laboratory spectroscopy of <i>n</i> -butyl cyanide, $n\text{-C}_4\text{H}_9\text{CN}$, in the millimeter wave region and its astronomical search in Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2012, 541, A121.	5.1	24
100	Terahertz and far-infrared synchrotron spectroscopy and global modeling of methyl mercaptan, CH ₃ SH. <i>Journal of Chemical Physics</i> , 2012, 137, 104313.	3.0	33
101	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
102	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2012, 543, A145.	5.1	66
103	Spectroscopic parameters for silacyclopopynylidene, SiC ₂ , from extensive astronomical observations toward CW Leo (IRC +10216) with the Herschel satellite. <i>Journal of Molecular Spectroscopy</i> , 2012, 271, 50-55.	1.2	19
104	The spectroscopic parameters of sodium cyanide, NaCN (A ²), revisited. <i>Journal of Molecular Spectroscopy</i> , 2012, 272, 23-26.	1.2	9
105	Millimetre-wave spectrum of anti- ¹³ C ₁ and ¹³ C ₂ isotopologues of ethanol. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1148-1154.	2.3	17
106	Submillimeter absorption from SH ⁺ , a new widespread interstellar radical, ¹³ CH ⁺ and HCl. <i>Astronomy and Astrophysics</i> , 2011, 525, A77.	5.1	101
107	Herschel observations of EXtra-Ordinary Sources (HEXOS): Methanol as a probe of physical conditions in Orion KL. <i>Astronomy and Astrophysics</i> , 2011, 527, A95.	5.1	42
108	Rotational spectroscopy, dipole moment and ¹⁴ N nuclear hyperfine structure of iso-propyl cyanide. <i>Journal of Molecular Spectroscopy</i> , 2011, 267, 100-107.	1.2	34

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109	<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
110	Detection of interstellar oxidaniumyl: Abundant H_2O^+ towards the star-forming regions DR21, Sgr B2, and NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 518, L111.	5.1	78
111	<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
112	<i>Herschel</i> observations of deuterated water towards Sgr B2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L38.	5.1	12
113	Circumstellar molecular composition of the oxygen-rich AGB star IK Tauri. <i>Astronomy and Astrophysics</i> , 2010, 516, A69.	5.1	88
114	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H_2Cl^+). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	5.1	83
115	<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
116	<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
117	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Observations of H_2O and its isotopologues towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L27.	5.1	29
118	<i>Herschel</i> observations of ortho- and para-oxidaniumyl (H_2O^+) in spiral arm clouds toward Sagittarius B2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L11.	5.1	35
119	<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
120	A high-resolution line survey of IRC +10216 with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L8.	5.1	68
121	Terahertz spectroscopy of oxygen, O_2 , in its $3\tilde{\Delta}_g$ and $1\tilde{\Sigma}^+$ electronic states. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1167-1173.	2.3	27
122	Detection of OH^+ and H_2O^+ towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L47.	5.1	40
123	Tunneling dynamics and spectroscopic parameters of monodeuterated hydronium, H_2DO^+ , from a combined analysis of infrared and sub-millimeter spectra. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8362.	2.8	14
124	Spectroscopic parameters and rest frequencies of isotopic methylidyne, CH^+ . <i>Astronomy and Astrophysics</i> , 2010, 514, L6.	5.1	29
125	Reversal of infall in Sgr B2(M) revealed by <i>Herschel</i> /HIFI observations of HCN lines at THz frequencies. <i>Astronomy and Astrophysics</i> , 2010, 521, L46.	5.1	23
126	Accurate laboratory rest frequencies of vibrationally excited CO up to $v=3$ and up to $2\tilde{\Delta}$. <i>Astronomy and Astrophysics</i> , 2009, 497, 927-930.	5.1	17

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127	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
128	C ₂ H in prestellar cores. <i>Astronomy and Astrophysics</i> , 2009, 505, 1199-1211.	5.1	56
129	Submillimeter-wave spectrum of anti and gauche diethyl ether. <i>Journal of Molecular Spectroscopy</i> , 2009, 257, 24-28.	1.2	6
130	The rotational spectrum of the SH ⁺ radical in its X ³ Σ ⁺ state. <i>Journal of Molecular Spectroscopy</i> , 2009, 255, 68-71.	1.2	19
131	High resolution spectroscopy of and. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 2077-2081.	2.3	10
132	Increased complexity in interstellar chemistry: detection and chemical modeling of ethyl formate and n-propyl cyanide in Sagittarius B2(N). <i>Astronomy and Astrophysics</i> , 2009, 499, 215-232.	5.1	218
133	Dimethyl ether: laboratory spectra up to 2.1 THz. <i>Astronomy and Astrophysics</i> , 2009, 504, 635-640.	5.1	50
134	Hyperfine structure in the J = 1 ← 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
135	Rotational spectra and hyperfine structure of isotopic species of deuterated cyanoacetylene, DC ₃ N. <i>Chemical Physics</i> , 2008, 346, 132-138.	1.9	22
136	Multispectrum analysis of the J ₂ 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
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