Peter Bernath

List of Publications by Year
in descending order

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730 papers	37,234 citations	8732 75 h-index	7136 153 g-index
821 all docs	821 docs citations	821 times ranked	15721 citing authors

#	Article	IF	Citations
1	The HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949.	1.1	770
2	Visible Opacity of M Dwarfs and Hot Jupiters: The TiO B ³Îâ”X ³Î” Band System. Astrophysical Journal, 2022, 926, 39.	1.6	1
3	Wildfire smoke destroys stratospheric ozone. Science, 2022, 375, 1292-1295.	6.0	37
4	On the stratospheric chemistry of midlatitude wildfire smoke. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117325119.	3.3	45
5	Absorption cross sections of n-butane, n-pentane, cyclopentane and cyclohexane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 290, 108284.	1.1	1
6	Line lists for X3Î£â” and a1Î” vibration-rotation bands of SO. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 290, 108317.	1.1	2
7	NRLMSIS 2.0: A Wholeâ€Atmosphere Empirical Model of Temperature and Neutral Species Densities. Earth and Space Science, 2021, 8, e2020EA001321.	1.1	145
8	The Atmospheric Chemistry Experiment Fourier transform spectrometer (ACE-FTS) version 4.1 retrievals: Trends and seasonal distributions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 259, 107409.	1.1	17
9	Line parameters for hot methane <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mi>Î½</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> band broadened by H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> from 296 to 1100 K. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 263, 107557.	1.1	1
10	Linemake: An Atomic and Molecular Line List Generator. Research Notes of the AAS, 2021, 5, 92.	0.3	49
11	HOCl retrievals from the Atmospheric Chemistry Experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 264, 107559.	1.1	5
12	Fifteen Years of HFCâ€134a Satellite Observations: Comparisons With SLIMCAT Calculations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033208.	1.2	7
13	Line-of-Sight Winds and Doppler Effect Smearing in ACE-FTS Solar Occultation Measurements. Atmosphere, 2021, 12, 680.	1.0	4
14	Absorption cross sections in the CH stretching region for propene broadened by helium and nitrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, , 107738.	1.1	1
15	Infrared absorption cross sections for hot isobutane in the CH stretching region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 269, 107644.	1.1	3
16	Stratospheric fluorine as a tracer of circulation changes: comparison between infrared remoteâ€sensing observations and simulations with five modern reanalyses. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034995.	1.2	8
17	The first remote-sensing measurements of HFC-32 in the Earth's atmosphere by the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107804.	1.1	10
18	Line lists for the b1Î£+-X3Î£â” and a1Î”-X3Î£â” transitions of SO. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107772.	1.1	5

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19	Comment on erratum to â€œInfrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gases J Quant Spectrosc Radiat Transf 227 (2019) 226-229â€¸J Quant Spectrosc Radiat Transf 242 (2020) 106771. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 273, 107840.	1.1	0
20	Near-infrared and Visible Opacities of S-type Stars: The B¹Îâ€”X¹Î£⁺ Band System of ZrO. Astrophysical Journal, 2021, 923, 234.	1.6	4
21	MoLLIST: Molecular Line Lists, Intensities and Spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106687.	1.1	80
22	N2 and H2 broadened isobutane infrared absorption cross sections and butane upper limits on Titan. Icarus, 2020, 344, 113460.	1.1	9
23	Line list for the a1Î”-X3Î£â^' transition of SO: Assignment of the 1.69 micron feature on Io. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106686.	1.1	3
24	Special issue in honor of the scientific contributions of Vladimir Tyuterev and Bob Gamache. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106608.	1.1	0
25	Erratum to â€œInfrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gasesâ€¸J Quant Spectrosc Radiat Transf 227 (2019) 226â€“229. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106771.	1.1	3
26	Near infrared absorption cross sections for ethane broadened by hydrogen and nitrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106780.	1.1	5
27	Absorption cross sections for ethane broadened by hydrogen and helium in the 3.3 micron region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107131.	1.1	2
28	Preface to the HighRus-2019 special issue of JQSRT. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107313.	1.1	0
29	Absorption cross sections for neopentane broadened by nitrogen in the 3.3ÂÂµm region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107034.	1.1	4
30	Pyrocumulonimbus Stratospheric Plume Injections Measured by the ACEâ€FTS. Geophysical Research Letters, 2020, 47, e2020GL088442.	1.5	21
31	Cyclohexane Vibrations: High-Resolution Spectra and Anharmonic Local Mode Calculations. Journal of Physical Chemistry A, 2020, 124, 9991-10000.	1.1	12
32	Stratospheric and mesospheric H2O and CH4 trends from the ACE satellite mission. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107268.	1.1	4
33	Infrared transmission spectra of hot ammonia in the 4800â€“9000Âcmâ^'1 region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106911.	1.1	4
34	Version 4 retrievals for the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS) and imagers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106939.	1.1	60
35	Sixteen-year trends in atmospheric trace gases from orbit. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107178.	1.1	22
36	Neopentane Vibrations: High Resolution Spectra and Anharmonic Calculations. Journal of Physical Chemistry A, 2020, 124, 3438-3444.	1.1	5

