

Carmine Serio

List of Publications by Year in descending order

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174
papers

2,916
citations

186265

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45
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184
all docs

184
docs citations

184
times ranked

2125
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. Bulletin of the American Meteorological Society, 2012, 93, 347-370.	3.3	357
2	The \hat{I} -IASI code for the calculation of infrared atmospheric radiance and its derivatives. Environmental Modelling and Software, 2002, 17, 651-667.	4.5	103
3	Monitoring dam structural health from space: Insights from novel InSAR techniques and multi-parametric modeling applied to the Pertusillo dam Basilicata, Italy. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 221-229.	2.8	101
4	The Far-Infrared Earth. Reviews of Geophysics, 2008, 46, .	23.0	93
5	Markov processes and Fourier analysis as a tool to describe and simulate daily solar irradiance. Solar Energy, 1986, 37, 179-194.	6.1	72
6	The design of photovoltaic plants: An optimization procedure. Applied Energy, 1984, 18, 37-47.	10.1	67
7	The physical retrieval methodology for IASI: the \hat{I} -IASI code. Environmental Modelling and Software, 2005, 20, 1111-1126.	4.5	65
8	Simultaneous physical retrieval of surface emissivity spectrum and atmospheric parameters from infrared atmospheric sounder interferometer spectral radiances. Applied Optics, 2013, 52, 2428.	1.8	61
9	Kalman filter physical retrieval of surface emissivity and temperature from geostationary infrared radiances. Atmospheric Measurement Techniques, 2013, 6, 3613-3634.	3.1	61
10	Statistical cloud detection from SEVIRI multispectral images. Remote Sensing of Environment, 2008, 112, 750-766.	11.0	56
11	Physical inversion of the full IASI spectra: Assessment of atmospheric parameters retrievals, consistency of spectroscopy and forward modelling. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 128-157.	2.3	51
12	Kalman filter physical retrieval of surface emissivity and temperature from SEVIRI infrared channels: a validation and intercomparison study. Atmospheric Measurement Techniques, 2015, 8, 2981-2997.	3.1	47
13	Spectrally resolved observations of atmospheric emitted radiance in the H ₂ O rotation band. Geophysical Research Letters, 2008, 35, .	4.0	42
14	Application of \hat{I} -IASI to IASI: retrieval products evaluation and radiative transfer consistency. Atmospheric Chemistry and Physics, 2009, 9, 8771-8783.	4.9	40
15	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
16	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 . Optics Express, 2008, 16, 15816.	3.4	39
17	Inversion for atmospheric thermodynamical parameters of IASI data in the principal components space. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 103-117.	2.7	38
18	EAQUATE: An International Experiment For Hyperspectral Atmospheric Sounding Validation. Bulletin of the American Meteorological Society, 2008, 89, 203-218.	3.3	37

