

Stefan A Buehler

List of Publications by Year in descending order

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146
papers

4,365
citations

109321

35
h-index

149698

56
g-index

212
all docs

212
docs citations

212
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Information content on hydrometeors from millimeter and sub-millimeter wavelengths. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1271562.	1.7	14
2	Synergistic radar and sub-millimeter radiometer retrievals of ice hydrometeors in mid-latitude frontal cloud systems. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 677-699.	3.1	5
3	The In-Orbit Performance of SEVIRI From Observations of Mercury and Venus. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 3215-3223.	4.9	0
4	Optically thin clouds in the trades. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6879-6898.	4.9	5
5	The Moon at thermal infrared wavelengths: a benchmark for asteroid thermal models. <i>Astronomy and Astrophysics</i> , 2021, 650, A38.	5.1	5
6	Calibration and Characterization of Satellite-Borne Microwave Sounders With the Moon. <i>Earth and Space Science</i> , 2021, 8, e2021EA001725.	2.6	2
7	EUREC<sup>4</sup</sup>A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	9.9	88
8	Geometric estimation of volcanic eruption column height from GOES-R near-limb imagery â€œ Part 2: Case studies. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12207-12226.	4.9	16
9	Geometric estimation of volcanic eruption column height from GOES-R near-limb imagery â€œ Part 1: Methodology. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12189-12206.	4.9	11
10	Lagrangian Coherent Structures and Vortex Formation in High Spatiotemporal-Resolution Satellite Winds of an Atmospheric KÃ¼rmÃ¼n Vortex Street. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035000.	3.3	3
11	Tropical Free-Tropospheric Humidity Differences and Their Effect on the Clear-Sky Radiation Budget in Global Storm-Resolving Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, .	3.8	8
12	Temperature-Dependence of the Clear-Sky Feedback in Radiative-Convective Equilibrium. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	8
13	Are elevated moist layers a blind spot for hyperspectral infrared sounders? A model study. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7025-7044.	3.1	3
14	A new climate data record of upper-tropospheric humidity from microwave observations. <i>Scientific Data</i> , 2020, 7, 218.	5.3	4
15	Benchmark Calculations of Radiative Forcing by Greenhouse Gases. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033483.	3.3	21
16	Characterization of the High-Resolution Infrared Radiation Sounder Using Lunar Observations. <i>Remote Sensing</i> , 2020, 12, 1488.	4.0	3
17	Opportunistic Constant Target Matchingâ€”A New Method for Satellite Intercalibration. <i>Earth and Space Science</i> , 2020, 7, e2019EA000856.	2.6	1
18	Performance of Radiative Transfer Models in the Microwave Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031831.	3.3	12

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19	Microwave and submillimeter wave scattering of oriented ice particles. Atmospheric Measurement Techniques, 2020, 13, 2309-2333.	3.1	20
20	Trends in Upper-Tropospheric Humidity: Expansion of the Subtropical Dry Zones?. Journal of Climate, 2020, 33, 2149-2161.	3.2	6
21	Evolution of an Atmospheric Vortex Street From High-Resolution Satellite Winds: Guadalupe Island Case Study. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032121.	3.3	13
22	Towards an operational Ice Cloud Imager (ICI) retrieval product. Atmospheric Measurement Techniques, 2020, 13, 53-71.	3.1	35
23	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. Bulletin of the American Meteorological Society, 2020, 101, E2030-E2046.	3.3	40
24	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
25	Simulated Tropical Precipitation Assessed across Three Major Phases of the Coupled Model Intercomparison Project (CMIP). Monthly Weather Review, 2020, 148, 3653-3680.	1.4	92
26	The Added Value of Large-eddy and Storm-resolving Models for Simulating Clouds and Precipitation. Journal of the Meteorological Society of Japan, 2020, 98, 395-435.	1.8	93
27	Synergistic radar and radiometer retrievals of ice hydrometeors. Atmospheric Measurement Techniques, 2020, 13, 4219-4245.	3.1	8
28	A 1D RCE Study of Factors Affecting the Tropical Tropopause Layer and Surface Climate. Journal of Climate, 2019, 32, 6769-6782.	3.2	19
29	Disk-Integrated Lunar Brightness Temperatures between 89 and 190 GHz. Advances in Astronomy, 2019, 2019, 1-8.	1.1	8
30	Re-Examining the First Climate Models: Climate Sensitivity of a Modern Radiative-Convective Equilibrium Model. Journal of Climate, 2019, 32, 8111-8125.	3.2	27
31	The sensitivity of oceanic precipitation to sea surface temperature. Atmospheric Chemistry and Physics, 2019, 19, 9241-9252.	4.9	6
32	Onboard Radio Frequency Interference as the Origin of Inter-Satellite Biases for Microwave Humidity Sounders. Remote Sensing, 2019, 11, 866.	4.0	3
33	An Uncertainty Quantified Fundamental Climate Data Record for Microwave Humidity Sounders. Remote Sensing, 2019, 11, 548.	4.0	14
34	Towards more realistic hypotheses for the information content analysis of cloudy/precipitating situations – Application to a hyperspectral instrument in the microwave. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1-14.	2.7	23
35	The Dependence of Shallow Cumulus Macrophysical Properties on Large-scale Meteorology as Observed in ASTER Imagery. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11477-11505.	3.3	25
36	Is There Really a Closure Gap Between 183.31-GHz Satellite Passive Microwave and <i>In Situ</i> Radiosonde Water Vapor Measurements?. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2904-2910.	6.3	11

