

David G Johnson

List of Publications by Year in descending order

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34
papers

518
citations

1039406

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docs citations

34
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Derivation of JPSS-2 CRIS Pre-Launch Spectral Calibration Parameters from the Thermal Vacuum Test Data. , 2020, , .		0
4	Measurements of downwelling far-infrared radiance during the RHUBC-II campaign at Cerro Toco, Chile and comparisons with line-by-line radiative transfer calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 25-39.	1.1	6
5	Observations of downwelling far-infrared emission at Table Mountain California made by the FIRST instrument. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 90-105.	1.1	12
6	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
7	Far-infrared spectroscopy of the troposphere: calibration with a cold background. Applied Optics, 2014, 53, 5425.	0.9	4
8	Far-infrared spectroscopy of the troposphere: instrument description and calibration performance. Applied Optics, 2013, 52, 264.	0.9	6
9	Suomi NPP CrIS measurements, sensor data record algorithm, calibration and validation activities, and record data quality. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,734.	1.2	181
10	Radiometric Performance of the Calibration Demonstration System Infrared Fourier Transform Spectrometer. , 2013, , .		0
11	Absolute linearity measurement of photodetectors using sinusoidal modulated radiation. Applied Optics, 2012, 51, 4420.	0.9	3
12	Absolute radiance re-calibration of FIRST. , 2012, , .		0
13	Far-IR measurements at Cerro Toco, Chile: FIRST, REFIR, and AERI. Proceedings of SPIE, 2010, , .	0.8	3
14	GIFTS SM EDU data processing and algorithms. , 2007, , .		1
15	GIFTS SM EDU Level 1B algorithms. Proceedings of SPIE, 2007, , .	0.8	0
16	The Far-Infrared Spectrum: Exploring a New Frontier in the Remote Sensing of the Earth's Climate. , 2007, , .		3
17	Far Infrared Sounding of the Troposphere: Rational and the FIRST Instrument. , 2007, , .		0
18	First light from the Far-Infrared Spectroscopy of the Troposphere (FIRST) instrument. Geophysical Research Letters, 2006, 33, .	1.5	57

#	ARTICLE	IF	CITATIONS
19	Development of detectability limits for on-orbit inspection of space shuttle wing leading edge. , 2005, ,		2
20	Far-infrared Spectroscopy of the Troposphere (FIRST): sensor calibration performance. , 2005, , .		2
21	Infrared on-orbit RCC inspection system (IORIS). , 2005, , .		1
22	Observations of the O(3P) fine structure line at 63 $\frac{1}{4}$ m in the upper mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .	3.3	17
23	Far-infrared spectroscopy of the troposphere (FIRST): sensor development and performance drivers. , 2003, , .		6
24	Far infrared spectroscopy of the troposphere (FIRST): sensor concept. , 2003, 4897, 127.		0
25	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
26	<title>Design of a far-infrared spectrometer for atmospheric thermal emission measurements</title>. , 2002, 4485, 220.		1
27	Isotopic composition of stratospheric water vapor: Measurements and photochemistry. Journal of Geophysical Research, 2001, 106, 12211-12217.	3.3	45
28	Isotopic composition of stratospheric water vapor: Implications for transport. Journal of Geophysical Research, 2001, 106, 12219-12226.	3.3	56
29	Isotopic composition of stratospheric ozone. Journal of Geophysical Research, 2000, 105, 9025-9031.	3.3	45
30	Stratospheric age spectra derived from observations of water vapor and methane. Journal of Geophysical Research, 1999, 104, 21595-21602.	3.3	14
31	Phase determination from mostly one-sided interferograms. Applied Optics, 1996, 35, 2955.	2.1	9
32	Subsidence of the Arctic stratosphere determined from thermal emission of hydrogen fluoride. Journal of Geophysical Research, 1995, 100, 11261.	3.3	13
33	Chemical change in the Arctic Vortex during AASE II. Geophysical Research Letters, 1994, 21, 2595-2598.	1.5	8
34	<title>Stratospheric spectroscopy with the far-infrared spectrometer: overview and recent results</title>. , 1991, , .		4