

Peter Bernath

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

752
papers

30,406
citations

70
h-index

143
g-index

820
ext. papers

33,934
ext. citations

4
avg, IF

6.84
L-index

#	Paper	IF	Citations
752	Visible Opacity of M Dwarfs and Hot Jupiters: The TiO B π π Band System. <i>Astrophysical Journal</i> , 2022 , 926, 39	4.7	
751	Wildfire smoke destroys stratospheric ozone.. <i>Science</i> , 2022 , 375, 1292-1295	33.3	4
750	On the stratospheric chemistry of midlatitude wildfire smoke.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117325119	11.5	7
749	Line parameters for hot methane B band broadened by H ₂ from 296 to 1100 K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 263, 107557	2.1	
748	Linemake: An Atomic and Molecular Line List Generator. <i>Research Notes of the AAS</i> , 2021 , 5, 92	0.8	8
747	HOCl retrievals from the Atmospheric Chemistry Experiment. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 264, 107559	2.1	2
746	Fifteen Years of HFC-134a Satellite Observations: Comparisons With SLIMCAT Calculations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033208	4.4	2
745	Line-of-Sight Winds and Doppler Effect Smearing in ACE-FTS Solar Occultation Measurements. <i>Atmosphere</i> , 2021 , 12, 680	2.7	
744	Absorption cross sections in the CH stretching region for propene broadened by helium and nitrogen. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 107738	2.1	0
743	Infrared absorption cross sections for hot isobutane in the CH stretching region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 269, 107644	2.1	1
742	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001321	3.1	28
741	The Atmospheric Chemistry Experiment Fourier transform spectrometer (ACE-FTS) version 4.1 retrievals: Trends and seasonal distributions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 259, 107409	2.1	4
740	Stratospheric Fluorine as a Tracer of Circulation Changes: Comparison Between Infrared Remote-Sensing Observations and Simulations With Five Modern Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034995	4.4	3
739	The first remote-sensing measurements of HFC-32 in the Earth's atmosphere by the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 272, 107804	2.1	2
738	Line lists for the b π -X π and a π -X π transitions of SO. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 272, 107772	2.1	1
737	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 277, 107949	2.1	96
736	Comment on erratum to "Infrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gases" <i>J Quant Spectrosc Radiat Transf</i> 227 (2019) 226-229. <i>J Quant Spectrosc Radiat Transf</i> 242 (2020) 106771. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 273, 107840	2.1	

735	Near-infrared and Visible Opacities of S-type Stars: The B1 \times 1 μ m Band System of ZrO. <i>Astrophysical Journal</i> , 2021 , 923, 234	4.7	
734	Stratospheric and mesospheric H ₂ O and CH ₄ trends from the ACE satellite mission. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 255, 107268	2.1	1
733	Infrared transmission spectra of hot ammonia in the 4800-9000 cm ⁻¹ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 246, 106911	2.1	2
732	Version 4 retrievals for the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS) and imagers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 247, 106939	2.1	29
731	Sixteen-year trends in atmospheric trace gases from orbit. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 253, 107178	2.1	13
730	Neopentane Vibrations: High Resolution Spectra and Anharmonic Calculations. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3438-3444	2.8	3
729	Near-infrared Opacity of Late M Dwarfs and Hot Jupiters: The E 3 \times 3 μ m Transition of TiO. <i>Astrophysical Journal</i> , 2020 , 904, 24	4.7	1
728	Measured Optical Absorption Cross Sections of TiO. <i>Astrophysical Journal</i> , 2020 , 895, 87	4.7	4
727	Erratum to [Infrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gases] Quant Spectrosc Radiat Transf 227 (2019) 226-229. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 242, 106771	2.1	3
726	Near infrared absorption cross sections for ethane broadened by hydrogen and nitrogen. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 242, 106780	2.1	4
725	Absorption cross sections for ethane broadened by hydrogen and helium in the 3.3 micron region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 253, 107131	2.1	2
724	Absorption cross sections for neopentane broadened by nitrogen in the 3.3 μ m region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 251, 107034	2.1	2
723	Pyrocumulonimbus Stratospheric Plume Injections Measured by the ACE-FTS. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088442	4.9	7
722	Cyclohexane Vibrations: High-Resolution Spectra and Anharmonic Local Mode Calculations. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9991-10000	2.8	1
721	MoLLIST: Molecular Line Lists, Intensities and Spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 240, 106687	2.1	34
720	N ₂ and H ₂ broadened isobutane infrared absorption cross sections and butane upper limits on Titan. <i>Icarus</i> , 2020 , 344, 113460	3.8	6
719	Line list for the a1 \times 3 μ m transition of SO: Assignment of the 1.69 micron feature on Io. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 240, 106686	2.1	2
718	Erratum to [Infrared absorption spectra of hot ammonia] Quant Spectrosc Radiat Transf 203 (2017) 410-416]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 245, 106870	2.1	1