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19	Effect of apodization on the retrieval of geophysical parameters from Fourier-transform spectrometers. <i>Applied Optics</i> , 1998, 37, 6537.	2.1	36
20	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
21	Diurnal variation in Sahara desert sand emissivity during the dry season from IASI observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1626-1638.	3.3	34
22	The use of IASI data to identify systematic errors in the ECMWF forecasts of temperature in the upper stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1009-1021.	4.9	33
23	Cloud mask via cumulative discriminant analysis applied to satellite infrared observations: scientific basis and initial evaluation. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3355-3372.	3.1	33
24	Qualifying IMG tropical spectra for clear sky. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 77, 131-148.	2.3	31
25	Comparison of active and passive water vapor remote sensing from space: An analysis based on the simulated performance of IASI and space borne differential absorption lidar. <i>Remote Sensing of Environment</i> , 2005, 95, 211-230.	11.0	31
26	TROPOMI NO ₂ Tropospheric Column Data: Regridding to 1 km Grid-Resolution and Assessment of their Consistency with In Situ Surface Observations. <i>Remote Sensing</i> , 2020, 12, 2212.	4.0	31
27	Demonstration and validation of the I ₁ -IASI inversion scheme with NAST-I data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 217-232.	2.7	30
28	Statistical Classification for Assessing PRISMA Hyperspectral Potential for Agricultural Land Use. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 615-625.	4.9	30
29	Interferometric vs Spectral IASI Radiances: Effective Data-Reduction Approaches for the Satellite Sounding of Atmospheric Thermodynamical Parameters. <i>Remote Sensing</i> , 2010, 2, 2323-2346.	4.0	29
30	Diurnal emissivity dynamics in bare versus biocrusted sand dunes. <i>Science of the Total Environment</i> , 2015, 506-507, 422-429.	8.0	29
31	Physical Retrieval of Land Surface Emissivity Spectra from Hyper-Spectral Infrared Observations and Validation with In Situ Measurements. <i>Remote Sensing</i> , 2018, 10, 976.	4.0	29
32	Technical Note: Functional sliced inverse regression to infer temperature, water vapour and ozone from IASI data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5321-5330.	4.9	28
33	Evaluation of Radiative Transfer Models With Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6142-6157.	3.3	28
34	The Multiple Aperture SAR Interferometry (MAI) Technique for the Detection of Large Ground Displacement Dynamics: An Overview. <i>Remote Sensing</i> , 2020, 12, 1189.	4.0	27
35	Global Solar Radiation Estimation from Relative Sunshine Hours in Italy. <i>Journal of Applied Meteorology</i> , 1982, 21, 1377-1384.	1.1	26
36	Seasonal variation of aerosols properties in South Italy: a study on aerosol optical depths, Angström turbidity parameters and aerosol size distributions. <i>Atmospheric Environment</i> , 2004, 38, 1605-1614.	4.1	26

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37	Linear and nonlinear dynamics in electrical precursory time series: implications for earthquake prediction. <i>Tectonophysics</i> , 1998, 287, 279-298.	2.2	25
38	Interferometer for ground-based observations of emitted spectral radiance from the troposphere: evaluation and retrieval performance. <i>Applied Optics</i> , 2008, 47, 3909.	2.1	25
39	Validation of H ₂ O continuum absorption models in the wave number range 180–600 cm ⁻¹ with atmospheric emitted spectral radiance measured at the Antarctica Dome-C site. <i>Optics Express</i> , 2014, 22, 16784.	3.4	24
40	Change Detection Techniques with Synthetic Aperture Radar Images: Experiments with Random Forests and Sentinel-1 Observations. <i>Remote Sensing</i> , 2022, 14, 3323.	4.0	24
41	Objective algorithms for the aerosol problem. <i>Applied Optics</i> , 1995, 34, 5442.	2.1	22
42	Dimensionality-reduction approach to the thermal radiative transfer equation inverse problem. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	22
43	Consistency of dimensional distributions and refractive indices of desert dust measured over Lampedusa with IASI radiances. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 599-615.	3.1	21
44	Numerical methods for retrieving aerosol size distributions from optical measurements of solar radiation. <i>Journal of Aerosol Science</i> , 1998, 29, 1225-1236.	3.8	20
45	Infrared atmospheric sounder interferometer radiometric noise assessment from spectral residuals. <i>Applied Optics</i> , 2015, 54, 5924.	2.1	20
46	Autocorrelation of daily global solar radiation. <i>Il Nuovo Cimento Della Società Italiana Di Fisica C</i> , 1981, 4, 113-122.	0.2	19
47	Parametric time series analysis of extreme events in earthquake electrical precursors. <i>Tectonophysics</i> , 1996, 262, 159-172.	2.2	19
48	Simultaneous inversion for temperature and water vapor from IMG radiances. <i>Geophysical Research Letters</i> , 2000, 27, 2533-2536.	4.0	19
49	Intercomparison of line-parameter spectroscopic databases using downwelling spectral radiance. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 191-202.	2.7	19
50	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
51	PCA determination of the radiometric noise of high spectral resolution infrared observations from spectral residuals: Application to IASI. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 8-21.	2.3	19
52	Inverting for geophysical parameters from IMG radiances. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 1620-1632.	6.3	18
53	Cloud detection over sea surface by use of autocorrelation functions of upwelling infrared spectra in the 800–900-cm ⁻¹ window region. <i>Applied Optics</i> , 2000, 39, 3565.	2.1	18
54	Validation of line and continuum spectroscopic parameters with measurements of atmospheric emitted spectral radiance from far to mid infrared wave number range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1286-1299.	2.3	18