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37	Ensemble Optimization Retrieval Algorithm of Hydrometeor Profiles for the Ice Cloud Imager Submillimeter-Wave Radiometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4594-4612.	3.3	7
38	Intercomparison of three microwave/infrared high resolution line-by-line radiative transfer codes. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 211, 64-77.	2.3	22
39	How Robust Is the Weakening of the Pacific Walker Circulation in CMIP5 Idealized Transient Climate Simulations?. <i>Journal of Climate</i> , 2018, 31, 81-97.	3.2	28
40	Inter-channel uniformity of a microwave sounder in space. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4005-4014.	3.1	4
41	All-sky information content analysis for novel passive microwave instruments in the range from 23.8 to 874.4 GHz. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4217-4237.	3.1	6
42	Towards an along-track validation of HOAPS precipitation using OceanRAIN optical disdrometer data over the Atlantic Ocean. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 235-254.	2.7	9
43	The Fast Response of the Tropical Circulation to CO ₂ Forcing. <i>Journal of Climate</i> , 2018, 31, 9903-9920.	3.2	10
44	Robust and Nonrobust Impacts of Atmospheric Cloud-Radiative Interactions on the Tropical Circulation and Its Response to Surface Warming. <i>Geophysical Research Letters</i> , 2018, 45, 8577-8585.	4.0	20
45	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, Si-S310.	3.3	160
46	Retrieval of an ice water path over the ocean from ISMAR and MARSS millimeter and submillimeter brightness temperatures. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 611-632.	3.1	31
47	ARTS, the Atmospheric Radiative Transfer Simulator – version 2.2, the planetary toolbox edition. <i>Geoscientific Model Development</i> , 2018, 11, 1537-1556.	3.6	102
48	OceanRAIN, a new in-situ shipboard global ocean surface-reference dataset of all water cycle components. <i>Scientific Data</i> , 2018, 5, 180122.	5.3	39
49	A general database of hydrometeor single scattering properties at microwave and sub-millimetre wavelengths. <i>Earth System Science Data</i> , 2018, 10, 1301-1326.	9.9	74
50	THz spectroscopy of the atmosphere for climatology and meteorology applications. , 2017, , .		5
51	Evaluation of the EUMETSAT Global AVHRR Wind Product. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 2353-2376.	1.5	6
52	The Representation of Tropospheric Water Vapor Over Low-Latitude Oceans in (Re-)analysis: Errors, Impacts, and the Ability to Exploit Current and Prospective Observations. <i>Surveys in Geophysics</i> , 2017, 38, 1399-1423.	4.6	17
53	Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles. <i>Surveys in Geophysics</i> , 2017, 38, 1445-1482.	4.6	22
54	Martian magnetism with orbiting sub-millimeter sensor: simulated retrieval system. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 27-37.	1.6	4

