

Stephan Schlemmer

List of Publications by Year in descending order

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244
papers

9,027
citations

38720

50
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54882

84
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250
docs citations

250
times ranked

4446
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.4	498
2	A KINETIC DATABASE FOR ASTROCHEMISTRY (KIDA). <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 21.	3.0	436
3	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 20.	3.0	291
4	A molecular beam study of the evaporation of water from a liquid jet. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1988, 10, 269-277.	1.0	216
5	Understanding the Infrared Spectrum of Bare CH ₅ ⁺ . <i>Science</i> , 2005, 309, 1219-1222.	6.0	194
6	Desorption rates and sticking coefficients for CO and N ₂ interstellar ices. <i>Astronomy and Astrophysics</i> , 2006, 449, 1297-1309.	2.1	174
7	Photodesorption of CO Ice. <i>Astrophysical Journal</i> , 2007, 662, L23-L26.	1.6	166
8	Virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2151-2159.	1.1	164
9	Interstellar OH ⁺ , H ₂ O ⁺ and H ₃ O ⁺ along the sight-line to G10.6+0.4. <i>Astronomy and Astrophysics</i> , 2010, 518, L110.	2.1	155
10	Competition between CO and N ₂ Desorption from Interstellar Ices. <i>Astrophysical Journal</i> , 2005, 621, L33-L36.	1.6	147
11	H ₃ ⁺ + H ₂ isotopic system at low temperatures: Microcanonical model and experimental study. <i>Journal of Chemical Physics</i> , 2009, 130, 164302.	1.2	143
12	<i>Herschel</i> /HIFI observations of interstellar OH ⁺ and H ₂ O ⁺ towards W49N: a probe of diffuse clouds with a small molecular fraction. <i>Astronomy and Astrophysics</i> , 2010, 521, L10.	2.1	143
13	Chemical modeling of L183 (L134N): an estimate of the ortho/para H ₂ ratio. <i>Astronomy and Astrophysics</i> , 2009, 494, 623-636.	2.1	141
14	The virtual atomic and molecular data centre (VAMDC) consortium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 074003.	0.6	120
15	Investigations of Protonated and Deprotonated Water Clusters Using a Low-Temperature 22-Pole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4217-4225.	1.1	117
16	Laser excited N ₂ ⁺ in a 22-pole ion trap. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 589-602.	0.7	112
17	<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.	2.1	110
18	Exploring molecular complexity with ALMA (EMoCA): Alkanethiols and alkanols in Sagittarius B2(N ₂). <i>Astronomy and Astrophysics</i> , 2016, 587, A92.	2.1	109

