Chris Boone

List of Publications by Year in descending order

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87 papers	5,296 citations	31 h-index	102304 66 g-index
88	88	88	3119
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Atmospheric Chemistry Experiment (ACE): Mission overview. Geophysical Research Letters, 2005, 32, .	1.5	768
2	Asian Monsoon Transport of Pollution to the Stratosphere. Science, 2010, 328, 611-613.	6.0	406
3	Retrievals for the atmospheric chemistry experiment Fourier-transform spectrometer. Applied Optics, 2005, 44, 7218.	2.1	377
4	Validation of the Aura Microwave Limb Sounder temperature and geopotential height measurements. Journal of Geophysical Research, 2008, 113, .	3.3	370
5	Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements. Journal of Geophysical Research, 2007, 112, .	3.3	255
6	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq0 C	OrgBT/C	Overlock 10 Tf
7	Enhanced NOxin 2006 linked to strong upper stratospheric Arctic vortex. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	152
8	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. Journal of Geophysical Research, 2007, 112, .	3.3	149
9	NO _x descent in the Arctic middle atmosphere in early 2009. Geophysical Research Letters, 2009, 36, .	1.5	143
10	ACE-FTS observation of a young biomass burning plume: first reported measurements of C ₂ H ₄ , C _{0, H₂CO and PAN by infrared occultation from space. Atmospheric Chemistry and Physics, 2007, 7, 5437-5446.}	1.9	119
11	High Resolution Dynamics Limb Sounder: Experiment overview, recovery, and validation of initial temperature data. Journal of Geophysical Research, 2008, 113, .	3.3	114
12	A global view of the extratropical tropopause transition layer from Atmospheric Chemistry Experiment Fourier Transform Spectrometer O $<$ sub $>$ 3 $<$ /sub $>$, H $<$ sub $>$ 2 $<$ /sub $>$ O, and CO. Journal of Geophysical Research, 2009, 114, .	3.3	111
13	Validation of the Aura Microwave Limb Sounder HNO ₃ measurements. Journal of Geophysical Research, 2007, 112, .	3.3	95
14	A study of stratospheric chlorine partitioning based on new satellite measurements and modeling. Journal of Geophysical Research, 2008, 113 , .	3.3	88
15	Global variations of HDO and HDO/H ₂ O ratios in the upper troposphere and lower stratosphere derived from ACEâ€FTS satellite measurements. Journal of Geophysical Research, 2012, 117, .	3.3	72
16	Satellite boreal measurements over Alaska and Canada during June–July 2004: Simultaneous measurements of upper tropospheric CO, C ₂ H ₆ , HCN, CH ₃ CH ₄ , C ₂ H ₂ , CH ₃ OH, HCOOH, OCS, and SF ₆ mixing ratios. Global Biogeochemical Cycles, 2007, 21, .	1.9	69
17	Observations of increasing carbon dioxide concentration in Earth's thermosphere. Nature Geoscience, 2012, 5, 868-871.	5.4	68
18	Global distributions of carbonyl sulfide in the upper troposphere and stratosphere. Geophysical Research Letters, 2008, 35, .	1.5	59

