

Rolando Rizzi

List of Publications by Year in descending order

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58
papers

877
citations

516710

16
h-index

526287

27
g-index

62
all docs

62
docs citations

62
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	The Farâ€infrared Earth. <i>Reviews of Geophysics</i> , 2008, 46, .	23.0	93
2	The ISSWG line-by-line inter-comparison experiment. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 77, 433-453.	2.3	62
3	UV Raman lidar measurements of relative humidity for the characterization of cirrus cloud microphysical properties. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8799-8811.	4.9	50
4	Spectrally resolved observations of atmospheric emitted radiance in the H ₂ O rotation band. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	42
5	Retrieval of foreign-broadened water vapor continuum coefficients from emitted spectral radiance in the H ₂ O rotational band from 240 to 590 cm ⁻¹ . <i>Optics Express</i> , 2008, 16, 15816.	3.4	39
6	EAQUATE: An International Experiment For Hyperspectral Atmospheric Sounding Validation. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 203-218.	3.3	37
7	Breadboard of a Fourier-transform spectrometer for the Radiation Explorer in the Far Infrared atmospheric mission. <i>Applied Optics</i> , 2005, 44, 2870.	2.1	35
8	Effective Solar Indices for Ionospheric Modeling: A Review and a Proposal for a Real-Time Regional IRI. <i>Surveys in Geophysics</i> , 2018, 39, 125-167.	4.6	32
9	Total cloud cover from satellite observations and climate models. <i>Atmospheric Research</i> , 2012, 107, 161-170.	4.1	30
10	Scattering properties of modeled complex snowflakes and mixedâ€phase particles at microwave and millimeter frequencies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9931-9947.	3.3	28
11	Modeling the Lower Part of the Topside Ionospheric Vertical Electron Density Profile Over the European Region by Means of Swarm Satellites Data and IRI UP Method. <i>Space Weather</i> , 2018, 16, 304-320.	3.7	28
12	On the Development of a Method for Updating an Empirical Climatological Ionospheric Model by Means of Assimilated vTEC Measurements From a GNSS Receiver Network. <i>Space Weather</i> , 2019, 17, 1131-1164.	3.7	27
13	Aerosol size spectra from spectral extinction data: the use of a linear inversion method. <i>Applied Optics</i> , 1982, 21, 1578.	2.1	23
14	A study of infrared diabatic forcing of ice clouds in the tropical atmosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	19
15	Analysis of cirrus cloud spectral signatures in the far infrared. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 141, 49-64.	2.3	19
16	Parameterization of single scattering properties of midâ€latitude cirrus clouds for fast radiative transfer models using particle mixtures. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	18
17	Retrieved and measured aerosol mass size distributions: a comparison. <i>Applied Optics</i> , 1986, 25, 546.	2.1	17
18	Spectral infrared analysis of a cirrus cloud based on Airborne Research Interferometer Evaluation System (ARIES) measurements. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	16

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19	Multilayered cloud parameters retrievals from combined infrared and microwave satellite observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
20	Homomorphism between cloudy and clear spectral radiance in the 800â€“900-cm ⁻¹ atmospheric window region. <i>Applied Optics</i> , 2002, 41, 965.	2.1	15
21	Water vapor absorption in the visible and near infrared: results of field measurements. <i>Applied Optics</i> , 1984, 23, 1853.	2.1	14
22	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
23	<title>Feasibility of the spaceborne radiation explorer in the far infrared (REFIR)</title>. , 2002, 4485, 202.		14
24	Antarctic Ice Cloud Identification and Properties Using Downwelling Spectral Radiance From 100 to 1,400 cm ^{>âˆ’1</sup>. <i>Journal of Geophysical Research D: Atmospheres</i>, 2019, 124, 4761-4781.}	3.3	14
25	Experimental validation of a spectral direct solar radiation model. <i>Solar Energy</i> , 1983, 31, 359-363.	6.1	13
26	Comparison of measured and modeled stratus cloud infrared spectral signatures. <i>Journal of Geophysical Research</i> , 2001, 106, 34109-34119.	3.3	13
27	Simulation of uplooking and downlooking high-resolution radiance spectra with two different radiative transfer models. <i>Applied Optics</i> , 2002, 41, 940.	2.1	12
28	Radiative energy partition and cloud radiative forcing at a Po valley site. <i>Atmospheric Research</i> , 2004, 72, 329-351.	4.1	12
29	Radiances simulated in the presence of clouds by use of a fast radiative transfer model and a multiple-scattering scheme. <i>Applied Optics</i> , 2002, 41, 1604.	2.1	10
30	Cloud Clearing of Infrared Sounder Radiances. <i>Journal of Applied Meteorology and Climatology</i> , 1994, 33, 179-194.	1.7	9
31	Parameterisation of surface radiation flux at an Antarctic site. <i>Atmospheric Research</i> , 2000, 54, 245-261.	4.1	8
32	IMG evidence of chlorofluorocarbon absorption in the atmospheric window region 800â€“900 cm ^{>âˆ’1</sup>. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i>, 2002, 72, 623-635.}	2.3	8
33	Some considerations on the infrared cloud forcing. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	8
34	Evaluating the effect of the interâ€“relationships among the different spectral bands oniasi performance. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 2231-2244.	2.7	7
35	Estimate of Radiosonde Dry Bias From Farâ€“infrared Measurements on the Antarctic Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3205-3211.	3.3	7
36	A comparative study of ionospheric IRIUp and ISP assimilative models during some intense and severe geomagnetic storms. <i>Advances in Space Research</i> , 2018, 61, 2569-2584.	2.6	7