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55	Simulation of Ship-Track versus Satellite-Sensor Differences in Oceanic Precipitation Using an Island-Based Radar. <i>Remote Sensing</i> , 2017, 9, 593.	4.0	9
56	Noise performance of microwave humidity sounders over their lifetime. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4927-4945.	3.1	18
57	Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles. <i>Space Sciences Series of ISSI</i> , 2017, , 273-310.	0.0	4
58	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280.	3.3	132
59	The Representation of Tropospheric Water Vapor Over Low-Latitude Oceans in (Re-)analysis: Errors, Impacts, and the Ability to Exploit Current and Prospective Observations. <i>Space Sciences Series of ISSI</i> , 2017, , 227-251.	0.0	0
60	Modeling the Zeeman effect in high-altitude SSMIS channels for numerical weather prediction profiles: comparing a fast model and a line-by-line model. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 841-857.	3.1	3
61	A review of sources of systematic errors and uncertainties in observations and simulations at 183 GHz. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2207-2221.	3.1	41
62	Evaluating the Diurnal Cycle of Upper Tropospheric Humidity in Two Different Climate Models Using Satellite Observations. <i>Remote Sensing</i> , 2016, 8, 325.	4.0	14
63	Seasonal variation of coherence in SAR interferograms in Kiruna, Northern Sweden. <i>International Journal of Remote Sensing</i> , 2016, 37, 370-387.	2.9	8
64	The Moon as a photometric calibration standard for microwave sensors. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3467-3475.	3.1	16
65	Intercalibration of microwave temperature sounders using radio occultation measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3758-3773.	3.3	2
66	Radiative flux and forcing parameterization error in aerosol-free clear skies. <i>Geophysical Research Letters</i> , 2015, 42, 5485-5492.	4.0	57
67	On the microwave optical properties of randomly oriented ice hydrometeors. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1913-1933.	3.1	36
68	Zeeman effect in atmospheric O ₂ measured by ground-based microwave radiometry. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1863-1874.	3.1	18
69	SPARE-ICE: Synergistic ice water path from passive operational sensors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1504-1523.	3.3	32
70	Middle-atmospheric zonal and meridional wind profiles from polar, tropical and midlatitudes with the ground-based microwave Doppler wind radiometer WIRA. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4491-4505.	3.1	39
71	A treatment of the Zeeman effect using Stokes formalism and its implementation in the Atmospheric Radiative Transfer Simulator (ARTS). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 133, 445-453.	2.3	30
72	Interference from terrestrial sources and its impact on the GRAS GPS radio occultation receiver. <i>Radio Science</i> , 2014, 49, 1-6.	1.6	5

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73	Representative wavelengths absorption parameterization applied to satellite channels and spectral bands. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 148, 99-115.	2.3	82
74	Sub-millimeter observations of the terrestrial atmosphere during an Earth flyby of the MIRO sounder on the Rosetta spacecraft. <i>Planetary and Space Science</i> , 2013, 82-83, 99-112.	1.7	3
75	Evaluating Instrumental Inhomogeneities in Global Radiosonde Upper Tropospheric Humidity Data Using Microwave Satellite Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 3615-3624.	6.3	9
76	Correcting diurnal cycle aliasing in satellite microwave humidity sounder measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 101-113.	3.3	16
77	A method for remote sensing of weak planetary magnetic fields: Simulated application to Mars. <i>Geophysical Research Letters</i> , 2013, 40, 5014-5018.	4.0	8
78	Assessment of intercalibration methods for satellite microwave humidity sounders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4906-4918.	3.3	19
79	Monitoring scan asymmetry of microwave humidity sounding channels using simultaneous all angle collocations (SAACs). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1536-1545.	3.3	28
80	Systematic and random errors between collocated satellite ice water path observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2629-2642.	3.3	19
81	On the Importance of Vaisala RS92 Radiosonde Humidity Corrections for a Better Agreement between Measured and Modeled Satellite Radiances. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012, 29, 248-259.	1.3	26
82	Observing ice clouds in the submillimeter spectral range: the CloudIce mission proposal for ESA's Earth Explorer 8. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1529-1549.	3.1	51
83	A multi-instrument comparison of integrated water vapour measurements at a high latitude site. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10925-10943.	4.9	55
84	Understanding intersatellite biases of microwave humidity sounders using global simultaneous nadir overpasses. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
85	Optimised frequency grids for infrared radiative transfer simulations in cloudy conditions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2124-2134.	2.3	3
86	The natural greenhouse effect of atmospheric oxygen (O ₂) and nitrogen (N ₂). <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
87	Clear-sky biases in satellite infrared estimates of upper tropospheric humidity and its trends. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
88	Correction to "Comparing upper tropospheric humidity data from microwave satellite instruments and tropical radiosondes". <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	0
89	Assessing observed and modelled spatial distributions of ice water path using satellite data. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 375-391.	4.9	90
90	ARTS, the atmospheric radiative transfer simulator, version 2. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1551-1558.	2.3	222