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55	Stochastic behaviour and scaling laws in geoelectrical signals measured in a seismic area of southern Italy. <i>Geophysical Journal International</i> , 1999, 139, 889-894.	2.4	17
56	Demonstration of random projections applied to the retrieval problem of geophysical parameters from hyper-spectral infrared observations. <i>Applied Optics</i> , 2016, 55, 6576.	2.1	17
57	CO2 spectroscopy and forward/inverse radiative transfer modelling in the thermal band using IASI spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 222-223, 65-83.	2.3	17
58	Physical and optical properties of atmospheric aerosols by in-situ and radiometric measurements. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2195-2208.	4.9	16
59	Assessment of IASI capability for retrieving carbonyl sulphide (OCS). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 197-208.	2.3	16
60	Statistical correlation between daily and monthly averages of solar-radiation data. <i>Il Nuovo Cimento Della Societ� Italiana Di Fisica C</i> , 1979, 2, 222-234.	0.2	15
61	Statistical Predictability and Parametric Models of Daily Ambient Temperature and Solar Irradiance: An Analysis in the Italian Climate. <i>Journal of Applied Meteorology and Climatology</i> , 1989, 28, 711-721.	1.7	15
62	Measurements of nighttime atmospheric optical depth preliminary data from a mountain site in southern Italy. <i>Journal of Aerosol Science</i> , 1998, 29, 1213-1218.	3.8	15
63	Homomorphism between cloudy and clear spectral radiance in the 800-900-cm ⁻¹ atmospheric window region. <i>Applied Optics</i> , 2002, 41, 965.	2.1	15
64	Cloud Detection of MODIS Multispectral Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 347-365.	1.3	15
65	Discriminating low-dimensional chaos from randomness: A parametric time series modelling approach. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1992, 107, 681-701.	0.2	14
66	Intercomparing the Twomey method with a multimodal lognormal approach to retrieve the aerosol size distribution. <i>Journal of Geophysical Research</i> , 1996, 101, 19267-19275.	3.3	14
67	<title>Feasibility of the spaceborne radiation explorer in the far infrared (REFIR)</title>., 2002, 4485, 202.		14
68	A preliminary study on the correlation between TOMS aerosol index and ground-based measured aerosol optical depth. <i>Atmospheric Environment</i> , 2001, 35, 5093-5098.	4.1	13
69	Assessment of the accuracy of scaling methods for radiance simulations at far and mid infrared wavelengths. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 271, 107739.	2.3	13
70	Non-linear oscillations in a passive magnetic suspension. <i>International Journal of Non-Linear Mechanics</i> , 2006, 41, 1039-1049.	2.6	12
71	Partially scanned interferogram methodology applied to IASI for the retrieval of CO, CO ₂ , CH ₄ and N ₂ O. <i>Optics Express</i> , 2013, 21, 24753.	3.4	12
72	Autoregressive Representation of Time Series as a Tool to Diagnose the Presence of Chaos. <i>Europhysics Letters</i> , 1994, 27, 103-108.	2.0	11

