

Jonathan P Taylor

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,192
citations

279798

23
h-index

254184

43
g-index

51
all docs

51
docs citations

51
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	The Havemann-Taylor Fast Radiative Transfer Code (HT-FRTC): A multipurpose code based on principal components. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 220, 180-192.	2.3	8
2	Atmospheric composition and thermodynamic retrievals from the ARIES airborne FTS system – Part 1: Technical aspects and simulated capability. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1133-1150.	3.1	6
3	Atmospheric composition and thermodynamic retrievals from the ARIES airborne TIR-FTS system – Part 2: Validation and results from aircraft campaigns. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4401-4416.	3.1	18
4	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 347-370.	3.3	357
5	Atmospheric correction of short-wave hyperspectral imagery using a fast, full-scattering 1DVar retrieval scheme. , 2012, , .		4
6	The Joint Airborne IASI Validation Experiment: An evaluation of instrument and algorithms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1372-1390.	2.3	16
7	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology. <i>Atmospheric Research</i> , 2011, 102, 10-29.	4.1	139
8	IASI spectral radiance validation inter-comparisons: case study assessment from the JAIVEx field campaign. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 411-430.	4.9	54
9	Measurement and simulation of mid- and far-infrared spectra in the presence of cirrus. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 718-739.	2.7	23
10	The Havemann-Taylor Fast Radiative Transfer Code: Exact fast radiative transfer for scattering atmospheres using Principal Components (PCs). , 2009, , .		11
11	Radiative transfer validation study from the European Aqua Thermodynamic Experiment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 277-290.	2.7	6
12	Hyperspectral retrieval of land surface emissivities using ARIES. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 2110-2124.	2.7	12
13	Retrieval of atmospheric profiles and cloud properties from IASI spectra using super-channels. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9121-9142.	4.9	58
14	EAQUATE: An International Experiment For Hyperspectral Atmospheric Sounding Validation. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 203-218.	3.3	37
15	Cloud and thermodynamic parameters retrieved from satellite ultraspectral infrared measurements. , 2008, , .		0
16	NAST-I tropospheric CO retrieval validation during INTEX-NA and EAQUATE. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 233-241.	2.7	2
17	Clear-sky far-infrared measurements observed with TAFTS during the EAQUATE campaign, September 2004. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 273-283.	2.7	22
18	Retrieval validation during the European Aqua Thermodynamic Experiment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 203-215.	2.7	21

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19	European Aqua Thermodynamic Experiment (EAQUATE). Quarterly Journal of the Royal Meteorological Society, 2007, 133, 189-190.	2.7	0
20	Is the aerosol emission detectable in the thermal infrared?. Journal of Geophysical Research, 2006, 111, .	3.3	7
21	AIRS retrieval validation during the EAQUATE. , 2006, , .		1
22	Temperature and salinity dependence of sea surface emissivity in the thermal infrared. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2539-2557.	2.7	79
23	Comparison of In Situ Humidity Data from Aircraft, Dropsonde, and Radiosonde. Journal of Atmospheric and Oceanic Technology, 2004, 21, 921-932.	1.3	17
24	Initial Cloud Detection Using the EOF Components of High-Spectral-Resolution Infrared Sounder Data. Journal of Applied Meteorology and Climatology, 2004, 43, 196-210.	1.7	7
25	Water vapour line and continuum absorption in the thermal infraredâ€”reconciling models and observations. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2949-2969.	2.7	15
26	The ISSWG line-by-line inter-comparison experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 77, 433-453.	2.3	62
27	Radiative properties and direct effect of Saharan dust measured by the C-130 aircraft during Saharan Dust Experiment (SHADE): 2. Terrestrial spectrum. Journal of Geophysical Research, 2003, 108, .	3.3	136
28	Validation of total water vapor retrieval with an airborne millimeter wave radiometer over Arctic sea ice. Radio Science, 2003, 38, n/a-n/a.	1.6	7
29	Cloud detection scheme for numerical weather prediction assimilation of IASI data. , 2002, 4539, 18.		0
30	Impact of updates to the HITRAN spectroscopic database on the modeling of clear-sky infrared radiances. Geophysical Research Letters, 2002, 29, 18-1-18-4.	4.0	8
31	Optical properties and direct radiative effect of Saharan dust: A case study of two Saharan dust outbreaks using aircraft data. Journal of Geophysical Research, 2001, 106, 18417-18430.	3.3	110
32	Liquid water path variability in unbroken marine stratocumulus cloud. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 2635-2662.	2.7	37
33	The Role of Background Cloud Microphysics in the Radiative Formation of Ship Tracks. Journals of the Atmospheric Sciences, 2000, 57, 2607-2624.	1.7	62
34	A Case Study of Ships Forming and Not Forming Tracks in Moderately Polluted Clouds. Journals of the Atmospheric Sciences, 2000, 57, 2729-2747.	1.7	40
35	The Impact of Ship-Produced Aerosols on the Microstructure and Albedo of Warm Marine Stratocumulus Clouds: A Test of MAST Hypotheses 1i and 1ii. Journals of the Atmospheric Sciences, 2000, 57, 2554-2569.	1.7	77
36	Effects of Aerosols on the Radiative Properties of Clouds. Journals of the Atmospheric Sciences, 2000, 57, 2656-2670.	1.7	26

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37	Drizzle Suppression in Ship Tracks. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2707-2728.	1.7	97
38	A Case Study of Ship Track Formation in a Polluted Marine Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2748-2764.	1.7	37
39	The Appearance and Disappearance of Ship Tracks on Large Spatial Scales. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2765-2778.	1.7	38
40	Effects of Aerosols on Cloud Albedo: Evaluation of Twomey's Parameterization of Cloud Susceptibility Using Measurements of Ship Tracks. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2684-2695.	1.7	160
41	Comparison of observed and modeled direct aerosol forcing during TARFOX. <i>Journal of Geophysical Research</i> , 1999, 104, 2279-2287.	3.3	77
42	Aircraft observations and modeling of sky radiance distributions from aerosol during TARFOX. <i>Journal of Geophysical Research</i> , 1999, 104, 2309-2319.	3.3	20
43	<title>Cloud detection from infrared spectral signatures measured by ARIES</title>. , 1999, , .		0
44	On the question of enhanced absorption of solar radiation by clouds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 419-434.	2.7	25
45	Studies with a flexible new radiation code. II: Comparisons with aircraft short-wave observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 839-861.	2.7	144
46	The radiative properties of inhomogeneous boundary layer cloud: Observations and modelling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1341-1364.	2.7	24
47	The effects of a localised aerosol perturbation on the microphysics of a stratocumulus cloud layer. , 1996, , 864-867.		1
48	The retrieval of cloud radiative and microphysical properties using combined near-infrared and microwave radiometry. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1995, 121, 1083-1112.	2.7	7
49	Measurements of the radiative and microphysical properties of stratocumulus over the South Atlantic and around the British Isles. <i>Atmospheric Research</i> , 1994, 34, 27-41.	4.1	5
50	Measurements of Cloud Susceptibility. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 1298-1306.	1.7	53
51	Sensitivity of Remotely Sensed Effective Radius of Cloud Droplets to Changes in LOWTRAN Version. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 2564-2570.	1.7	19