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19	Experimental ground-state combination differences of CH ₅ ⁺ . <i>Science</i> , 2015, 347, 1346-1349.	6.0	107
20	COLTRAP: a 22-pole ion trapping machine for spectroscopy at 4ÅK. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 203-211.	1.1	106
21	Infrared emission spectra of candidate interstellar aromatic molecules. <i>Nature</i> , 1996, 380, 227-229.	13.7	103
22	H2D ⁺ observations give an age of at least one million years for a cloud core forming Sun-like stars. <i>Nature</i> , 2014, 516, 219-221.	13.7	102
23	Nondestructive high-resolution and absolute mass determination of single charged particles in a three-dimensional quadrupole trap. <i>Journal of Applied Physics</i> , 2001, 90, 5410-5418.	1.1	99
24	The unidentified interstellar infrared bands: PAHs as carriers?. <i>Science</i> , 1994, 265, 1686-1689.	6.0	94
25	LABORATORY ROTATIONAL SPECTRUM OF ¹³ C ₃ H ⁺ AND CONFIRMATION OF ITS ASTRONOMICAL DETECTION. <i>Astrophysical Journal Letters</i> , 2014, 783, L4.	3.0	94
26	Detection of hydrogen fluoride absorption in diffuse molecular clouds with <i>Herschel</i> /HIFI: an ubiquitous tracer of molecular gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L12.	2.1	92
27	Strong absorption by interstellar hydrogen fluoride: <i>Herschel</i> /HIFI observations of the sight-line to G10.6+0.4 (W31C). <i>Astronomy and Astrophysics</i> , 2010, 518, L108.	2.1	90
28	Laser induced reactions in a 22-pole ion trap: C ₂ H ₂ ⁺ +h ^{1/2} ₃ +H ₂ ⁺ →C ₂ H ₃ ⁺ +H. <i>Journal of Chemical Physics</i> , 2002, 117, 2068-2075.	1.2	89
29	A high resolution crossed molecular beam investigation of the absolute cross sections and product rotational states for the reaction F+D ₂ (v _i =0; j _i =0, 1)→DF(v _f ; j _f)+D. <i>Journal of Chemical Physics</i> , 1994, 101, 2106-2125.	1.2	85
30	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H ₂ Cl ⁺). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	2.1	83
31	Quantum-induced symmetry breaking explains infrared spectra of CH ₅ ⁺ isotopologues. <i>Nature Chemistry</i> , 2010, 2, 298-302.	6.6	79
32	Deuterium fractionation in gas-phase reactions measured in the laboratory. <i>Planetary and Space Science</i> , 2002, 50, 1287-1297.	0.9	78
33	Detection of interstellar oxidaniumyl: Abundant H ₂ O ⁺ towards the star-forming regions DR21, SgrAB2, and NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 518, L111.	2.1	78
34	Interstellar CH absorption in the diffuse interstellar medium along the sight-lines to G10.6+0.4 (W31C), W49N, and W51. <i>Astronomy and Astrophysics</i> , 2010, 521, L16.	2.1	77
35	High-resolution rotational spectroscopy in a cold ion trap. $D \times H_2^+$	2.9	75
36	Single Photon Infrared Emission Spectroscopy: A Study of IR Emission from UV Laser Excited PAHs between 3 and 15 μm. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1465-1481.	1.1	71

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37	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L45.	2.1	68
38	Note: New design of a cryogenic linear radio frequency multipole trap. <i>Review of Scientific Instruments</i> , 2010, 81, 076102.	0.6	64
39	$\frac{\text{HOC}[\text{TSUP}] + [\text{TSUP}]}{[\text{HCO}[\text{TSUP}] + [\text{TSUP}]]} + \frac{\text{H}[\text{TINF}]^2}{[\text{TINF}]}$ Isomerization Rate at 25 K: Implications for the Observed $\frac{[\text{HCO}[\text{TSUP}] + [\text{TSUP}]]}{[\text{HOC}[\text{TSUP}] + [\text{TSUP}]]}$ Ratios in the Interstellar Medium. <i>Astrophysical Journal</i> , 2002, 578, L87-L90.	1.6	63
40	Numerical simulations of kinetic ion temperature in a cryogenic linear multipole trap. <i>International Journal of Mass Spectrometry</i> , 2009, 279, 147-155.	0.7	63
41	Application of superlattice multipliers for high-resolution terahertz spectroscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 043106.	0.6	60
42	Two-Photon Rotational Action Spectroscopy of Cold OH^+ at 1 Åppb Accuracy. <i>Physical Review Letters</i> , 2014, 112, 253005.	2.9	58
43	On the dynamics of the reaction of positive hydrogen cluster ions (H_5^+ to H_{23}^+) with para and normal hydrogen at 10 K. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 149-150, 373-387.	1.9	57
44	<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.	2.1	57
45	Overtone spectroscopy of H_2D^+ and D_2H^+ using laser induced reactions. <i>Journal of Chemical Physics</i> , 2007, 127, 154317.	1.2	55
46	Rotational Study of Carbon Monoxide Solvated with Helium Atoms. <i>Physical Review Letters</i> , 2008, 101, 233401.	2.9	53
47	A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76.	0.7	53
48	A comprehensive experimental and theoretical study of H_2^+CO spectra. <i>Journal of Chemical Physics</i> , 2013, 138, 084307.	1.2	52
49	Infrared spectroscopy of solid CO^+CO_2 mixtures and layers. <i>Astronomy and Astrophysics</i> , 2006, 451, 723-731.	2.1	50
50	Rotational spectroscopy of the isotopic species of silicon monosulfide, SiS. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1579-1586.	1.3	50
51	Dimethyl ether: laboratory spectra up to 2.1 THz. <i>Astronomy and Astrophysics</i> , 2009, 504, 635-640.	2.1	50
52	INTERSTELLAR DETECTION OF $\text{c-C}_3\text{D}_2$. <i>Astrophysical Journal Letters</i> , 2013, 769, L19.	3.0	50
53	CH^+ (1^+O) and $^{13}\text{CH}^+$ (1^+O) absorption lines in the direction of massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L15.	2.1	49
54	Absolute Integral and Differential Cross Sections for the Reactive Scattering of H^+ D_2 and D^+ H_2 . <i>Journal of Physical Chemistry A</i> , 1997, 101, 6441-6447.	1.1	48