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91	Absorption lookup tables in the radiative transfer model ARTS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1559-1567.	2.3	31
92	On cloud ice induced absorption and polarisation effects in microwave limb sounding. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1305-1318.	3.1	13
93	Efficient radiative transfer simulations for a broadband infrared radiometerâ€”Combining a weighted mean of representative frequencies approach with frequency selection by simulated annealing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 602-615.	2.3	26
94	Comparing upper tropospheric humidity from microwave satellite instruments and IGRA radiosonde data. , 2010, , .		4
95	Collocating satellite-based radar and radiometer measurements â€” methodology and usage examples. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 693-708.	3.1	30
96	Variability of Indian summer monsoon in a new upper tropospheric humidity data set. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	15
97	Comparing upper tropospheric humidity data from microwave satellite instruments and tropical radiosondes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
98	Validation of water vapour profiles (version 13) retrieved by the IMK/IAA scientific retrieval processor based on full resolution spectra measured by MIPAS on board Envisat. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 379-399.	3.1	28
99	Scattering database in the millimeter and submillimeter wave range of 100â€”1000 GHz for nonspherical ice particles. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
100	Comparison of AIRS and AMSUâ€” monthly mean estimates of upper tropospheric humidity. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	12
101	Non-Gaussian Bayesian retrieval of tropical upper tropospheric cloud ice and water vapour from Odin-SMR measurements. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 621-637.	3.1	33
102	A strong ice cloud event as seen by a microwave satellite sensor: Simulations and observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1705-1718.	2.3	21
103	An upper tropospheric humidity data set from operational satellite microwave data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
104	Interannual to Diurnal Variations in Tropical and Subtropical Deep Convective Clouds and Convective Overshooting from Seven Years of AMSU-B Measurements. <i>Journal of Climate</i> , 2008, 21, 4168-4189.	3.2	43
105	3-D polarised simulations of space-borne passive mm/sub-mm midlatitude cirrus observations: a case study. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4149-4158.	4.9	36
106	A cloud filtering method for microwave upper tropospheric humidity measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5531-5542.	4.9	44
107	Comment on â€œMonitoring the atmospheric boundary layer by GPS radio occultation signals recorded in the open-loop modeâ€”by S. Sokolovskiy et al.. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1
108	Performance simulations for a submillimetre-wave satellite instrument to measure cloud ice. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 129-149.	2.7	52

