Peter Bernath

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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
 30,406
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 820
 33,934
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 ext. papers
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#	Paper	IF	Citations
75²	The HITRAN 2008 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009 , 110, 533-572	2.1	2760
751	The HITRAN2012 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 130, 4-50	2.1	2394
75°	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 203, 3-69	2.1	1701
749	Atmospheric Chemistry Experiment (ACE): Mission overview. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	651
748	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1351-1362	4	345
747	Asian monsoon transport of pollution to the stratosphere. <i>Science</i> , 2010 , 328, 611-3	33.3	331
746	Retrievals for the atmospheric chemistry experiment Fourier-transform spectrometer. <i>Applied Optics</i> , 2005 , 44, 7218-31	1.7	318
745	Validation of the Aura Microwave Limb Sounder temperature and geopotential height measurements. <i>Journal of Geophysical Research</i> , 2008 , 113,		312
744	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1989-2013	6.8	226
743	Detection of C3 in the Circumstellar Shell of IRC+10216. Science, 1988, 241, 1319-22	33.3	224
742	Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements. <i>Journal of Geophysical Research</i> , 2007 , 112,		214
741	Experimental Energy Levels of the Water Molecule. <i>Journal of Physical and Chemical Reference Data</i> , 2001 , 30, 735-831	4.3	214
740	Detection of C5 in the Circumstellar Shell of IRC+10216. <i>Science</i> , 1989 , 244, 562-4	33.3	214
739	Validation of Aura Microwave Limb Sounder stratospheric ozone measurements. <i>Journal of Geophysical Research</i> , 2008 , 113,		211
738	Fourier transform spectroscopy of the A3\(\text{L}\)X3\(\text{L}\)ransition of NH. <i>Journal of Molecular Spectroscopy</i> , 1986 , 120, 381-402	1.3	195
737	. IEEE Transactions on Geoscience and Remote Sensing, 2006 , 44, 1106-1121	8.1	191
736	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

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735	IUPAC critical evaluation of the rotational ibrational spectra of water vapor, Part III: Energy levels and transition wavenumbers for H216O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 117, 29-58	2.1	185	
734	IUPAC critical evaluation of the rotational librational spectra of water vapor. Part linergy levels and transition wavenumbers for H217O and H218O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009 , 110, 573-596	2.1	166	
733	The infrared spectra of uracil, thymine, and adenine in the gas phase. <i>Chemical Physics Letters</i> , 1997 , 269, 39-48	2.5	166	
732	Space-based constraints on the production of nitric oxide by lightning. <i>Journal of Geophysical Research</i> , 2007 , 112,		157	
731	Chemical isolation in the Asian monsoon anticyclone observed in Atmospheric Chemistry Experiment (ACE-FTS) data. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 757-764	6.8	154	
730	Energetic particle precipitation effects on the Southern Hemisphere stratosphere in 1992\(\bar{\textsf{0}}005\). Journal of Geophysical Research, 2007, 112,		153	
729	IUPAC critical evaluation of the rotational librational spectra of water vapor. Part II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 2160-2184	2.1	151	
728	The spectroscopy of water vapour: Experiment, theory and applications. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1501-1509	3.6	147	
727	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. <i>Journal of Geophysical Research</i> , 2007 , 112,		132	
726	Enhanced NOx in 2006 linked to strong upper stratospheric Arctic vortex. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	132	
725	NOx descent in the Arctic middle atmosphere in early 2009. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	130	
724	A 3000 K laboratory emission spectrum of water. <i>Journal of Chemical Physics</i> , 2005 , 122, 074307	3.9	130	
723	LINE LISTS FOR THE A 2 ¹ / ₂ X 2 ¹ / ₃ (RED) AND B 2 ¹ / ₃ - X 2 ¹ / ₄ (VIOLET) SYSTEMS OF CN, 13 C 1. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 214, 26	8	125	
722	The infrared emission spectrum of gas-phase C60 (buckmisterfullerene). <i>Chemical Physics Letters</i> , 1991 , 176, 504-508	2.5	125	
721	Water on the sun: line assignments based on variational calculations. <i>Science</i> , 1997 , 277, 346-8	33.3	117	
720	Speed-dependent Voigt profile for water vapor in infrared remote sensing applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 105, 525-532	2.1	117	
719	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 287-343	6.8	112	
718	Line Intensities and Molecular Opacities of the FeHF4IX4ITransition. <i>Astrophysical Journal</i> , 2003 , 594, 651-663	4.7	111	