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73	Vertical and horizontal aerosol spectral extinction at a rural location in southern Italy. <i>Journal of Geophysical Research</i> , 1996, 101, 19285-19292.	3.3	11
74	Infrared Atmospheric Sounding Interferometer correlation interferometry for the retrieval of atmospheric gases: the case of H ₂ O and CO ₂ . <i>Applied Optics</i> , 2011, 50, 4516.	2.1	11
75	Comparison of IASI water vapour products over complex terrain with COPS campaign data. <i>Meteorologische Zeitschrift</i> , 2013, 22, 471-487.	1.0	11
76	Determining Å...ngstrÅm's Turbidity Coefficients: An Analysis with a Wide-Range Grating Spectrometer. <i>Aerosol Science and Technology</i> , 1993, 18, 59-69.	3.1	10
77	Retrieving N ₂ O from nadir-viewing infrared spectrometers. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2004, 56, 249-261.	1.6	10
78	On the Use of Weighted Least-Squares Approaches for Differential Interferometric SAR Analyses: The Weighted Adaptive Variable-Length (WAVE) Technique. <i>Sensors</i> , 2020, 20, 1103.	3.8	10
79	Discriminating randomness from chaos with application to a weather time series. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1994, 46, 299-313.	1.7	9
80	Inverting High Spectral Resolution Aerosol Optical Depth to Determine the Size Distribution of Atmospheric Aerosol. <i>Aerosol Science and Technology</i> , 1995, 23, 591-602.	3.1	9
81	Cloud Clearing of Infrared Sounder Radiances. <i>Journal of Applied Meteorology and Climatology</i> , 1994, 33, 179-194.	1.7	9
82	Combined IASI-NG and MWS Observations for the Retrieval of Cloud Liquid and Ice Water Path: A Deep Learning Artificial Intelligence Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 3313-3322.	4.9	9
83	Effects of thermal control and of passive solar elements on the dynamic behaviour of a building. <i>Applied Energy</i> , 1984, 17, 263-282.	10.1	8
84	Behavior of hourly solar irradiance in the Italian climate. <i>Solar Energy</i> , 1988, 40, 65-79.	6.1	8
85	IMG evidence of chlorofluorocarbon absorption in the atmospheric window region 800â900 cm ⁻¹ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 72, 623-635.	2.3	8
86	IMG retrieval and comparison with TOMS/ADEOS columnar ozone: an analysis based on tropical soundings. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 95, 331-348.	2.3	8
87	REFIR/BB initial observations in the water vapour rotational band: Results from a field campaign. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 103, 524-535.	2.3	8
88	Stochastic modelling of solar-radiation data. <i>Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C</i> , 1985, 8, 248-258.	0.2	7
89	Behaviour of ambient temperature on daily basis in Italian climate. <i>Revue De Physique AppliquÃ©e</i> , 1986, 21, 211-218.	0.4	7
90	Linearization pseudo-noise and its effect on the retrieval of atmospheric state from infrared spectral radiances. <i>Geophysical Research Letters</i> , 1996, 23, 2565-2568.	4.0	7

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91	Evaluating the effect of the interrelationships among the different spectral bands oniasi performance. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 2231-2244.	2.7	7
92	An effective water vapor self-broadening scheme for look-up-table-based radiative transfer. , 2003, 4882, 52.		7
93	Characterization of the Observational Covariance Matrix of Hyper-Spectral Infrared Satellite Sensors Directly from Measured Earth Views. Sensors, 2020, 20, 1492.	3.8	7
94	<title>Sensitivity of broadband and spectral measurements of outgoing radiance to changes in water vapor content</title>. , 2002, , .		6
95	A neural network to retrieve atmospheric parameters from infrared high resolution sensor spectra. , 0, , .		6
96	Retrieving N2O from nadir-viewing infrared spectrometers. Tellus, Series B: Chemical and Physical Meteorology, 2004, 56, 249-261.	1.6	6
97	Exploiting quartz spectral signature for the detection of cloud-affected satellite infrared observations over African desert areas. Applied Optics, 2004, 43, 2305.	2.1	6
98	Proba-V cloud detection Round Robin: Validation results and recommendations. , 2017, , .		6
99	SEVIRI Hyper-Fast Forward Model with Application to Emissivity Retrieval. Sensors, 2019, 19, 1532.	3.8	6
100	A Multigrid InSAR Technique for Joint Analyses at Single-Look and Multi-Look Scales. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
101	Check of a computer program for calculating long-term performance of solar flat-plate collectors. Applied Energy, 1980, 7, 93-108.	10.1	5
102	A differential absorption technique in the near infra-red to determine precipitable water. Atmospheric Environment, 1994, 28, 977-987.	4.1	5
103	PREDICTABILITY ANALYSIS OF SO2 TIME SERIES BY LINEAR AND NON-LINEAR FORECASTING APPROACHES. , 1996, 7, 525-535.		5
104	Compression of AVHRR images by wavelet packets. Environmental Modelling and Software, 2000, 15, 127-138.	4.5	5
105	Diurnal and Nocturnal Measurements of Aerosol Optical Depth at a Desert Site in Namibia. Aerosol Science and Technology, 2003, 37, 392-400.	3.1	5
106	Simultaneous retrieval of OCS, and CO2 from the IASI shortwave spectral band: assessment of the accuracy of the retrieval products and validation with in situ observations.. , 2020, , .		5
107	Solar direct irradiance at the ground: A parametric approach. Solar Energy, 1980, 25, 15-20.	6.1	4
108	Discriminating randomness from chaos with application to a weather time series. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 299-313.	1.7	4

