

Geoffrey C Toon

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,486
citations

516710

16
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	The Total Carbon Column Observing Network. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2087-2112.	3.4	884
2	The ACOS CO ₂ retrieval algorithm – Part 1: Description and validation against synthetic observations. Atmospheric Measurement Techniques, 2012, 5, 99-121.	3.1	530
3	The JPL MkIV interferometer. Optics and Photonics News, 1991, 2, 19.	0.5	214
4	Disentangling chlorophyll fluorescence from atmospheric scattering effects in O ₂ A-band spectra of reflected sun-light. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	189
5	Spaceborne measurements of atmospheric CO ₂ by high-resolution NIR spectrometry of reflected sunlight: An introductory study. Geophysical Research Letters, 2002, 29, 11-1-11-4.	4.0	111
6	Measurements of reactive nitrogen in the stratosphere. Journal of Geophysical Research, 1998, 103, 3571-3585.	3.3	96
7	Mapping carbon monoxide pollution from space down to city scales with daily global coverage. Atmospheric Measurement Techniques, 2018, 11, 5507-5518.	3.1	75
8	Balloon-borne observations of midlatitude fluorine abundance. Journal of Geophysical Research, 1996, 101, 9045-9054.	3.3	58
9	Quantifying the loss of processed natural gas within California's South Coast Air Basin using long-term measurements of ethane and methane. Atmospheric Chemistry and Physics, 2016, 16, 14091-14105.	4.9	48
10	First identification of the electric quadrupole transitions of oxygen in solar and laboratory spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1174-1183.	2.3	46
11	Ground-based observations of Arctic O ₃ loss during spring and summer 1997. Journal of Geophysical Research, 1999, 104, 26497-26510.	3.3	41
12	Near-infrared remote sensing of Los Angeles trace gas distributions from a mountaintop site. Atmospheric Measurement Techniques, 2014, 7, 713-729.	3.1	35
13	Revision of spectral parameters for the B- and Î ³ -bands of oxygen and their validation against atmospheric spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2310-2322.	2.3	29
14	HITRAN spectroscopy evaluation using solar occultation FTIR spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 324-336.	2.3	28
15	Constraining Aerosol Vertical Profile in the Boundary Layer Using Hyperspectral Measurements of Oxygen Absorption. Geophysical Research Letters, 2018, 45, 10,772.	4.0	20
16	Collision-induced absorption by N ₂ near 2.16 µm: Calculations, model, and consequences for atmospheric remote sensing. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2419-2428.	3.3	19
17	Retrieval of atmospheric CO ₂ vertical profiles from ground-based near-infrared spectra. Atmospheric Measurement Techniques, 2021, 14, 3087-3118.	3.1	14
18	Regional and Urban Column CO Trends and Anomalies as Observed by MOPITT Over 16 Years. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033967.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Atmospheric carbonyl sulfide (OCS) measured remotely by FTIR solar absorption spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 1923-1944.	4.9	8
20	An FPGA-based data acquisition and processing system for the MATMOS FTIR instrument. , 2009, , .		6
21	Measurements of atmospheric ethene by solar absorption FTIR spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 5075-5088.	4.9	6
22	Indirect Influence of Humidity on Atmospheric Spectra Near 4 $\frac{1}{4}$ m. Geophysical Research Letters, 2018, 45, 12,593-12,601.	4.0	6
23	GFIT3: a full physics retrieval algorithm for remote sensing of greenhouse gases in the presence of aerosols. Atmospheric Measurement Techniques, 2021, 14, 6483-6507.	3.1	5
24	New temperature and pressure retrieval algorithm for high-resolution infrared solar occultation spectroscopy: analysis and validation against ACE-FTS and COSMIC. Atmospheric Measurement Techniques, 2016, 9, 1063-1082.	3.1	3
25	Solar Occultation FTIR Spectrometry at Mars for Trace Gas Detection: A Sensitivity Study. Earth and Space Science, 2019, 6, 836-860.	2.6	3
26	Spectrometric measurements of atmospheric propane (C ₃ H ₈). Atmospheric Chemistry and Physics, 2021, 21, 10727-10743.	4.9	2