717	Molecular oxygen in the <code>Ophiuchi</code> cloud. <i>Astronomy and Astrophysics</i> , 2007 , 466, 999-1003	5.1	107
716	Line strengths and updated molecular constants for the C2 Swan system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 124, 11-20	2.1	106
715	ACE-FTS observation of a young biomass burning plume: first reported measurements of C ₂ H ₄ , C ₃ H ₆ 0, H ₂ CO and PAN by	6.8	104
7 1 4	infrared occultation from space. Atmospheric Chemistry and Physics, 2007, 7, 5437-5446 The infrared spectrum of the 2 fundamental band of the molecular ion. Canadian Journal of Physics, 1984, 62, 1875-1885	1.1	103
713	High-Temperature Rotational Transitions of Water in Sunspot and Laboratory Spectra. <i>Journal of Molecular Spectroscopy</i> , 1997 , 186, 422-47	1.3	102
712	The near infrared, visible, and near ultraviolet overtone spectrum of water. <i>Journal of Chemical Physics</i> , 1999 , 111, 2444-2450	3.9	101
711	High Resolution Dynamics Limb Sounder: Experiment overview, recovery, and validation of initial temperature data. <i>Journal of Geophysical Research</i> , 2008 , 113,		98
710	On the Origin of Infrared Plateau Features in Proto P lanetary Nebulae. <i>Astrophysical Journal</i> , 2001 , 554, L87-L90	4.7	97
709	Water on the sun. <i>Science</i> , 1995 , 268, 1155-8	33.3	96
708	Difference frequency laser spectroscopy of the B band of the CH3 radical. <i>Journal of Chemical Physics</i> , 1982 , 77, 5284-5287	3.9	96
707	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 277, 107949	2.1	96
706	The ACE-FTS atlas of the infrared solar spectrum. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 521-528	2.1	94
705	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2569-	-2594	91
704	Spectroscopy of the CH free radical. <i>Journal of Molecular Spectroscopy</i> , 1991 , 147, 16-26	1.3	91
703	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. <i>Nature</i> , 2014 , 515, 104-7	50.4	88
702	EINSTEIN A COEFFICIENTS AND OSCILLATOR STRENGTHS FOR THE A 2 1 X 2 1 (RED) AND B 2 1 - X 2 1 (VIOLET) SYSTEMS AND ROVIBRATIONAL TRANSITIONS IN THE. <i>Astrophysical Journal, Supplement Series,</i> 2014 , 210, 23	8	83
701	Low upper limits on the O2abundance from the Odin satellite. <i>Astronomy and Astrophysics</i> , 2003 , 402, L77-L81	5.1	83
700	The Atmospheric Chemistry Experiment (ACE). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 3-16	2.1	82

699	EChO. Experimental Astronomy, 2012, 34, 311-353	1.3	82	
698	New CrH Opacities for the Study of L and Brown Dwarf Atmospheres. <i>Astrophysical Journal</i> , 2002 , 577, 986-992	4.7	82	
697	Theoretical predictions and experimental detection of the SiC molecule. <i>Physical Review Letters</i> , 1988 , 60, 197-199	7.4	82	
696	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		81	
695	Fourier transform spectroscopy of the Swan (d[SUP]3[/SUP]pi[SUB]g[/SUB] - a[SUP]3[/SUP]pi[SUB]u[/SUB]) system of the jet-cooled C2 molecule. <i>Astrophysical Journal</i> , 1994 , 426, 812	4.7	81	
694	Detection of the Infrared Fundamental Band of HeH+. <i>Physical Review Letters</i> , 1982 , 48, 20-22	7.4	80	
693	Validation of the Aura Microwave Limb Sounder HNO3 measurements. <i>Journal of Geophysical Research</i> , 2007 , 112,		79	
692	Vibration-rotation emission spectra and combined isotopomer analyses for the coinage metal hydrides: CuH & CuD, AgH & AgD, and AuH & AuD. <i>Journal of Chemical Physics</i> , 1999 , 110, 11756-11767	3.9	77	
691	Fourier transform jet-emission spectroscopy of the A2[]-X2[] transition of CN. <i>Journal of Molecular Spectroscopy</i> , 1992 , 156, 327-340	1.3	75	
690	Fourier transform emission spectroscopy of the copper dimer. <i>Journal of Molecular Spectroscopy</i> , 1992 , 156, 468-486	1.3	75	
689	A study of stratospheric chlorine partitioning based on new satellite measurements and modeling. Journal of Geophysical Research, 2008 , 113,		73	
688	New observations of the A1🛚-X1🗗+ transition (Phillips system) of C2. <i>Journal of Molecular Spectroscopy</i> , 1988 , 131, 250-260	1.3	73	
687	Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2421-2435	6.8	72	
686	The high Arctic in extreme winters: vortex, temperature, and MLS and ACE-FTS trace gas evolution. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 505-522	6.8	72	
685	Infrared Spectral Atlases of the Sun from NOAO. <i>Astrophysical Journal, Supplement Series</i> , 1996 , 106, 165	8	72	
684	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. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10471-10507	6.8	71	
683	Infrared absorption cross sections for ethane (C2H6) in the 3 th region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 357-363	2.1	70	
682	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl ₃ F and CCl ₂ F ₂ using space-, balloon- and ground-based instrument observations. Atmospheric Chemistry and Physics. 2008. 8, 6199-6221	6.8	69	