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109	Finding chaos in experimental time series: The case of two-phase flow. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1995, 110, 1415-1428.	0.2	4
110	Self-scaling properties of the structure functions at moderate Reynolds numbers. Europhysics Letters, 1996, 35, 653-658.	2.0	4
111	New quasi-analytical method for evaluating the coefficients of a linearized RTE model. , 1997, 3220, 148.		4
112	Fractality in broken clouds and the scan geometry of new satellite-borne infrared sensors. International Journal of Remote Sensing, 2001, 22, 889-894.	2.9	4
113	Seasonal variability of degrees of freedom and its effect over time series and spatial patterns of atmospheric gases from satellite: application to carbonyl sulfide (OCS). , 2021, , .		4
114	CO2 retrieval algorithm for the Infrared Atmospheric Sounder Interferometer: the potential of retrieving the vertical profile of carbon dioxide from its hot or laser bands in the 800-1200 cm-1 atmospheric window. , 2019, , .		4
115	Emissivity-based vegetation indices to monitor deforestation and forest degradation in the Congo basin rainforest. , 2020, , .		4
116	Daily efficiency of solar collectors. Applied Energy, 1982, 10, 189-202.	10.1	3
117	A dynamic linear programming approach to market allocation of renewable resources in the italian energy system: The case of solar thermal and biogas technologies. International Journal of Energy Research, 1985, 9, 33-51.	4.5	3
118	The CHIARA inversion algorithm for IMG. , 1998, , .		3
119	Measurement campaign of atmospheric water vapour and aerosols in southern Italy. , 2003, , .		3
120	Hyper fast radiative transfer for the physical retrieval of surface parameters from SEVIRI observations. Journal of Physics: Conference Series, 2015, 633, 012059.	0.4	3
121	Simultaneous physical retrieval of Martian geophysical parameters using Thermal Emission Spectrometer spectra: the Ĩt-MARS algorithm. Applied Optics, 2015, 54, 2334.	1.8	3
122	Structural health monitoring of engineered structures using a space-borne synthetic aperture radar multi-temporal approach: from cultural heritage sites to war zones. Proceedings of SPIE, 2016, , .	0.8	3
123	<title>Correlative ground-based lidar measurements for LITE</title>. , 1995, , .		2
124	Daily variation of the aerosol size distribution at a rural location in Southern Italy. Journal of Aerol Science, 1995, 26, S75-S76.	3.8	2
125	Wavelet Compression of AVHRR Imagery. Fractals, 1997, 05, 11-22.	3.7	2
126	Retrieval of temperature vertical profile from radiance spectra by inversion of the radiative transfer equation. , 1997, , .		2