717	Ozone isotopologue measurements from the Atmospheric Chemistry Experiment (ACE). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106547	2.1	1
716	Recent Trends in Stratospheric Chlorine From Very Short-Lived Substances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2318-2335	4.4	22
715	MARVEL analysis of the measured high-resolution spectra of ^{14}NH . <i>Journal of Molecular Spectroscopy</i> , 2019 , 362, 69-76	1.3	18
714	Infrared absorption cross sections of isobutane with hydrogen and nitrogen as broadening gases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 227, 226-229	2.1	10
713	The instrumental line shape of the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 230, 1-12	2.1	4
712	Tangent height determination from the N_2 -continuum for the Atmospheric Chemistry Experiment Fourier transform spectrometer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106481	2.1	3
711	He and H_2 broadened propane cross sections in the $3\text{ }\mu\text{m}$ region at cold temperatures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 232, 104-107	2.1	3
710	Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 230, 172-221	2.1	23
709	Atlas of Experimental and Theoretical High-temperature Methane Cross Sections from $T = 295$ to 1000 K in the Near-infrared. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 240, 4	8	13
708	ExoMol line list XXXIV. A rovibrational line list for phosphinidene (PH) in its $X^3\Sigma^-$ and $a^1\Delta$ electronic states. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 2332-2342	4.3	5
707	Low altitude CO_2 from the Atmospheric Chemistry Experiment (ACE) satellite. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106528	2.1	5
706	Trends in atmospheric HFC-23 (CHF_3) and HFC-134a abundances. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106540	2.1	7
705	Isobutane Infrared Bands: Partial Rotational Assignments, ab Initio Calculations, and Local Mode Analysis. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6185-6193	2.8	7
704	Global measurements of atmospheric carbonyl sulfide (OCS), $\text{OC}34\text{S}$ and $\text{O}13\text{CS}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106554	2.1	5
703	Reprint of: The instrumental line shape of the atmospheric chemistry experiment Fourier transform spectrometer (ACE-FTS). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106713	2.1	5
702	Properties of polar mesospheric clouds from ACE satellite infrared spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106518	2.1	1
701	Trends in halogen-containing molecules measured by the Atmospheric Chemistry Experiment (ACE) satellite. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106619	2.1	6
700	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorine-Containing Very Short Lived Substances. <i>Geophysical Research Letters</i> , 2019 , 46, 1032-1039	4.9	6

