

David G Johnson

List of Publications by Year in descending order

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34
papers

518
citations

1039406

9
h-index

839053

18
g-index

34
all docs

34
docs citations

34
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	Suomi NPP CrIS measurements, sensor data record algorithm, calibration and validation activities, and record data quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,734.	1.2	181
2	First light from the Far-Infrared Spectroscopy of the Troposphere (FIRST) instrument. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	57
3	Isotopic composition of stratospheric water vapor: Implications for transport. <i>Journal of Geophysical Research</i> , 2001, 106, 12219-12226.	3.3	56
4	Isotopic composition of stratospheric ozone. <i>Journal of Geophysical Research</i> , 2000, 105, 9025-9031.	3.3	45
5	Isotopic composition of stratospheric water vapor: Measurements and photochemistry. <i>Journal of Geophysical Research</i> , 2001, 106, 12211-12217.	3.3	45
6	Observations of the O(3P) fine structure line at 63 μ m in the upper mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
7	Stratospheric age spectra derived from observations of water vapor and methane. <i>Journal of Geophysical Research</i> , 1999, 104, 21595-21602.	3.3	14
8	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
9	Subsidence of the Arctic stratosphere determined from thermal emission of hydrogen fluoride. <i>Journal of Geophysical Research</i> , 1995, 100, 11261.	3.3	13
10	Observations of downwelling far-infrared emission at Table Mountain California made by the FIRST instrument. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 90-105.	1.1	12
11	Phase determination from mostly one-sided interferograms. <i>Applied Optics</i> , 1996, 35, 2955.	2.1	9
12	Chemical change in the Arctic Vortex during AASE II. <i>Geophysical Research Letters</i> , 1994, 21, 2595-2598.	1.5	8
13	Far-infrared spectroscopy of the troposphere (FIRST): sensor development and performance drivers. , 2003, , .		6
14	Far-infrared spectroscopy of the troposphere: instrument description and calibration performance. <i>Applied Optics</i> , 2013, 52, 264.	0.9	6
15	Measurements of downwelling far-infrared radiance during the RHUBC-II campaign at Cerro Toco, Chile and comparisons with line-by-line radiative transfer calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 25-39.	1.1	6
16	<title>Stratospheric spectroscopy with the far-infrared spectrometer: overview and recent results</title>. , 1991, , .		4
17	Far-infrared spectroscopy of the troposphere: calibration with a cold background. <i>Applied Optics</i> , 2014, 53, 5425.	0.9	4
18	Far-IR measurements at Cerro Toco, Chile: FIRST, REFIR, and AERI. <i>Proceedings of SPIE</i> , 2010, , .	0.8	3

#	ARTICLE	IF	CITATIONS
19	Absolute linearity measurement of photodetectors using sinusoidal modulated radiation. Applied Optics, 2012, 51, 4420.	0.9	3
20	Reprocessing of Suomi NPP CrIS Sensor Data Records to Improve the Radiometric and Spectral Long-Term Accuracy and Stability. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
21	The Far-Infrared Spectrum: Exploring a New Frontier in the Remote Sensing of the Earth's Climate. , 2007, , .		3
22	Development of detectability limits for on-orbit inspection of space shuttle wing leading edge. , 2005, , .		2
23	Far-infrared Spectroscopy of the Troposphere (FIRST): sensor calibration performance. , 2005, , .		2
24	Recalibration and Assessment of the SNPP CrIS Instrument: A Successful History of Restoration After Midwave Infrared Band Anomaly. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	2.7	2
25	<title>Design of a far-infrared spectrometer for atmospheric thermal emission measurements</title>. , 2002, 4485, 220.		1
26	GIFTS SM EDU data processing and algorithms. , 2007, , .		1
27	Infrared on-orbit RCC inspection system (IORIS). , 2005, , .		1
28	Far infrared spectroscopy of the troposphere (FIRST): sensor concept. , 2003, 4897, 127.		0
29	GIFTS SM EDU Level 1B algorithms. Proceedings of SPIE, 2007, , .	0.8	0
30	Absolute radiance re-calibration of FIRST. , 2012, , .		0
31	Far Infrared Sounding of the Troposphere: Rational and the FIRST Instrument. , 2007, , .		0
32	Radiometric Performance of the Calibration Demonstration System Infrared Fourier Transform Spectrometer. , 2013, , .		0
33	Far-Infrared Spectroscopy of Water Vapor: Results from Deployment of FIRST to Cerro Toco and Requirements for Future Experiments in Extremely Dry Environments. , 2016, , .		0
34	Derivation of JPSS-2 CRIS Pre-Launch Spectral Calibration Parameters from the Thermal Vacuum Test Data. , 2020, , .		0