681	Trends in atmospheric halogen containing gases since 2004. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2552-2566	2.1	68
68o	High resolution emission spectroscopy of AlCl at 20 \(\Pi\) Journal of Chemical Physics, 1993 , 99, 8363-8370	3.9	68
679	Laser and fourier transform spectroscopy of the transition of SrOH. <i>Journal of Molecular Spectroscopy</i> , 1985 , 114, 163-173	1.3	68
678	IUPAC critical evaluation of the rotational wibrational spectra of water vapor. Part IV. Energy levels and transition wavenumbers for D216O, D217O, and D218O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 142, 93-108	2.1	67
677	Current updates of the water-vapor line list in HITRAN: A new Dietlfor air-broadened half-widths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 108, 389-402	2.1	67
676	The discovery of two new infrared electronic transitions of C2: B1g-A1[u and B?1g+-A1[u. Journal of Molecular Spectroscopy, 1988 , 131, 261-271	1.3	67
675	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopic observations: 2. Using isotopic diagnostics to understand the mid and upper tropospheric moist bias in the tropics and subtropics. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a	9	66
674	Fourier transform jet emission spectroscopy of the B2H-X2H transition of CN. <i>Journal of Molecular Spectroscopy</i> , 1992 , 151, 459-473	1.3	66
673	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
672	Satellite observations and modeling of transport in the upper troposphere through the lower mesosphere during the 2006 major stratospheric sudden warming. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4775-4795	6.8	65
671	The ACE-MAESTRO instrument on SCISAT: description, performance, and preliminary results. <i>Applied Optics</i> , 2007 , 46, 4341-56	1.7	65
670	The A 2EX 2A1 transition of monomethyl calcium: A rotational analysis. <i>Journal of Chemical Physics</i> , 1989 , 91, 4548-4554	3.9	65
669	Rotational and vibrational analysis of the CaF B2\textbf{B}\textbf{Z}\textbf{B} system. Canadian Journal of Physics, 1980, 58, 703-712	1.1	65
668	Line strengths of rovibrational and rotational transitions in the X2 ground state of OH. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 168, 142-157	2.1	64
667	The Swan System of C 2 : A Global Analysis of Fourier Transform Emission Spectra. <i>Astrophysical Journal, Supplement Series</i> , 2007 , 169, 472-484	8	64
666	Comprehensive analysis of the AX spectrum of I2: An application of near-dissociation theory. Journal of Chemical Physics, 1996 , 104, 903-913	3.9	64
665	A spectral line survey of Orion KL in the bands 486-492 and 541-577 GHz with the Odin satellite. <i>Astronomy and Astrophysics</i> , 2007 , 476, 807-827	5.1	64
664	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