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37	The use of TOVS clear radiances for numerical weather prediction using an updated forward model. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 1293-1312.	2.7	6
38	<title>Sensitivity of broadband and spectral measurements of outgoing radiance to changes in water vapor content</title>. , 2002, , .		6
39	Nonlinear iterative retrieval of aerosol size distribution. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1985, 8, 501-514.	0.2	5
40	<title>Quantitative role of far-infrared emission on diabatic forcing of the middle and upper troposphere in clear and cloudy conditions</title>. , 2002, 4485, 159.		5
41	Combining visible and infrared radiometry and lidar data to test simulations in clear and ice cloud conditions. Atmospheric Chemistry and Physics, 2010, 10, 7369-7387.	4.9	5
42	One year of downwelling spectral radiance measurements from 100 to 1400 cm^{âˆ’1} at Dome Concordia: Results in clear conditions. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,937.	3.3	5
43	Solar direct irradiance at the ground: A parametric approach. Solar Energy, 1980, 25, 15-20.	6.1	4
44	Far infrared scattering effects in cloudy sky. Physics and Chemistry of the Earth, 1999, 24, 243-247.	0.3	3
45	Detecting Precipitating Clouds over Snow and Ice Using a Multiple Sensors Approach. Journal of Applied Meteorology and Climatology, 2009, 48, 1858-1867.	1.5	3
46	Can downwelling far-infrared radiances over Antarctica be estimated from mid-infrared information?. Atmospheric Chemistry and Physics, 2019, 19, 7927-7937.	4.9	3
47	Cirrus cloud optical properties in far infrared. Physics and Chemistry of the Earth, 1999, 24, 269-273.	0.3	2
48	A simple method to calculate average spectra of clear sky solar radiation and their dependence on the atmospheric parameters. Revue De Physique Appliqu�e, 1985, 20, 109-120.	0.4	2
49	High-resolution satellite soundings over the Alpex area. The 4â€“5 March case study. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1984, 7, 317-337.	0.2	1
50	Telephotometer measurements and retrieved mass increase coefficients of the aerosol size distribution. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1993, 16, 107-129.	0.2	1
51	A comparison of simulated outgoing long-wave flux and estimates from raw TOVS radiances. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1994, 17, 763-781.	0.2	1
52	Comparison of temperature fields obtained from conventional and satellite data using an high-resolution objective analysis. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1988, 11, 405-428.	0.2	0
53	Effect of water and ice clouds in the outgoing long-wave radiation. , 1998, , .		0
54	Impact of radiometric noise on the performance of the Radiation Explorer in the Far Infrared (REFIR). , 1998, 3495, 256.		0

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55	<title>Scientific background for CLOUDS: a cloud and radiation monitoring satellite</title> . , 2001, , .		0
56	<title>Fabry-Perot interferometer for atmospheric HCl and CH4 remote sensing</title> . , 2002, 4485, 107.		0
57	Radiation Explorer in the Far Infrared BreadBoard (REFIR/BB) for the atmospheric emission measurement in the 100- to 1100-cm-1 spectral range. , 2003, 4881, 448.		0
58	The Earth's outgoing longwave radiation spectrum as seen by REFIR. , 2005, 5978, 428.		0