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55	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards OrionÅKL. <i>Astronomy and Astrophysics</i> , 2010, 518, L109.	2.1	48
56	Controlled synthesis and analysis of Heâ€“H⁺₃ in a 3.7 K ion trap. <i>Molecular Physics</i> , 2015, 113, 2320-2332.	0.8	46
57	Charging Mechanisms of Trapped Element-Selectively Excited Nanoparticles Exposed to Soft X Rays. <i>Physical Review Letters</i> , 2006, 96, 066801.	1.6	45
58	Spin-state chemistry of deuterated ammonia. <i>Astronomy and Astrophysics</i> , 2015, 581, A122.	2.9	45
59	Comparative studies of O2 and N2 in pure, mixed and layered CO ices. <i>Faraday Discussions</i> , 2006, 133, 331-345.	2.1	45
60	Modelling line emission of deuterated H₃⁺ from prestellar cores. <i>Astronomy and Astrophysics</i> , 2010, 509, A98.	1.6	43
61	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Methanol as a probe of physical conditions in OrionÅKL. <i>Astronomy and Astrophysics</i> , 2011, 527, A95.	2.1	43
62	Rotational state-dependent attachment of He atoms to cold molecular ions: An action spectroscopic scheme for rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 67-78.	0.4	42
63	Detection of OH⁺ and H₂O⁺ towards OrionÅKL. <i>Astronomy and Astrophysics</i> , 2010, 521, L47.	2.1	40
64	The FELion cryogenic ion trap beam line at the FELIX free-electron laser laboratory: infrared signatures of primary alcohol cations. <i>Faraday Discussions</i> , 2019, 217, 172-202.	1.6	40
65	Submillimeter wave spectrum of acetic acid. <i>Journal of Molecular Spectroscopy</i> , 2013, 290, 31-41.	0.4	37
66	Gas-phase detection of HSOD and empirical equilibrium structure of oxadisulfane. <i>Journal of Molecular Structure</i> , 2006, 795, 256-262.	1.8	36
67	Deuteration of ammonia in the starless core Ophiuchus/H-MM1. <i>Astronomy and Astrophysics</i> , 2017, 600, A61.	2.1	36
68	Higher Energy States in the CO Dimer: Millimeter-Wave Spectra and Rovibrational Calculations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12238-12247.	1.1	35
69	<i>Herschel</i> observations of ortho- and para-oxidaniumyl (H₂O⁺) in spiral arm clouds toward SagittariusÅB2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L11.	2.1	35
70	Deuteration of positive hydrogen cluster ions H5+ to H17+ at 10 K. <i>Chemical Physics</i> , 1996, 209, 265-274.	0.9	34
71	Rotational spectroscopy, dipole moment and 14N nuclear hyperfine structure of iso-propyl cyanide. <i>Journal of Molecular Spectroscopy</i> , 2011, 267, 100-107.	0.4	34
72			