699	REPRINT OF: Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 238, 106708	2.1	2
698	Improved Ultraviolet and Infrared Oscillator Strengths for OH+. <i>Astrophysical Journal</i> , 2018 , 855, 21	4.7	8
697	Line Lists for LiF and LiCl in the X 1 Σ^+ Ground State. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 235, 8	8	7
696	Analysis of the red and green optical absorption spectrum of gas phase ammonia. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 209, 224-231	2.1	8
695	MLS measurements of stratospheric hydrogen cyanide during the 2015-2016 El Niño event. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 691-703	6.8	9
694	Line list for the ground state of CaF. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 210, 44-51	2.1	8
693	Trends in stratospheric HCl from the ACE satellite mission. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 217, 126-129	2.1	7
692	Spectroscopic Constants and Line Positions for TiO Singlet States. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 46	8	8
691	IR absorption cross sections of propane broadened by H ₂ and He between 150 K and 210 K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 218, 68-71	2.1	4
690	Line Lists for AlF and AlCl in the X 1 Σ^+ Ground State. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 237, 8	8	22
689	A new line list for the A ₂ Σ^+ electronic transition of OH. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 217, 416-424	2.1	21
688	Fourier Transform Spectroscopy of the C 3 Σ^+ Transition of TiO in Support of Exoplanet Spectroscopy. <i>Astrophysical Journal</i> , 2018 , 863, 36	4.7	7
687	A new linelist for the A ₃ Σ^+ transition of the NH free radical. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 217, 29-34	2.1	18
686	Fourier Transform Techniques 2018 , 81-81		1
685	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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 96-105	2.1	10
684	New and improved infra-red absorption cross sections and ACE-FTS retrievals of carbon tetrachloride (CCl ₄). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 139-149	2.1	11
683	Infrared absorption cross sections of propane broadened by hydrogen. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 198, 141-144	2.1	10
682	Fourier Transform Spectroscopy of the A ₃ Σ^+ transition of OH+. <i>Astrophysical Journal</i> , 2017 , 840, 81	4.7	7

681	Infrared absorption spectra of hot ammonia. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 203, 410-416	2.1	10
680	The Role of Sulfur Dioxide in Stratospheric Aerosol Formation Evaluated Using In-Situ Measurements in the Tropical Lower Stratosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 4280-4286	4.9	16
679	Line list for the MgF ground state. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 203, 511-516	2.1	12
678	MIPAS IMK/IAA carbon tetrachloride (CCl ₄) retrieval and first comparison with other instruments. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2727-2743	4	2
677	Helium broadened propane absorption cross sections in the far-IR. <i>Molecular Astrophysics</i> , 2017 , 8, 36-39	1.7	7
676	A Near-Global Atmospheric Distribution of N ₂ O Isotopologues. <i>Geophysical Research Letters</i> , 2017 , 44, 10,735-10,743	4.9	5
675	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 203, 3-69	2.1	1701
674	ExoMol line list LXXI. Nitric Oxide (NO). <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 882-897	4.3	51
673	Global climatology based on the ACE-FTS version 3.5 dataset: Addition of mesospheric levels and carbon-containing species in the UTLS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 52-62	2.1	19
672	The Atmospheric Chemistry Experiment (ACE). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 3-16	2.1	82
671	Optimized approach to retrieve information on atmospheric carbonyl sulfide (OCS) above the Jungfraujoch station and change in its abundance since 1995. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 81-95	2.1	14
670	ACE-FTS ozone, water vapour, nitrous oxide, nitric acid, and carbon monoxide profile comparisons with MIPAS and MLS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 63-80	2.1	33
669	Satellite remote sensing and spectroscopy: Joint ACE-Odin meeting, October 2015. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 1-2	2.1	
668	Depletion of ozone and reservoir species of chlorine and nitrogen oxide in the lower Antarctic polar vortex measured from aircraft. <i>Geophysical Research Letters</i> , 2017 , 44, 6440-6449	4.9	10
667	High resolution absorption cross sections for propylene in the 3 μm region at high temperatures. <i>Molecular Astrophysics</i> , 2016 , 3-4, 16-20	1.7	7
666	Upper tropospheric water vapour variability at high latitudes [Part 1: Influence of the annular modes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3265-3278	6.8	3
665	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere/lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13541-13559	6.8	12
664	Water vapour variability in the high-latitude upper troposphere [Part 2: Impact of volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2207-2219	6.8	4