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109	A concept for a satellite mission to measure cloud ice water path, ice particle size, and cloud altitude. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 109-128.	2.7	100
110	Prediction of cloud ice signatures in submillimetre emission spectra by means of ground-based radar and in situ microphysical data. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 151-162.	2.7	21
111	The COST 723 Action. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 99-108.	2.7	2
112	Observing cosmic microwave background polarization through ice. Monthly Notices of the Royal Astronomical Society, 2007, 376, 645-650.	4.4	7
113	Efficient forward modelling by matrix representation of sensor responses. International Journal of Remote Sensing, 2006, 27, 1793-1808.	2.9	22
114	Radiative transfer calculations for a passive microwave satellite sensor: Comparing a fast model and a line-by-line model. Journal of Geophysical Research, 2006, 111, .	3.3	28
115	NO<sub>2</sub> Profile retrieval using airborne multi axis UV-visible skylight absorption measurements over central Europe. Atmospheric Chemistry and Physics, 2006, 6, 3049-3058.	4.9	35
116	Toward a long-term homogenized UTH data set derived from satellite microwave measurements. , 2006, , .		0
117	Recent developments in the line-by-line modeling of outgoing longwave radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 98, 446-457.	2.3	32
118	Understanding the polarization signal of spherical particles for microwave limb radiances. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 101, 179-190.	2.3	8
119	Understanding the variability of clear-sky outgoing long-wave radiation based on ship-based temperature and water vapour measurements. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2675-2691.	2.7	10
120	A Cautionary Note on the Use of Gaussian Statistics in Satellite-Based UTH Climatologies. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 130-134.	3.1	12
121	CHAMP Radio Occultation Detection of the Planetary Boundary Layer Top. , 2006, , 265-272.		1
122	Comparison of microwave satellite humidity data and radiosonde profiles: A survey of European stations. Atmospheric Chemistry and Physics, 2005, 5, 1843-1853.	4.9	35
123	Retrieval of upper tropospheric water vapor and upper tropospheric humidity from AMSU radiances. Atmospheric Chemistry and Physics, 2005, 5, 2019-2028.	4.9	4
124	A practical demonstration on AMSU retrieval precision for upper tropospheric humidity by a non-linear multi-channel regression method. Atmospheric Chemistry and Physics, 2005, 5, 451-459.	4.9	7
125	Partition function data and impact on retrieval quality for an mm/sub-mm limb sounder. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 217-238.	2.3	14
126	Qpack, a general tool for instrument simulation and retrieval work. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 47-64.	2.3	142

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127	ARTS, the atmospheric radiative transfer simulator. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 65-93.	2.3	218
128	A sensitivity study on spectroscopic parameter accuracies for a mm/sub-mm limb sounder instrument. Journal of Molecular Spectroscopy, 2005, 229, 266-275.	1.2	30
129	Molecular Line Parameters for the "MASTER" (Millimeter Wave Acquisitions for) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66 161-205.	3.2	35
130	Using CHAMP radio occultation data to determine the top altitude of the Planetary Boundary Layer. Geophysical Research Letters, 2005, 32, .	4.0	51
131	A simple method to relate microwave radiances to upper tropospheric humidity. Journal of Geophysical Research, 2005, 110, .	3.3	66
132	Expected performance of the Superconducting Submillimeter-Wave Limb Emission Sounder compared with aircraft data. Radio Science, 2005, 40, n/a-n/a.	1.6	7
133	Intercomparison of general purpose clear sky atmospheric radiative transfer models for the millimeter/submillimeter spectral range. Radio Science, 2005, 40, n/a-n/a.	1.6	71
134	Scan asymmetries in AMSU-B data. Geophysical Research Letters, 2005, 32, .	4.0	35
135	The impact of ozone lines on AMSU-B radiances. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	43
136	Comparison of microwave satellite humidity data and radiosonde profiles: A case study. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	42
137	A polarized discrete ordinate scattering model for simulations of limb and nadir long-wave measurements in 1-D/3-D spherical atmospheres. Journal of Geophysical Research, 2004, 109, .	3.3	68
138	The effect of cirrus clouds on microwave limb radiances. Atmospheric Research, 2004, 72, 383-401.	4.1	11
139	Retrieval of profile information from airborne multiaxis UV-visible skylight absorption measurements. Applied Optics, 2004, 43, 4415.	2.1	33
140	The impact of temperature errors on perceived humidity supersaturation. Geophysical Research Letters, 2003, 30, .	4.0	11
141	The potential of polarization measurements from space at mm and sub-mm wavelengths for determining cirrus cloud parameters. Atmospheric Chemistry and Physics, 2003, 3, 39-48.	4.9	31
142	A Hotelling transformation approach for rapid inversion of atmospheric spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 529-543.	2.3	16
143	Water vapor continuum: absorption measurements at and model calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 74, 545-562.	2.3	58
144	A simple new radiative transfer model for simulating the effect of cirrus clouds in the microwave spectral region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 75, 611-624.	2.3	8

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145	Temperature profile retrieval from surface to mesopause by combining GNSS Radio Occultation and Passive Microwave Limb Sounder Data. <i>Geophysical Research Letters</i> , 2001, 28, 775-778.	4.0	5
146	Instrumental and spectral parameters: their effect on and measurement by microwave limb sounding of the atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 64, 421-437.	2.3	39