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73	Variable temperature ion trap studies of CH ₄ ⁺⁺ H ₂ , HD and D ₂ : negative temperature dependence and significant isotope effect. <i>Chemical Physics</i> , 2004, 298, 97-105.	0.9	33
74	Terahertz and far-infrared synchrotron spectroscopy and global modeling of methyl mercaptan, CH ₃ SH. <i>Journal of Chemical Physics</i> , 2012, 137, 104313.	1.2	33
75	Gas-Phase Vibrational Spectroscopy of the Hydrocarbon Cations I-C ₃ H ⁺ , HC ₃ H ⁺ , and c-C ₃ H ₂ ⁺ : Structures, Isomers, and the Influence of Ne-Tagging. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8053-8062.	1.1	33
76	High-Resolution Spectroscopy of CH ₂ D ⁺ in a Cold 22-Pole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9975-9984.	1.1	32
77	Millimeter- and submillimeter-wave spectroscopy of disulfur dioxide, OSSO. <i>Journal of Molecular Spectroscopy</i> , 2015, 307, 33-39.	0.4	32
78	Frequency comb assisted mid-infrared spectroscopy of cold molecular ions. <i>Review of Scientific Instruments</i> , 2012, 83, 093110.	0.6	31
79	High-resolution vibrational and rotational spectroscopy of CD ₂ H ⁺ in a cryogenic ion trap. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 59-66.	0.4	31
80	Experimental Determination of the ¹ / ₂ C ₂ H ₂ Bending Vibrational Frequency and Renner-Teller Structure in Ground State (X ² Σ ⁺) C ₂ H ₂ Using Laser Induced Reactions. <i>Physical Review Letters</i> , 2005, 94, 073001.	2.9	30
81	High-Frequency Rotational Spectrum of Thioformaldehyde, H ₂ CS, in the Ground Vibrational State. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 543-550.	3.0	30
82	Excitation and abundance of C ₃ in star forming cores. <i>Astronomy and Astrophysics</i> , 2010, 521, L13.	2.1	30
83	Interaction of electrons and molecules with a single trapped nanoparticle. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 629-636.	1.1	29
84	Detection of 6 K gas in Ophiuchus D. <i>Astronomy and Astrophysics</i> , 2008, 482, 535-539.	2.1	29
85	<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.	2.1	29
86	<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.	2.1	29
87	A study of the C ₃ H ₂ isomers and isotopologues: first interstellar detection of HDCCC. <i>Astronomy and Astrophysics</i> , 2016, 586, A110.	2.1	29
88	High-resolution infrared spectroscopy of O ₂ H ⁺ in a cryogenic ion trap. <i>Journal of Chemical Physics</i> , 2018, 148, 144303.	1.2	29
89	Laboratory spectroscopic study of isotopic thioformaldehyde, H ₂ CS, and determination of its equilibrium structure. <i>Astronomy and Astrophysics</i> , 2019, 621, A143.	2.1	29
90	High resolution time-of-flight spectra for reactive scattering of F+D ₂ . <i>Journal of Chemical Physics</i> , 1991, 94, 4676-4677.	1.2	28

