Rolando Rizzi

List of Publications by Year
in descending order

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58	877	516710 16	526287 27
papers	citations	h-index	g-index

62	62	62	822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Can downwelling far-infrared radiances over Antarctica be estimated from mid-infrared information?. Atmospheric Chemistry and Physics, 2019, 19, 7927-7937.	4.9	3
2	On the Development of a Method for Updating an Empirical Climatological Ionospheric Model by Means of Assimilated vTEC Measurements From a GNSS Receiver Network. Space Weather, 2019, 17, 1131-1164.	3.7	27
3	Antarctic Ice Cloud Identification and Properties Using Downwelling Spectral Radiance From 100 to 1,400 cm^{â^'1}. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4761-4781.	3.3	14
4	Estimate of Radiosonde Dry Bias From Farâ€Infrared Measurements on the Antarctic Plateau. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3205-3211.	3.3	7
5	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. Space Weather, 2018, 16, 304-320.	3.7	28
6	Effective Solar Indices for Ionospheric Modeling: A Review and a Proposal for a Real-Time Regional IRI. Surveys in Geophysics, 2018, 39, 125-167.	4.6	32
7	A comparative study of ionospheric IRIEup and ISP assimilative models during some intense and severe geomagnetic storms. Advances in Space Research, 2018, 61, 2569-2584.	2.6	7
8	One year of downwelling spectral radiance measurements from 100 to 1400 cm^{â^'1} at Dome Concordia: Results in clear conditions. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,937.	3.3	5
9	Scattering properties of modeled complex snowflakes and mixedâ€phase particles at microwave and millimeter frequencies. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9931-9947.	3.3	28
10	Analysis of cirrus cloud spectral signatures in the far infrared. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 141, 49-64.	2.3	19
11	Total cloud cover from satellite observations and climate models. Atmospheric Research, 2012, 107, 161-170.	4.1	30
12	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
13	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
14	UV Raman lidar measurements of relative humidity for the characterization of cirrus cloud microphysical properties. Atmospheric Chemistry and Physics, 2009, 9, 8799-8811.	4.9	50
15	Spectrally resolved observations of atmospheric emitted radiance in the H2O rotation band. Geophysical Research Letters, 2008, 35, .	4.0	42
16	The Farâ€Infrared Earth. Reviews of Geophysics, 2008, 46, .	23.0	93
17	Retrieval of foreign-broadened water vapor continuum coefficients from emitted spectral radiance in the H_2O rotational band from 240 to 590 cm^-1. Optics Express, 2008, 16, 15816.	3.4	39
18	Parameterization of single scattering properties of midâ€latitude cirrus clouds for fast radiative transfer models using particle mixtures. Geophysical Research Letters, 2008, 35, .	4.0	18

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19	EAQUATE: An International Experiment For Hyperspectral Atmospheric Sounding Validation. Bulletin of the American Meteorological Society, 2008, 89, 203-218.	3.3	37
20	Multilayered cloud parameters retrievals from combined infrared and microwave satellite observations. Journal of Geophysical Research, 2007, 112, .	3.3	16
21	The Earth's outgoing longwave radiation spectrum as seen by REFIR. , 2005, 5978, 428.		0
22	Breadboard of a Fourier-transform spectrometer for the Radiation Explorer in the Far Infrared atmospheric mission. Applied Optics, 2005, 44, 2870.	2.1	35
23	Spectral infrared analysis of a cirrus cloud based on Airborne Research Interferometer Evaluation System (ARIES) measurements. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	16
24	Radiative energy partition and cloud radiative forcing at a Po valley site. Atmospheric Research, 2004, 72, 329-351.	4.1	12
25	The ISSWG line-by-line inter-comparison experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 77, 433-453.	2.3	62
26	A study of infrared diabatic forcing of ice clouds in the tropical atmosphere. Journal of Geophysical Research, 2003, 108, .	3.3	19
27	Some considerations on the infrared cloud forcing. Journal of Geophysical Research, 2003, 108, .	3.3	8
28	Radiation Explorer in the Far Infrared BreadBoard (REFIR/BB) for the atmospheric emission measurement in the 100- to 1100-cm-1spectral range. , 2003, 4881, 448.		0
29	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
30	<title>Feasibility of the spaceborne radiation explorer in the far infrared (REFIR)</title>. , 2002, 4485, 202.		14
31	<title>Sensitivity of broadband and spectral measurements of outgoing radiance to changes in water vapor content</title>. , 2002, , .		6
32	<title>Fabry-Perot interferometer for atmospheric HCl and CH4 remote sensing</title>. , 2002, 4485, 107.		0
33	<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
34	Simulation of uplooking and downlooking high-resolution radiance spectra with two different radiative transfer models. Applied Optics, 2002, 41, 940.	2.1	12
35	Homomorphism between cloudy and clear spectral radiance in the 800â€“900-cm^-1 atmospheric window region. Applied Optics, 2002, 41, 965.	2.1	15
36	Radiances simulated in the presence of clouds by use of a fast radiative transfer model and a multiple-scattering scheme. Applied Optics, 2002, 41, 1604.	2.1	10