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19	Variability in HDO/H ₂ O abundance ratios in the tropical tropopause layer. Journal of Geophysical Research, 2007, 112, .	3.3	55
20	A global inventory of stratospheric chlorine in 2004. Journal of Geophysical Research, 2006, 111, .	3. 3	53
21	Atmospheric Chemistry Experiment (ACE) measurements of elevated Southern Hemisphere upper tropospheric CO, C2H6, HCN, and C2H2mixing ratios from biomass burning emissions and long-range transport. Geophysical Research Letters, 2005, 32, .	1.5	52
22	Atmospheric Chemistry Experiment (ACE) Arctic stratospheric measurements of NOxduring February and March 2004: Impact of intense solar flares. Geophysical Research Letters, 2005, 32, .	1.5	50
23	Estimation of stratospheric age spectrum from chemical tracers. Journal of Geophysical Research, 2005, 110, .	3.3	50
24	Validation of Aura Microwave Limb Sounder HCl measurements. Journal of Geophysical Research, 2008, 113, .	3.3	50
25	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
26	Measurements of O3, NO2and Temperature during the 2004 Canadian Arctic ACE Validation Campaign. Geophysical Research Letters, 2005, 32, .	1.5	43
27	Severe Arctic ozone loss in the winter 2004/2005: observations from ACE-FTS. Geophysical Research Letters, 2006, 33, .	1.5	43
28	First space-based observations of formic acid (HCOOH): Atmospheric Chemistry Experiment austral spring 2004 and 2005 Southern Hemisphere tropical-mid-latitude upper tropospheric measurements. Geophysical Research Letters, 2006, 33, .	1.5	42
29	Co-located ACE-FTS and Odin/SMR stratospheric-mesospheric CO 2004 measurements and comparison with a GCM. Geophysical Research Letters, 2005, 32, .	1.5	39
30	Observation of sulfate aerosols and SO $<$ sub $>$ 2 $<$ /sub $>$ from the Sarychev volcanic eruption using data from the Atmospheric Chemistry Experiment (ACE). Journal of Geophysical Research, 2012, 117, .	3.3	39
31	ACE-FTS version 3.0 data set: validation and data processing update. Annals of Geophysics, 2014, 56, .	0.5	39
32	The photochemistry of carbon monoxide in the stratosphere and mesosphere evaluated from observations by the Microwave Limb Sounder on the Aura satellite. Journal of Geophysical Research, 2010, 115, .	3.3	38
33	Quantifying Arctic ozone loss during the 2004–2005 winter using satellite observations and a chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	37
34	Wildfire smoke destroys stratospheric ozone. Science, 2022, 375, 1292-1295.	6.0	37
35	Trends of HF, HCl, CCl2F2, CCl3F, CHClF2(HCFC-22), and SF6in the lower stratosphere from Atmospheric Chemistry Experiment (ACE) and Atmospheric Trace Molecule Spectroscopy (ATMOS) measurements near 30°N latitude. Geophysical Research Letters, 2005, 32, .	1.5	36
36	Stratospheric abundances of water and methane based on ACE-FTS measurements. Geophysical Research Letters, 2005, 32, .	1.5	34

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37	ACE-FTS measurements across the edge of the winter 2004 Arctic vortex. Geophysical Research Letters, 2005, 32, .	1.5	34
38	Hydrogen fluoride total and partial column time series above the Jungfraujoch from longâ€ŧerm FTIR measurements: Impact of the lineâ€shape model, characterization of the error budget and seasonal cycle, and comparison with satellite and model data. Journal of Geophysical Research, 2010, 115, .	3.3	34
39	Report on Recent Validation Results from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS)., 2013,,.		34
40	A global inventory of stratospheric fluorine in 2004 based on Atmospheric Chemistry Experiment Fourier transform spectrometer (ACE-FTS) measurements. Journal of Geophysical Research, 2006, 111, .	3.3	32
41	Hydrocarbons in the upper troposphere and lower stratosphere observed from ACEâ€FTS and comparisons with WACCM. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1964-1980.	1.2	32
42	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. Journal of Geophysical Research, 2008, 113 , .	3.3	31
43	Water vapor measurements in the mesosphere from Mauna Loa over solar cycle 23. Journal of Geophysical Research, 2009, 114, .	3.3	29
44	Comparisons between ACE-FTS and ground-based measurements of stratospheric HCl and ClONO2loadings at northern latitudes. Geophysical Research Letters, 2005, 32, .	1.5	28
45	Validation of the Atmospheric Chemistry Experiment by noncoincident MkIV balloon profiles. Journal of Geophysical Research, 2011, 116, .	3.3	27
46	Global phosgene observations from the Atmospheric Chemistry Experiment (ACE) mission. Geophysical Research Letters, 2007, 34, .	1.5	26
47	Atmospheric Chemistry Experiment (ACE) observations of aerosol in the upper troposphere and lower stratosphere from the Kasatochi volcanic eruption. Journal of Geophysical Research, 2010, 115, .	3.3	26
48	Initial comparison of ozone and NO ₂ profiles from ACEâ€MAESTRO with balloon and satellite data. Journal of Geophysical Research, 2007, 112, .	3.3	25
49	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
50	Total hydrogen budget of the equatorial upper stratosphere. Journal of Geophysical Research, 2010, 115, .	3.3	23
51	Odin observations of Antarctic nighttime NO densities in the mesosphere–lower thermosphere and observations of a lower NO layer. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7414-7425.	1.2	23
52	N ₂ O production by high energy auroral electron precipitation. Journal of Geophysical Research, 2008, 113 , .	3.3	22
53	First remote sensing observations of trifluoromethane (HFC \hat{a} \in 23) in the upper troposphere and lower stratosphere. Journal of Geophysical Research, 2012, 117, .	3.3	22
54	The onboard imagers for the Canadian ACE SCISAT-1 mission. Journal of Geophysical Research, 2007, 112,	3.3	21