663	Version 1.3 AIM SOFIE measured methane (CH ₄): Validation and seasonal climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,158-13,179	4.4	5
662	Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10501-10519	6.8	13
661	Near-global distribution of CO isotopic fractionation in the Earth's atmosphere. <i>Journal of Molecular Spectroscopy</i> , 2016 , 323, 59-66	1.3	3
660	Molecular line lists: The ro-vibrational spectra of NaF and KF. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 169, 104-110	2.1	5
659	Seasonal variations of acetone in the upper troposphere/lower stratosphere of the northern midlatitudes as observed by ACE-FTS. <i>Journal of Molecular Spectroscopy</i> , 2016 , 323, 67-77	1.3	6
658	Line strengths of rovibrational and rotational transitions in the X ² Σ ⁺ ground state of OH. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 168, 142-157	2.1	64
657	Validation of ACE-FTS version 3.5 NO ₂ species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5781-5810	4	19
656	Global stratospheric measurements of the isotopologues of methane from the Atmospheric Chemistry Experiment Fourier transform spectrometer. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 1095-1111	4	14
655	MIPAS IMK/IAA CFC-11 (CCl ₃ F) and CFC-12 (CCl ₂ F ₂) measurements: accuracy, precision and long-term stability. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3355-3389	4	12
654	Nitrous oxide in the atmosphere: First measurements of a lower thermospheric source. <i>Geophysical Research Letters</i> , 2016 , 43, 2866-2872	4.9	12
653	Study of infrared emission spectroscopy for the B(1)Σ ⁺ -A(1)Σ ⁺ and B'(1)Σ ⁺ (+)-A(1)Σ ⁺ systems of C ₂ . <i>Journal of Chemical Physics</i> , 2016 , 144, 064301	3.9	3
652	EXPERIMENTAL ENERGY LEVELS AND PARTITION FUNCTION OF THE 12 C 2 MOLECULE. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 224, 44	8	37
651	Temperature-dependent high resolution absorption cross sections of propane. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 182, 219-224	2.1	14
650	Relative high-resolution absorption cross sections of C ₂ H ₆ at low temperatures. <i>Journal of Molecular Spectroscopy</i> , 2015 , 315, 102-106	1.3	7
649	Simultaneous analysis of the Ballik-Ramsay and Phillips systems of C ₂ and observation of forbidden transitions between singlet and triplet states. <i>Journal of Chemical Physics</i> , 2015 , 142, 064317	3.9	21
648	DIVISION B COMMISSION 14 WORKING GROUP: MOLECULAR DATA. <i>Proceedings of the International Astronomical Union</i> , 2015 , 11, 137-152	0.1	
647	High-resolution absorption cross sections of C ₂ H ₆ at elevated temperatures. <i>Molecular Astrophysics</i> , 2015 , 1, 20-25	1.7	12
646	EMPIRICAL LINE LISTS AND ABSORPTION CROSS SECTIONS FOR METHANE AT HIGH TEMPERATURES. <i>Astrophysical Journal</i> , 2015 , 813, 12	4.7	46

645	Growth in stratospheric chlorine from short-lived chemicals not controlled by the Montreal Protocol. <i>Geophysical Research Letters</i> , 2015 , 42, 4573-4580	4.9	33
644	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5035-5048	2.6	45
643	Note: Improved line strengths of rovibrational and rotational transitions within the X(3) Σ^+ ground state of NH. <i>Journal of Chemical Physics</i> , 2015 , 143, 026101	3.9	17
642	Global Ozone Chemistry And Related trace gas Data records for the Stratosphere (GOZCARDS): methodology and sample results with a focus on HCl, H ₂ O, and O ₃ . <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10471-10507	6.8	71
641	Relative drifts and biases between six ozone limb satellite measurements from the last decade. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4369-4381	4	12
640	Relationship between dipole moments and harmonic vibrational frequencies in diatomic molecules. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1435-8	2.8	9
639	Relationships between dipole moments of diatomic molecules. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4708-13	3.6	6
638	Atmospheric Chemistry Experiment, ACE: Recent Results 2015 ,		2
637	Retrieval and validation of carbon dioxide, methane and water vapor for the Canary Islands IR-laser occultation experiment. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3315-3336	4	4
636	Fourier transform emission spectroscopy of the near infrared transitions of CeS. <i>Journal of Molecular Spectroscopy</i> , 2014 , 299, 6-10	1.3	1
635	A database of water transitions from experiment and theory (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014 , 86, 71-83	2.1	65
634	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. <i>Nature</i> , 2014 , 515, 104-7	50.4	88
633	ACE infrared spectral atlases of the Earth's atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 148, 18-21	2.1	9
632	IUPAC critical evaluation of the rotational-vibrational spectra of water vapor. Part IV. Energy levels and transition wavenumbers for D ₂ ¹⁶ O, D ₂ ¹⁷ O, and D ₂ ¹⁸ O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 142, 93-108	2.1	67
631	EINSTEIN A COEFFICIENTS AND OSCILLATOR STRENGTHS FOR THE A $2 \Sigma^+ X 2 \Sigma^+$ (RED) AND B $2 \Sigma^- X 2 \Sigma^+$ (VIOLET) SYSTEMS AND ROVIBRATIONAL TRANSITIONS IN THE. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 210, 23	8	83
630	Einstein A-values and oscillator strengths of the A $2 \Sigma^+ X 2 \Sigma^+$ system of CP. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 138, 107-115	2.1	22
629	Molecular opacities for exoplanets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130087	3	32
628	Comparison of upper tropospheric carbon monoxide from MOPITT, ACE-FTS, and HIPPO-QCLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,144-14,164	4.4	7