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37	Erratum to â€œInfrared absorption spectra of hot ammoniaâ€•[J Quant Spectrosc Radiat Transf 203 (2017) 410-416]. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106870.	1.1	1
38	Measured Optical Absorption Cross Sections of TiO. Astrophysical Journal, 2020, 895, 87.	1.6	5
39	Near-infrared Opacity of Late M Dwarfs and Hot Jupiters: The E³Îâ€“X³Î” Transition of TiO. Astrophysical Journal, 2020, 904, 24.	1.6	2
40	ExoMol line list â€“ XXXIV. A rovibrational line list for phosphinidene (PH) in its $X, {}^3Sigma ^-$ and $a, {}^1Delta$ electronic states. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2332-2342.	1.6	8
41	Low altitude CO2 from the Atmospheric Chemistry Experiment (ACE) satellite. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106528.	1.1	6
42	Trends in atmospheric HFC-23 (CHF3) and HFC-134a abundances. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106540.	1.1	15
43	Isobutane Infrared Bands: Partial Rotational Assignments, ab Initio Calculations, and Local Mode Analysis. Journal of Physical Chemistry A, 2019, 123, 6185-6193.	1.1	10
44	Global measurements of atmospheric carbonyl sulfide (OCS), OC34S and O13CS. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106554.	1.1	8
45	Reprint of: The instrumental line shape of the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106713.	1.1	0
46	Properties of polar mesospheric clouds from ACE satellite infrared spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106518.	1.1	3
47	Trends in halogen-containing molecules measured by the Atmospheric Chemistry Experiment (ACE) satellite. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106619.	1.1	12
48	Ozone isotopologue measurements from the Atmospheric Chemistry Experiment (ACE). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106547.	1.1	3
49	Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335.	1.2	34
50	MARVEL analysis of the measured high-resolution spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si105.svg"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>14</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math>NH. Journal of Molecular Spectroscopy, 2019, 362, 69-76.	0.4	20
51	Infrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 226-229.	1.1	13
52	The instrumental line shape of the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 1-12.	1.1	7
53	Tangent height determination from the N2-continuum for the Atmospheric Chemistry Experiment Fourier transform spectrometer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106481.	1.1	4
54	He and H2 broadened propane cross sections in the 3ÂÂµm region at cold temperatures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 104-107.	1.1	3

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55	Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 172-221.	1.1	41
56	Atlas of Experimental and Theoretical High-temperature Methane Cross Sections from TÂ=Â295 to 1000 K in the Near-infrared. Astrophysical Journal, Supplement Series, 2019, 240, 4.	3.0	20
57	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorineâ€Containing Very Short Lived Substances. Geophysical Research Letters, 2019, 46, 1032-1039.	1.5	10
58	REPRINT OF: Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106708.	1.1	3
59	Improved Ultraviolet and Infrared Oscillator Strengths for OH⁺. Astrophysical Journal, 2018, 855, 21.	1.6	11
60	Line Lists for LiF and LiCl in the X¹Î£⁺ Ground State. Astrophysical Journal, Supplement Series, 2018, 235, 8.	3.0	11
61	Analysis of the red and green optical absorption spectrum of gas phase ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 209, 224-231.	1.1	9
62	MLS measurements of stratospheric hydrogen cyanide during the 2015â€“2016 El NiÃ±o event. Atmospheric Chemistry and Physics, 2018, 18, 691-703.	1.9	10
63	Line list for the ground state of CaF. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 44-51.	1.1	12
64	Fourier Transform Techniques. , 2018, , 81-81.		2
65	Trends in stratospheric HCl from the ACE satellite mission. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 126-129.	1.1	11
66	Spectroscopic Constants and Line Positions for TiO Singlet States. Astrophysical Journal, Supplement Series, 2018, 236, 46.	3.0	9
67	IR absorption cross sections of propane broadened by H2 and He between 150â€¯K and 210â€¯K. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 68-71.	1.1	5
68	Line Lists for AlF and AlCl in the X¹Î£⁺ Ground State. Astrophysical Journal, Supplement Series, 2018, 237, 8.	3.0	33
69	A new line list for the A<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si22.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup><mml:msup><mml:mstyle mathvariant="normal"><mml:mi>Î£</mml:mi></mml:mstyle><mml:mo>+</mml:mo></mml:msup><mml:mo>â^'</mml:mo><mml:msup><mml:mstyle mathvariant="normal"><mml:mi>Î</mml:mi></mml:mstyle></mml:mrow></mml:math> electronic transition of OH. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 416-424.	1.1	34
70	Fourier Transform Spectroscopy of the C³Î”â€“X³Î” Transition of TiO in Support of Exoplanet Spectroscopy. Astrophysical Journal, 2018, 863, 36.	1.6	8
71	A new linelist for the A3Î â€“<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mi>X</mml:mi><mml:mn>3</mml:mn></mml:msup><mml:msup><mml:mstyle mathvariant="normal"><mml:mi>Î£</mml:mi></mml:mstyle><mml:mo>â^'</mml:mo></mml:msup></mml:mrow></mml:math> transition of the NH free radical. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 29-34.	1.1	23
72	Retrieval of HCFC-142b (CH 3 CClF 2) from ground-based high-resolution infrared solar spectra: Atmospheric increase since 1989 and comparison with surface and satellite measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 96-105.	1.1	10

