

Philip W Rosenkranz

List of Publications by Year in descending order

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35
papers

2,755
citations

430874

18
h-index

477307

29
g-index

39
all docs

39
docs citations

39
times ranked

2287
citing authors

#	ARTICLE	IF	CITATIONS
1	AIRS/AMSU/HSB on the aqua mission: design, science objectives, data products, and processing systems. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 253-264.	6.3	1,271
2	Water vapor microwave continuum absorption: A comparison of measurements and models. Radio Science, 1998, 33, 919-928.	1.6	475
3	Atmospheric 60-GHz oxygen spectrum: New laboratory measurements and line parameters. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 48, 629-643.	2.3	229
4	Retrieval of temperature and moisture profiles from AMSU-A and AMSU-B measurements. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2429-2435.	6.3	115
5	Interference coefficients for overlapping oxygen lines in air. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 39, 287-297.	2.3	106
6	60-GHz oxygen band: precise broadening and central frequencies of fine-structure lines, absolute absorption profile at atmospheric pressure, and revision of mixing coefficients. Journal of Molecular Spectroscopy, 2005, 231, 1-14.	1.2	90
7	NPOESS Aircraft Sounder Testbed-Microwave (NAST-M): instrument description and initial flight results. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2444-2453.	6.3	44
8	Rapid radiative transfer model for AMSU/HSB channels. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 362-368.	6.3	43
9	Uncertainty of atmospheric microwave absorption model: impact on ground-based radiometer simulations and retrievals. Atmospheric Chemistry and Physics, 2018, 18, 15231-15259.	4.9	40
10	Experimental study of the line mixing coefficient for 118.75GHz oxygen line. Journal of Molecular Spectroscopy, 2004, 223, 31-38.	1.2	35
11	A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1387-1393.	6.3	32
12	Radiative transfer solution using initial values in a scattering and absorbing atmosphere with surface reflection. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1889-1892.	6.3	31
13	Polarization of the atmosphere as a foreground for cosmic microwave background polarization experiments. New Astronomy Reviews, 2003, 47, 1159-1165.	12.8	29
14	Rough-sea microwave emissivities measured with the SSM/I. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 1081-1085.	6.3	27
15	Statistical iterative scheme for estimating atmospheric relative humidity profiles. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 254-260.	6.3	25
16	60-GHz oxygen band: Precise experimental profiles and extended absorption modeling in a wide temperature range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1420-1428.	2.3	23
17	Microwave absorption of supercooled clouds and implications for the dielectric properties of water. Journal of Geophysical Research, 2010, 115, .	3.3	20
18	A rapid atmospheric transmittance algorithm for microwave sounding channels. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 1135-1140.	6.3	19

#	ARTICLE	IF	CITATIONS
19	Microwave radiative transfer model validation. Journal of Geophysical Research, 2006, 111, .	3.3	17
20	Dependence of Microwave Brightness Temperature on Bistatic Surface Scattering: Model Functions and Application to AMSU-A. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2130-2138.	6.3	17
21	RTTOV-gb v1.0 " updates on sensors, absorption models, uncertainty, and availability. Geoscientific Model Development, 2019, 12, 1833-1845.	3.6	11
22	Revision of the 60-GHz atmospheric oxygen absorption band models for practical use. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106798.	2.3	10
23	Water vapor line profile at 183-GHz: Temperature dependence of broadening, shifting, and speed-dependent shape parameters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107472.	2.3	9
24	Comment on "Uncertainties in the temperature dependence of the line-coupling parameters of the microwave oxygen band: impact study". IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2160-2161.	6.3	6
25	Cloud liquid-water profile retrieval algorithm and validation. Journal of Geophysical Research, 2006, 111, .	3.3	6
26	Speed Dependence of 22- and 118-GHz Line Shapes for Tropospheric Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9702-9708.	6.3	6
27	Improved rapid transmittance algorithm for microwave sounding channels. , 1998, , .		5
28	Speed-dependent broadening of the O_2 fine-structure lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 264, 107546.	2.3	5
29	Dependence of AMSU-A Brightness Temperatures on Scattering From Antarctic Firn and Correlation With Polarization of SSM/I Data. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 769-773.	3.1	4
30	183-GHz and 425-GHz passive microwave spectrometers on the NPOESS Aircraft Sounder Testbed-Microwave (NAST-M). , 0, , .		2
31	Covariances of Spectroscopic Parameter Uncertainties in Microwave Forward Models and Consequences for Remote Sensing. , 2018, , .		2
32	Rapid Calculation of Microwave Opacity and Transmittance for Water-Vapor Atmospheric-Sounding Channels. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-4.	6.3	1
33	Oxygen Line Emission As A Measure Of Temperature In The Upper Stratosphere And Mesosphere. , 0, , .		0
34	O_2 concentration characteristics at 60 GHz band and diagnosis of temperature, pressure and concentration. , 0, , .		0
35	Climate-Quality Calibration for Low Earth-Orbit Microwave Radiometry. Remote Sensing, 2020, 12, 241.	4.0	0