627	Drift-corrected trends and periodic variations in MIPAS IMK/IAA ozone measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2571-2589	6.8	63
626	Global stratospheric fluorine inventory for 2004-2009 from Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS) measurements and SLIMCAT model simulations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 267-282	6.8	13
625	Technical Note: SWIFT - a fast semi-empirical model for polar stratospheric ozone loss. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6545-6555	6.8	3
624	Middle atmospheric changes caused by the January and March 2012 solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1025-1038	6.8	35
623	Satellite observations of stratospheric carbonyl fluoride. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11915-11933	6.8	10
622	Derivation of tropospheric methane from TCCON CH ₄ and HF total column observations. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2907-2918	4	23
621	Rotational analysis of the B ₂ ⁺ transition of the ¹³ C ¹⁵ N molecule. <i>Journal of Molecular Spectroscopy</i> , 2014 , 302, 34-35	1.3	2
620	Retrieval of carbon dioxide vertical profiles from solar occultation observations and associated error budgets for ACE-FTS and CASS-FTS. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2243-2262	4	17
619	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014 , 86, 1931-1943	2.1	186
618	ExoMol molecular line lists V: the ro-vibrational spectra of NaCl and KCl. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 442, 1821-1829	4.3	38
617	Spectrometric monitoring of atmospheric carbon tetrafluoride (CF ₄) above the Jungfraujoch station since 1989: evidence of continued increase but at a slowing rate. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 333-344	4	6
616	Line strengths of rovibrational and rotational transitions within the X ¹ ground state of NH. <i>Journal of Chemical Physics</i> , 2014 , 141, 054310	3.9	27
615	LINE LISTS FOR THE A 2 Π X 2 Π (RED) AND B 2 Π - X 2 Π (VIOLET) SYSTEMS OF CN, 13 C 1. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 214, 26	8	125
614	SEARCHING FOR CHEMICAL SIGNATURES OF MULTIPLE STELLAR POPULATIONS IN THE OLD, MASSIVE OPEN CLUSTER NGC 6791. <i>Astrophysical Journal</i> , 2014 , 796, 68	4.7	57
613	Small carbon chains in circumstellar envelopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 3721-3728	4.3	5
612	IMPROVED LINE DATA FOR THE SWAN SYSTEM 12 C 13 C ISOTOPOLOGUE. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 5	8	38
611	ACE-FTS version 3.0 data set: validation and data processing update. <i>Annals of Geophysics</i> , 2014 , 56,	1.1	31
610	Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3971-3987	4	19

609	Accurate analytic potential and Born-Oppenheimer breakdown functions for MgH and MgD from a direct-potential-fit data analysis. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13373-87	2.8	28
608	The HITRAN2012 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 130, 4-50	2.1	2394
607	Satellite observations of the global distribution of hydrogen peroxide (H ₂ O ₂) from ACE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 115, 66-77	2.1	10
606	Fourier transform emission spectroscopy of the E ₂ -X ₂ transition of BaH. <i>Journal of Molecular Spectroscopy</i> , 2013 , 283, 18-21	1.3	12
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42	Ethane, ethyne and carbon monoxide concentrations in the upper troposphere and lower stratosphere from ACE and GEOS-Chem: a comparison study		1
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