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73	New and improved infra-red absorption cross sections and ACE-FTS retrievals of carbon tetrachloride (CCl4). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 139-149.	1.1	12
74	Infrared absorption cross sections of propane broadened by hydrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 141-144.	1.1	10
75	Fourier Transform Spectroscopy of the A³Îâ€“X³Î£^{â^'} Transition of OH⁺. Astrophysical Journal, 2017, 840, 81.	1.6	11
76	Infrared absorption spectra of hot ammonia. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 410-416.	1.1	11
77	The role of sulfur dioxide in stratospheric aerosol formation evaluated by using in situ measurements in the tropical lower stratosphere. Geophysical Research Letters, 2017, 44, 4280-4286.	1.5	16
78	Line list for the MgF ground state. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 511-516.	1.1	13
79	Helium broadened propane absorption cross sections in the far-IR. Molecular Astrophysics, 2017, 8, 36-39.	1.7	7
80	A Nearâ€€Global Atmospheric Distribution of N₂O Isotopologues. Geophysical Research Letters, 2017, 44, 10,735.	1.5	10
81	The HITRAN2016 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 3-69.	1.1	2,840
82	ExoMol line list â€“ XXI. Nitric Oxide (NO). Monthly Notices of the Royal Astronomical Society, 2017, 470, 882-897.	1.6	66
83	Global climatology based on the ACE-FTS version 3.5 dataset: Addition of mesospheric levels and carbon-containing species in the UTLS. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 52-62.	1.1	26
84	The Atmospheric Chemistry Experiment (ACE). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 3-16.	1.1	110
85	Optimized approach to retrieve information on atmospheric carbonyl sulfide (OCS) above the Jungfraujoch station and change in its abundance since 1995. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 81-95.	1.1	15
86	ACE-FTS ozone, water vapour, nitrous oxide, nitric acid, and carbon monoxide profile comparisons with MIPAS and MLS. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 63-80.	1.1	43
87	Satellite remote sensing and spectroscopy: Joint ACE-Odin meeting, October 2015. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 1-2.	1.1	0
88	Depletion of ozone and reservoir species of chlorine and nitrogen oxide in the lower Antarctic polar vortex measured from aircraft. Geophysical Research Letters, 2017, 44, 6440-6449.	1.5	12
89	MIPAS IMK/IAA carbon tetrachloride (CCl₄) retrieval and first comparison with other instruments. Atmospheric Measurement Techniques, 2017, 10, 2727-2743.	1.2	2
90	Global stratospheric measurements of the isotopologues of methane from the Atmospheric Chemistry Experiment Fourier transform spectrometer. Atmospheric Measurement Techniques, 2016, 9, 1095-1111.	1.2	14