663	Global variations of HDO and HDO/H2O ratios in the upper troposphere and lower stratosphere derived from ACE-FTS satellite measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		63
662	Ground state potential energy curve and dissociation energy of MgH. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12495-505	2.8	63
661	Monodromy in the water molecule. Chemical Physics Letters, 2005, 414, 193-197	2.5	63
660	Infrared Fourier transform spectroscopy of XeH. <i>Molecular Physics</i> , 1988 , 64, 425-436	1.7	63
659	Dye laser spectroscopy of the B2 ⊞ -X2⊞ transition of CaOH. <i>Chemical Physics Letters</i> , 1984 , 105, 663-66	62.5	63
658	High-Resolution Infrared Emission Spectra of HCl and HF. <i>Journal of Molecular Spectroscopy</i> , 1994 , 164, 574-579	1.3	62
657	Fourier transform spectroscopy of the B band of the N3 radical. <i>Journal of Chemical Physics</i> , 1988 , 89, 1762-1767	3.9	62
656	Laser excited fluorescence of CS2. Journal of Molecular Spectroscopy, 1981, 86, 275-285	1.3	62
655	Observation of the infrared absorption spectra of 20NeH+ and 22NeH+ with a difference frequency laser. <i>Journal of Chemical Physics</i> , 1982 , 77, 693-696	3.9	62
654	Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3529-3562	6.8	61
653	The vibration botation emission spectrum of CH(X 2[]). Journal of Chemical Physics, 1987, 86, 4838-4842	3.9	61
652	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6153-6166	6.8	60
651	Validation of ACE-FTS N₂O measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4759-4786	6.8	60
650	The infrared spectrum of XeH+. <i>Journal of Chemical Physics</i> , 1987 , 87, 159-162	3.9	60
649	The hyperfine structure of the calcium monohalides. <i>Journal of Chemical Physics</i> , 1981 , 74, 5508-5515	3.9	60
648	Satellite boreal measurements over Alaska and Canada during JuneIJuly 2004: Simultaneous measurements of upper tropospheric CO, C2H6, HCN, CH3Cl, CH4, C2H2, CH3OH, HCOOH, OCS, and SF6 mixing ratios. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	59
647	Fourier-transform spectroscopy of NH: the c^1個^10 ransition. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1986 , 3, 1170	1.7	59
646	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 35-62	6.8	58

645	An empirical line-by-line model for the infrared solar transmittance spectrum from 700 to 5000cm-1. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 102, 450-463	2.1	58
644	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
643	FTIR Emission Spectra, Molecular Constants, and Potential Curve of Ground State GeO. <i>Journal of Molecular Spectroscopy</i> , 1999 , 194, 197-202	1.3	57
642	Rotational analysis of the B 2HX 2H transition of BaOH and BaOD. <i>Journal of Chemical Physics</i> , 1986 , 84, 698-708	3.9	57
641	[ITAL]K[/ITAL]-Band Spectrum of Water in Sunspots. <i>Astrophysical Journal</i> , 1997 , 489, L205-L208	4.7	55
640	The A documentclass{aastex} usepackage{amsbsy} usepackage{amsfonts} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra}	8	55
639	The relation between atmospheric humidity and temperature trends for stratospheric water. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1052-1074	4.4	54
638	IASI carbon monoxide validation over the Arctic during POLARCAT spring and summer campaigns. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10655-10678	6.8	54
637	Global distributions of carbonyl sulfide in the upper troposphere and stratosphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	54
636	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5801-5841	6.8	54
635	Technical Note: New ground-based FTIR measurements at Ile de La R\(\Pi\) linion: observations, error analysis, and comparisons with independent data. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3483-350	98 ^{6.8}	53
634	CO emission and export from Asia: an analysis combining complementary satellite measurements (MOPITT, SCIAMACHY and ACE-FTS) with global modeling. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5187-5204	6.8	53
633	Comparison of atmospheric retrievals from ACE and HALOE. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	53
632	Spectroscopy of CaOH. Astrophysical Journal, 1985, 288, 373	4.7	53
631	Observations of increasing carbon dioxide concentration in Earth thermosphere. <i>Nature Geoscience</i> , 2012 , 5, 868-871	18.3	52
630	Initial validation comparisons for the Atmospheric Chemistry Experiment (ACE-FTS). <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	52
629	The vibration-rotation emission spectrum of free BeH2. <i>Science</i> , 2002 , 297, 1323-4	33.3	52
628	ExoMol line list IXXI. Nitric Oxide (NO). <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 882-897	4.3	51