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37	IMG evidence of chlorofluorocarbon absorption in the atmospheric window region 800â€“900 cmâ¯1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 72, 623-635.	2.3	8
38	Comparison of measured and modeled stratus cloud infrared spectral signatures. Journal of Geophysical Research, 2001, 106, 34109-34119.	3.3	13
39	<title>Scientific background for CLOUDS: a cloud and radiation monitoring satellite</title>. , 2001, , .		0
40	Parameterisation of surface radiation flux at an Antarctic site. Atmospheric Research, 2000, 54, 245-261.	4.1	8
41	Far infrared scattering effects in cloudy sky. Physics and Chemistry of the Earth, 1999, 24, 243-247.	0.3	3
42	Cirrus cloud optical properties in far infrared. Physics and Chemistry of the Earth, 1999, 24, 269-273.	0.3	2
43	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
44	Effect of water and ice clouds in the outgoing long-wave radiation. , 1998, , .		0
45	Impact of radiometric noise on the performance of the Radiation Explorer in the Far Infrared (REFIR). , 1998, 3495, 256.		0
46	Evaluating the effect of the interâ€relationships among the different spectral bands on iasi performance. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 2231-2244.	2.7	7
47	A comparison of simulated outgoing long-wave flux and estimates from raw TOVS radiances. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1994, 17, 763-781.	0.2	1
48	Cloud Clearing of Infrared Sounder Radiances. Journal of Applied Meteorology and Climatology, 1994, 33, 179-194.	1.7	9
49	Telephotometer measurements and retrieved mass increase coefficients of the aerosol size distribution. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 107-129.	0.2	1
50	Comparison of temperature fields obtained from conventional and satellite data using an high-resolution objective analysis. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1988, 11, 405-428.	0.2	0
51	Retrieved and measured aerosol mass size distributions: a comparison. Applied Optics, 1986, 25, 546.	2.1	17
52	Nonlinear iterative retrieval of aerosol size distribution. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1985, 8, 501-514.	0.2	5
53	A simple method to calculate average spectra of clear sky solar radiation and their dependence on the atmospheric parameters. Revue De Physique AppliquÃ©e, 1985, 20, 109-120.	0.4	2
54	High-resolution satellite soundings over the Alpex area. The 4â€“5 March case study. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1984, 7, 317-337.	0.2	1

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55	Water vapor absorption in the visible and near infrared: results of field measurements. Applied Optics, 1984, 23, 1853.	2.1	14
56	Experimental validation of a spectral direct solar radiation model. Solar Energy, 1983, 31, 359-363.	6.1	13
57	Aerosol size spectra from spectral extinction data: the use of a linear inversion method. Applied Optics, 1982, 21, 1578.	2.1	23
58	Solar direct irradiance at the ground: A parametric approach. Solar Energy, 1980, 25, 15-20.	6.1	4