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91	MIPAS IMK/IAA CFC-11 (CCl₃F) and CFC-12 (CCl₂F₂) measurements: accuracy, precision and long-term stability. Atmospheric Measurement Techniques, 2016, 9, 3355-3389.	1.2	15
92	Nitrous oxide in the atmosphere: First measurements of a lower thermospheric source. Geophysical Research Letters, 2016, 43, 2866-2872.	1.5	15
93	Study of infrared emission spectroscopy for the B1Î”gâ€“A1Îu and Bâ€²1Î£g+â€“A1Îu systems of C2. Journal of Chemical Physics, 2016, 144, 064301.	1.2	5
94	EXPERIMENTAL ENERGY LEVELS AND PARTITION FUNCTION OF THE ¹²C₂ MOLECULE. Astrophysical Journal, Supplement Series, 2016, 224, 44.	3.0	45
95	Introduction to the special issue on atmospheric spectroscopy. Journal of Molecular Spectroscopy, 2016, 323, 1.	0.4	0
96	Temperature-dependent high resolution absorption cross sections of propane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 219-224.	1.1	19
97	High resolution absorption cross sections for propylene in the 3Âµm region at high temperatures. Molecular Astrophysics, 2016, 3-4, 16-20.	1.7	7
98	Upper tropospheric water vapour variability at high latitudes â€“ Part 1: Influence of the annular modes. Atmospheric Chemistry and Physics, 2016, 16, 3265-3278.	1.9	4
99	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphereâ€“lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 13541-13559.	1.9	15
100	Water vapour variability in the high-latitude upper troposphere â€“ Part 2: Impact of volcanic eruptions. Atmospheric Chemistry and Physics, 2016, 16, 2207-2219.	1.9	8
101	Version 1.3 AIM SOFIE measured methane (CH₄): Validation and seasonal climatology. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,158.	1.2	6
102	Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. Atmospheric Chemistry and Physics, 2016, 16, 10501-10519.	1.9	14
103	Near-global distribution of CO isotopic fractionation in the Earthâ€™s atmosphere. Journal of Molecular Spectroscopy, 2016, 323, 59-66.	0.4	4
104	Molecular line lists: The ro-vibrational spectra of NaF and KF. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 169, 104-110.	1.1	7
105	Seasonal variations of acetone in the upper troposphereâ€“lower stratosphere of the northern midlatitudes as observed by ACE-FTS. Journal of Molecular Spectroscopy, 2016, 323, 67-77.	0.4	9
106	Line strengths of rovibrational and rotational transitions in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0043.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="normal">X</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup><mml:mi mathvariant="normal">Î</mml:mi></mml:math>ground state of OH. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 168, 142-157.	1.1	106
107	Validation of ACE-FTS version 3.5 NO_{<i>y</i>} species profiles using correlative satellite measurements. Atmospheric Measurement Techniques, 2016, 9, 5781-5810.	1.2	25
108	The Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS): Mission and Validation Status. , 2016, , .		0

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109	DIVISION B COMMISSION 14 WORKING GROUP: MOLECULAR DATA. Proceedings of the International Astronomical Union, 2015, 11, 137-152.	0.0	0
110	High-resolution absorption cross sections of C2H6 at elevated temperatures. Molecular Astrophysics, 2015, 1, 20-25.	1.7	14
111	EMPIRICAL LINE LISTS AND ABSORPTION CROSS SECTIONS FOR METHANE AT HIGH TEMPERATURES. Astrophysical Journal, 2015, 813, 12.	1.6	50
112	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	1.5	42
113	Simulation of energetic particle precipitation effects during the 2003â€“2004 Arctic winter. Journal of Geophysical Research: Space Physics, 2015, 120, 5035-5048.	0.8	53
114	Note: Improved line strengths of rovibrational and rotational transitions within the X3Î£â¯ ground state of NH. Journal of Chemical Physics, 2015, 143, 026101.	1.2	22
115	Global OZone Chemistry And Related trace gas Data records for the Stratosphere (GOZCARDS): methodology and sample results with a focus on HCl, H₂O, and O₃. Atmospheric Chemistry and Physics, 2015, 15, 10471-10507.	1.9	81
116	Relative drifts and biases between six ozone limb satellite measurements from the last decade. Atmospheric Measurement Techniques, 2015, 8, 4369-4381.	1.2	13
117	Relationship between Dipole Moments and Harmonic Vibrational Frequencies in Diatomic Molecules. Journal of Physical Chemistry A, 2015, 119, 1435-1438.	1.1	14
118	Relationships between dipole moments of diatomic molecules. Physical Chemistry Chemical Physics, 2015, 17, 4708-4713.	1.3	7
119	Relative high-resolution absorption cross sections of C2H6 at low temperatures. Journal of Molecular Spectroscopy, 2015, 315, 102-106.	0.4	8
120	Simultaneous analysis of the Ballik-Ramsay and Phillips systems of C2 and observation of forbidden transitions between singlet and triplet states. Journal of Chemical Physics, 2015, 142, 064317.	1.2	27
121	Atmospheric Chemistry Experiment, ACE: Recent Results. , 2015, , .		2
122	Retrieval and validation of carbon dioxide, methane and water vapor for the Canary Islands IR-laser occultation experiment. Atmospheric Measurement Techniques, 2015, 8, 3315-3336.	1.2	5
123	Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS) Version 3.5 Validation. , 2015, , .		0
124	Derivation of tropospheric methane from TCCON CH₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	1.2	28
125	Rotational analysis of the B2Î£+â€“X2Î£+ transition of the 13C15N molecule. Journal of Molecular Spectroscopy, 2014, 302, 34-35.	0.4	3
126	Retrieval of carbon dioxide vertical profiles from solar occultation observations and associated error budgets for ACE-FTS and CASS-FTS. Atmospheric Measurement Techniques, 2014, 7, 2243-2262.	1.2	18