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627	DiRef, A Database of References Associated with the Spectra of Diatomic Molecules. <i>Journal of Molecular Spectroscopy</i> , 2001 , 207, 287	1.3	51	
626	Characterization of the Ground State of Br(2) by Laser-Induced Fluorescence Fourier Transform Spectroscopy of the B(3)Pi(0(+))(u)-X(1)Sigma(+)(g) System. <i>Journal of Molecular Spectroscopy</i> , 2000 , 200, 104-119	1.3	51	
625	HOT METHANE LINE LISTS FOR EXOPLANET AND BROWN DWARF ATMOSPHERES. <i>Astrophysical Journal</i> , 2012 , 757, 46	4.7	50	
624	Fourier transform emission spectroscopy of the B2HX2H system of CN. <i>Journal of Molecular Spectroscopy</i> , 2006 , 237, 225-231	1.3	50	
623	Hot methane spectra for astrophysical applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003 , 82, 279-292	2.1	50	
622	Infrared emission spectra of BeH2 and BeD2. <i>Journal of Chemical Physics</i> , 2003 , 118, 3622-3627	3.9	50	
621	The Emission Spectrum of Hot Water in the Region between 370 and 930 cma. <i>Journal of Molecular Spectroscopy</i> , 1996 , 176, 305-315	1.3	50	
620	Carbon dioxide atmospheric vertical profiles retrieved from space observation using ACE-FTS solar occultation instrument. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2455-2470	6.8	49	
619	Variability in HDO/H2O abundance ratios in the tropical tropopause layer. <i>Journal of Geophysical Research</i> , 2007 , 112,		49	
618	Atmospheric chemistry experiment (ACE): Analytical chemistry from orbit. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 647-654	14.6	49	
617	Gas-phase infrared emission spectra of C60 and C70. Temperature-dependent studies. <i>Chemical Physics Letters</i> , 1994 , 218, 295-303	2.5	49	
616	Spectroscopic Constants, Abundances, and Opacities of the TiH Molecule. <i>Astrophysical Journal</i> , 2005 , 624, 988-1002	4.7	48	
615	Observation of gas phase organometallic free radicals: Monomethyl derivatives of calcium and strontium. <i>Journal of Chemical Physics</i> , 1987 , 86, 5918-5922	3.9	48	
614	Far- and Mid-Infrared Emission Spectroscopy of LiH and LiD. <i>Journal of Molecular Spectroscopy</i> , 1998 , 188, 14-26	1.3	47	
613	Validation of ACE-FTS satellite data in the upper troposphere/lower stratosphere (UTLS) using non-coincident measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1483-1499	6.8	47	
612	Validation of MIPAS ClONO₂ measurements. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 257-281	6.8	47	
611	Laser spectroscopy of alkaline earth monoalkoxide free radicals. <i>Journal of the American Chemical Society</i> , 1986 , 108, 2126-32	16.4	47	

609	Molecular astronomy of cool stars and sub-stellar objects. <i>International Reviews in Physical Chemistry</i> , 2009 , 28, 681-709	7	46
608	Atmospheric Chemistry Experiment (ACE) Arctic stratospheric measurements of NOx during February and March 2004: Impact of intense solar flares. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	46
607	The A 3区 3日transition of the SiC radical. <i>Journal of Chemical Physics</i> , 1989 , 91, 7384-7386	3.9	46
606	The spectrum of magnesium hydride. <i>Astrophysical Journal</i> , 1985 , 298, 375	4.7	46
605	Simulation of energetic particle precipitation effects during the 20032004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5035-5048	2.6	45
604	Quantifying the impact of BOReal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6239-6261	6.8	45
603	Atmospheric Chemistry Experiment (ACE) measurements of elevated Southern Hemisphere upper tropospheric CO, C2H6, HCN, and C2H2 mixing ratios from biomass burning emissions and long-range transport. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	45
602	A global inventory of stratospheric chlorine in 2004. <i>Journal of Geophysical Research</i> , 2006 , 111,		45
601	Validation of water vapour profiles from the Atmospheric Chemistry Experiment (ACE)		45
600	Estimation of stratospheric age spectrum from chemical tracers. <i>Journal of Geophysical Research</i> , 2005 , 110,		44
599	What drives the observed variability of HCN in the troposphere and lower stratosphere?. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8531-8543	6.8	43
598	First space-borne measurements of methanol inside aged southern tropical to mid-latitude biomass burning plumes using the ACE-FTS instrument. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3463-3470	6.8	43
597	Laser-Induced Fluorescence and Fourier Transform Spectroscopy of the [21.9]2B/2M2B/2 (21 910 cmfl) and the [21.9]2B/2fl16]2B/2 (21 750 cmfl) Transitions of NiCl. <i>Journal of Molecular Spectroscopy</i> , 2000 , 202, 53-58	1.3	43
596	Fourier transform emission spectroscopy of NeH+. <i>Journal of Molecular Spectroscopy</i> , 1985 , 113, 451-45	571.3	43
595	Laser spectroscopy of CaBr: A2⊞X2⊞ and B2⊞-X2⊞ systems. <i>Journal of Molecular Spectroscopy</i> , 1981 , 88, 175-193	1.3	43
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