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91	Inelastic H ₂ scattering. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1475-1480.	1.7	28
92	Detection of Interstellar Ortho-D ₂ H ⁺ with SOFIA. <i>Astrophysical Journal</i> , 2017, 840, 63.	1.6	28
93	Herschel observations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. <i>Astronomy and Astrophysics</i> , 2010, 521, L14.	2.1	27
94	The First Laboratory Detection of Vibration-rotation Transitions of ¹² CH ⁺ and ¹³ CH ⁺ and Improved Measurement of Their Rotational Transition Frequencies. <i>Astrophysical Journal</i> , 2018, 857, 61.	1.6	27
95	ROTATIONAL SPECTROSCOPY OF THE CO-PARA-H ₂ MOLECULAR COMPLEX. <i>Astrophysical Journal</i> , 2009, 703, 2108-2112.	1.6	26
96	Symmetry of extremely floppy molecules: Molecular states beyond rotation-vibration separation. <i>Journal of Chemical Physics</i> , 2015, 143, 154302.	1.2	26
97	High resolution rotation-inversion spectroscopy on doubly deuterated ammonia, ND ₂ H, up to 2.6 THz. <i>Journal of Molecular Structure</i> , 2006, 795, 242-255.	1.8	25
98	VAMDC – The Virtual Atomic and Molecular Data Centre – A New Way to Disseminate Atomic and Molecular Data – VAMDC Level 1 Release. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	24
99	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 B2(N). <i>Astronomy and Astrophysics</i> , 2012, 541, A121.	2.1	24
100	Frequency comb assisted measurement of fundamental transitions of cold H_2D^+ and D_2H^+ . <i>Journal of Molecular Spectroscopy</i> , 2016, 319, 55-58.	0.4	24
101	High-Resolution Spectroscopy of C ₃ around 3 μ m. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3332-3339.	1.1	23
102	Reversal of infall in Sgr B2(M) revealed by Herschel/HIFI observations of HCN lines at THz frequencies. <i>Astronomy and Astrophysics</i> , 2010, 521, L46.	2.1	23
103	On the combination of a linear field free trap with a time-of-flight mass spectrometer. <i>Review of Scientific Instruments</i> , 2001, 72, 2900-2908.	0.6	22
104	Comparison of the cis-bending and C-H stretching vibration on the reaction of C ₂ H ₂ with H ₂ using laser induced reactions. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1592-1600.	1.3	22
105	Rotational spectra and hyperfine structure of isotopic species of deuterated cyanoacetylene, DC ₃ N. <i>Chemical Physics</i> , 2008, 346, 132-138.	0.9	22
106	THE LOW-TEMPERATURE NUCLEAR SPIN EQUILIBRIUM OF H ₂ ⁺ ₃ IN COLLISIONS WITH H ₂ ⁺ . <i>Astrophysical Journal</i> , 2012, 759, 21.	1.6	22
107	Infrared Signatures of the HHe _{<i>n</i>} ⁺ and DHe _{<i>n</i>} ⁺ (<i>n</i> = 3-6) Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5325-5330.	2.1	22
108	Laboratory spectroscopy techniques to enable observations of interstellar ion chemistry. <i>Nature Reviews Physics</i> , 2020, 2, 402-410.	11.9	22

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109	Rotational study of carbon monoxide isotopologues in small 4He clusters. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8260.	1.3	21
110	Laboratory rotational spectra of the dimethyl ether- ¹³ C-isotopologues up to 1.5 THz. <i>Astronomy and Astrophysics</i> , 2013, 558, A112.	2.1	21
111	Collective Molecular Superrotation: A Model for Extremely Flexible Molecules Applied to Protonated Methane. <i>Physical Review Letters</i> , 2016, 117, 223002.	2.9	21
112	High-resolution double resonance action spectroscopy in ion traps: vibrational and rotational fingerprints of CH ₂ NH ₂ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26406-26412.	1.3	21
113	Laser induced reactions in a 22-pole ion trap. <i>Journal of Physics: Conference Series</i> , 2005, 4, 134-141.	0.3	20
114	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.	2.1	20
115	Accurate Frequency Determination of Vibration-Rotation and Rotational Transitions of SiH ₃ ⁺ . <i>Astrophysical Journal</i> , 2017, 849, 60.	1.6	20
116	Spectroscopy of the low-frequency vibrational modes of CH ₃ isotopologues. <i>Journal of Molecular Spectroscopy</i> , 2018, 347, 1-6.	0.4	20
117	Laboratory rotational ground state transitions of NH ₃ D ⁺ and CF ₃ ⁺ . <i>Astronomy and Astrophysics</i> , 2016, 593, A56.	2.1	20
118	Double Resonance Rotational Spectroscopy of Weakly Bound Ionic Complexes: The Case of Floppy CH ₃ ⁺ . <i>Physical Review Letters</i> , 2018, 121, 143001.	2.9	19
119	Double Resonance Rotational Spectroscopy of Weakly Bound Ionic Complexes: The Case of Floppy CH ₃ ⁺ . <i>Physical Review Letters</i> , 2020, 124, 233401.	2.9	19
120	Laboratory spectroscopy of 1,2-propanediol at millimeter and submillimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2014, 570, A12.	2.1	18
121	Pure Rotational Spectrum of CN ⁺ . <i>Astrophysical Journal Letters</i> , 2019, 882, L6.	3.0	18
122	Double resonance rotational spectroscopy of CH ₂ D ⁺ . <i>Astronomy and Astrophysics</i> , 2016, 593, L11.	2.1	18
123	High resolution infrared spectra of the linear carbon cluster C ₇ : The ν_{24} stretching fundamental band and associated hot bands. <i>Journal of Chemical Physics</i> , 2007, 127, 014313.	1.2	17
124	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.	1.1	17
125	Rotation-vibration motion of extremely flexible molecules – The molecular superrotor. <i>Chemical Physics Letters</i> , 2017, 672, 34-46.	1.2	17
126	Rotational Spectroscopy of the NH ₃ -H ₂ Molecular Complex. <i>Astrophysical Journal</i> , 2017, 838, 27.	1.6	17