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127	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	225
128	ExoMol molecular line lists V: the ro-vibrational spectra of NaCl and KCl. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1821-1829.	1.6	45
129	Spectrometric monitoring of atmospheric carbon tetrafluoride (CF₄) above the Jungfraujoch station since 1989: evidence of continued increase but at a slowing rate. Atmospheric Measurement Techniques, 2014, 7, 333-344.	1.2	7
130	Line strengths of rovibrational and rotational transitions within the ${m X}^3Sigma m {^-}$X3Î£â¯ ground state of NH. Journal of Chemical Physics, 2014, 141, 054310.	1.2	31
131	Near-infrared wavelength calibration of astrophysical spectrographs with the emission spectrum of the CN molecule. , 2014, , .		0
132	LINE LISTS FOR THE A ² Î- X ² Î£ ⁺ (RED) AND B ² Î£ ⁺ - X ² Î£ ⁺. Astrophysical Journal, Supplement Series, 2014, 214, 26.	3.0	150
133	SEARCHING FOR CHEMICAL SIGNATURES OF MULTIPLE STELLAR POPULATIONS IN THE OLD, MASSIVE OPEN CLUSTER NGC 6791. Astrophysical Journal, 2014, 796, 68.	1.6	64
134	Small carbon chains in circumstellar envelopes. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3721-3728.	1.6	6
135	IMPROVED LINE DATA FOR THE SWAN SYSTEM ¹² C ¹³ C ISOTOPOLOGUE. Astrophysical Journal, Supplement Series, 2014, 211, 5.	3.0	45
136	Fourier transform emission spectroscopy of the near infrared transitions of CeS. Journal of Molecular Spectroscopy, 2014, 299, 6-10.	0.4	1
137	A database of water transitions from experiment and theory (IUPAC Technical Report). Pure and Applied Chemistry, 2014, 86, 71-83.	0.9	76
138	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	13.7	110
139	ACE infrared spectral atlases of the Earth×³s atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 148, 18-21.	1.1	11
140	IUPAC critical evaluation of the rotationalâ€“vibrational spectra of water vapor. Part IV. Energy levels and transition wavenumbers for D216O, D217O, and D218O. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 142, 93-108.	1.1	80
141	EINSTEIN A COEFFICIENTS AND OSCILLATOR STRENGTHS FOR THE A ² Î- X ² Î£ ⁺ (RED) AND B ² Î£ ⁺ -X ² Î£. Astrophysical Journal, Supplement Series, 2014, 210, 23.	3.0	116
142	Einstein A-values and oscillator strengths of the A2ĐŸâ€“X2Î£+ system of CP. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 138, 107-115.	1.1	27
143	Molecular opacities for exoplanets. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130087.	1.6	36
144	Comparison of upper tropospheric carbon monoxide from MOPITT, ACEâ€FTS, and HIPPOâ€QCLS. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,144.	1.2	9

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145	Drift-corrected trends and periodic variations in MIPAS IMK/IAA ozone measurements. Atmospheric Chemistry and Physics, 2014, 14, 2571-2589.	1.9	81
146	Global stratospheric fluorine inventory for 2004â€“2009 from Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS) measurements and SLIMCAT model simulations. Atmospheric Chemistry and Physics, 2014, 14, 267-282.	1.9	15
147	Technical Note: SWIFT â€“ a fast semi-empirical model for polar stratospheric ozone loss. Atmospheric Chemistry and Physics, 2014, 14, 6545-6555.	1.9	4
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