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55	Pyrocumulonimbus Stratospheric Plume Injections Measured by the ACEâ€FTS. Geophysical Research Letters, 2020, 47, e2020GL088442.	1.5	21
56	First measurements of CFC- 113 and HCFC- $142b$ from space using ACE-FTS infrared spectra. Geophysical Research Letters, 2005, 32, .	1.5	20
57	Stratospheric correlation between nitric acid and ozone. Journal of Geophysical Research, 2009, 114, .	3.3	20
58	Evaluation of ACE-FTS and OSIRIS Satellite retrievals of ozone and nitric acid in the tropical upper troposphere: Application to ozone production efficiency. Journal of Geophysical Research, 2011, 116, .	3. 3	20
59	Nighttime nitric oxide densities in the Southern Hemisphere mesosphere–lower thermosphere. Geophysical Research Letters, 2011, 38, .	1.5	20
60	Initial intercomparison of ozone and nitrogen dioxide number density profiles retrieved by the ACE-FTS and GOMOS occultation experiments. Geophysical Research Letters, 2005, 32, .	1.5	18
61	NO ₂ air afterglow and O and NO densities from Odinâ€OSIRIS night and ACEâ€FTS sunset observations in the Antarctic MLT region. Journal of Geophysical Research, 2010, 115, .	3.3	18
62	A global inventory of stratospheric NO _{<i>y</i>} from ACE-FTS. Journal of Geophysical Research, 2011, 116, .	3. 3	17
63	Validation of ACE-FTS stratospheric ozone profiles against Odin/OSIRIS measurements. Geophysical Research Letters, 2005, 32, .	1.5	15
64	Trends in atmospheric HFC-23 (CHF3) and HFC-134a abundances. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106540.	1.1	15
65	Denitrification in the Arctic winter 2004/2005: Observations from ACE-FTS. Geophysical Research Letters, 2006, 33, .	1.5	14
66	Global observations of HNO \langle sub \rangle 3 \langle /sub \rangle from the High Resolution Dynamics Limb Sounder (HIRDLS): First results. Journal of Geophysical Research, 2008, 113, .	3.3	14
67	Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. Atmospheric Chemistry and Physics, 2016, 16, 10501-10519.	1.9	14
68	Validation of the MIPAS CO ₂ volume mixing ratio in the mesosphere and lower thermosphere and comparison with WACCM simulations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8345-8366.	1.2	14
69	Validating the reported random errors of ACEâ€FTS measurements. Journal of Geophysical Research, 2010, 115, .	3.3	13
70	Variations in middle atmospheric water vapor from 2004 to 2013. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,285.	1.2	13
71	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
72	Cloud detection in the upper troposphere-lower stratosphere region via ACE imagers: A qualitative study. Journal of Geophysical Research, 2007, 112, .	3.3	10

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73	A Nearâ€Global Atmospheric Distribution of N ₂ O Isotopologues. Geophysical Research Letters, 2017, 44, 10,735.	1.5	10
74	MLS measurements of stratospheric hydrogen cyanide during the 2015–2016 El Niño event. Atmospheric Chemistry and Physics, 2018, 18, 691-703.	1.9	10
75	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
76	Carbon dioxide retrievals from Atmospheric Chemistry Experiment solar occultation measurements. Journal of Geophysical Research, 2010, 115 , .	3.3	8
77	Validation of longâ€ŧerm measurements of water vapor from the midstratosphere to the mesosphere at two Network for the Detection of Atmospheric Composition Change sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 934-942.	1.2	7
78	A global enhancement of hydrogen cyanide in the lower stratosphere throughout 2016. Geophysical Research Letters, 2017, 44, 5791-5797.	1.5	7
79	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
80	Fifteen Years of HFCâ€134a Satellite Observations: Comparisons With SLIMCAT Calculations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033208.	1.2	7
81	Properties of high-altitude tropical cirrus clouds determined from ACE FTS observations. Geophysical Research Letters, 2005, 32, .	1.5	6
82	Comparison of Odin-OSIRIS OH A2Σ+-X2Π0-0 mesospheric observations and ACE-FTS water vapor observations. Geophysical Research Letters, 2006, 33, .	1.5	5
83	An Explanation for the Nitrous Oxide Layer Observed in the Mesopause Region. Geophysical Research Letters, 2018, 45, 7818-7827.	1.5	5
84	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
85	Line-of-Sight Winds and Doppler Effect Smearing in ACE-FTS Solar Occultation Measurements. Atmosphere, 2021, 12, 680.	1.0	4
86	Fate of Pollution Emitted During the 2015 Indonesian Fire Season. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033474.	1.2	3
87	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	O