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127	Identification of the fragment of the 1-methylpyrene cation by mid-IR spectroscopy. <i>Chemical Physics Letters</i> , 2018, 698, 206-210.	1.2	17
128	Double resonance rotational spectroscopy of He ⁺ HCO ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3440-3445.	1.3	17
129	Descendant of the X-ogen carrier and a ⁶⁹ Ar ⁺ mass of 69 ^{Ar} ⁺ : infrared action spectroscopic detection of HC ₃ O ⁺ and HC ₃ S ⁺ . <i>Molecular Physics</i> , 2020, 118, e1776409.	0.8	17
130	Efficient Methanol Production on the Dark Side of a Prestellar Core. <i>Astrophysical Journal</i> , 2020, 895, 101.	1.6	17
131	Millimeter-wave study of the CO ⁺ N ₂ van der Waals complex: new measurements of CO ⁺ orthoN ₂ and assignments of new states of CO ⁺ paraN ₂ . <i>Journal of Molecular Structure</i> , 2006, 795, 198-208.	1.8	16
132	A continuous-wave optical parametric oscillator around 5-1/4μm wavelength for high-resolution spectroscopy. <i>Review of Scientific Instruments</i> , 2011, 82, 063105.	0.6	16
133	A laboratory heterodyne emission spectrometer at submillimeter wavelengths. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5530-5544.	1.3	16
134	Rotational action spectroscopy of trapped molecular ions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26602-26622.	1.3	16
135	High-resolution infrared measurements on HSOH: Analysis of the OH fundamental vibrational mode. <i>Journal of Molecular Spectroscopy</i> , 2008, 247, 25-29.	0.4	15
136	Characterization of cis- and trans-HSSOH via Rotational Spectroscopy and Quantum-Chemical Calculations. <i>Inorganic Chemistry</i> , 2009, 48, 2269-2272.	1.9	15
137	Rotational transitions of CH ₂ D ⁺ determined by high-resolution IR spectroscopy. <i>Astronomy and Astrophysics</i> , 2010, 516, L3.	2.1	15
138	High-resolution OPO spectroscopy of Si ₂ C ₃ at 5-1/4μm: Observation of hot band transitions associated with 1/2 ³ . <i>Journal of Molecular Spectroscopy</i> , 2011, 270, 75-78.	0.4	15
139	The CO-H ₂ van der Waals complex and complex organic molecules in cold molecular clouds: A TMC-1C survey. <i>Astronomy and Astrophysics</i> , 2016, 594, A117.	2.1	15
140	Millimeter and submillimeter wave spectroscopy of propanal. <i>Journal of Molecular Spectroscopy</i> , 2017, 342, 125-131.	0.4	15
141	Fingerprints of microscopic superfluidity in HHe _n ⁺ clusters. <i>Molecular Physics</i> , 2019, 117, 1559-1583.	0.8	15
142	Submillimeter spectroscopy and astronomical searches of vinyl mercaptan, C ₂ H ₃ SH. <i>Astronomy and Astrophysics</i> , 2019, 623, A167.	2.1	15
143	Rotational spectroscopy of methyl mercaptan CH ₃ ³² SH at millimeter and submillimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2019, 629, A73.	2.1	15
144	Spectroscopic signatures of HHe ₂ ⁺ and HHe ₃ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22885-22888.	1.3	15

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