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127	Channel selection for water vapor retrieval. , 2003, 4882, 363.		2
128	The Italian phase of the EAQUATE measurement campaign. , 2005, , .		2
129	Application of the 5fâ€IASI radiative transfer model to IASI. , 2009, , .		2
130	Potential of the MTCâ€ERS mission to resolve small scale variability of atmospheric humidity. , 2009, , .		2
131	PRE-EARTHQUAKES, an FP7 project for integrating observations and knowledges on earthquake precursors: Preliminary results and strategy. , 2012, , .		2
132	Search for Martian methane with TES data: development of a dedicated radiative transfer code: first results. Proceedings of SPIE, 2013, , .	0.8	2
133	The very first multi-temporal and multi-spectral Level-2 SEVIRI processor for the simultaneous physical retrieval of surface temperature and emissivity. AIP Conference Proceedings, 2017, , .	0.4	2
134	Introducing the Bulletin of Atmospheric Science and Technology. Bulletin of Atmospheric Science and Technology, 2020, 1, 1-11.	0.9	2
135	Cloud liquid and ice water content estimation from satellite: a regression approach based on neural networks. , 2021, , .		2
136	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
137	Trombe walls and green-houses : an analytical approach to long-term performances analysis. Revue De Physique AppliquÃ©e, 1985, 20, 589-598.	0.4	2
138	Emissivity Based Indices for Drought and Forest Fire. , 2021, , .		2
139	Four years of IASI CO2, CH4, N2O retrievals: validation with in situ observations from the Mauna Loa station. , 2018, , .		2
140	The rÃ1le of renewable energy sources in the Italian agricultural system. Applied Energy, 1985, 20, 287-299.	10.1	1
141	Ozone correction to the aerosol optical depth in the chappuis band. Journal of Aerosol Science, 1998, 29, 1219-1224.	3.8	1
142	Probability density of velocity increments in weakly turbulent pipe flow. Europhysics Letters, 1998, 42, 605-610.	2.0	1
143	SEVIRI Cloud mask by Cumulative Discriminant Analysis. Journal of Physics: Conference Series, 2015, 633, 012056.	0.4	1
144	Operational Monitoring of Trace Gases over the Mediterranean Sea. Advances in Meteorology, 2015, 2015, 1-9.	1.6	1

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145	Using the full IASI spectrum for the physical retrieval of temperature, H2O, HDO, O3, minor and trace gases. AIP Conference Proceedings, 2017, , .	0.4	1
146	All-sky radiative transfer calculations for IASI and IASI-NG: The IASI-NG code. AIP Conference Proceedings, 2017, , .	0.4	1
147	Assessment of air quality with TROPOMI during COVID-19 pandemic: NO2 over the Po valley. , 2021, , .		1
148	An optimal interpolation scheme for surface and atmospheric parameters: applications to SEVIRI and IASI. , 2019, , .		1
149	Capability of High Spectral Resolution Observations in the Infrared to Detect Water Vapor Structures. , 2007, , .		1
150	Statistical correlation between hourly and daily values of solar radiation on horizontal surface at sea level in the Italian climate. Revue De Physique Appliquée, 1986, 21, 219-227.	0.4	1
151	Cloud detection from IASI hyperspectral data: a statistical approach based on neural networks. , 2020, , .		1
152	A simulation of daily solar irradiance in Italy using exponentially distributed white noise. Atmospheric Research, 1988, 21, 261-271.	4.1	0
153	<title>Satellite- and ground-based atmospheric water vapor measurements: a comparative study</title>. , 1995, 2506, 372.		0
154	Scale invariance and multifractal structure in transitional pipe flow. Europhysics Letters, 1996, 36, 669-674.	2.0	0
155	Impact of radiometric noise on the performance of the Radiation Explorer in the Far Infrared (REFIR). , 1998, 3495, 256.		0
156	<title>Simultaneous temperature and water vapor profile from IASI radiances</title>. , 2001, , .		0
157	<title>Comparison of modified Twomey method and an anomalous diffraction approximation technique for aerosol size distribution retrieval</title>. , 2001, , .		0
158	<title>Fully quadratic convergent inversion scheme for IASI</title>. , 2001, , .		0
159	Correlation between ground-based aerosol optical depth and TOMS aerosol index: a comparison between measurements and MODTRAN simulations. , 2002, 4539, 481.		0
160	Infrared atmospheric sounding interferometer performance for temperature and water vapor retrieval. , 2002, 4539, 94.		0
161	Retrieval of atmospheric parameters with neural network inversion of infrared high-resolution sensor spectra. , 2003, 4882, 335.		0
162	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

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163	Aerosol optical properties variation on different mountain sites in Italy. Proceedings of SPIE, 2007, , .	0.8	0
164	Impact of new water vapor continuum coefficients in the far infrared on atmospheric fluxes and cooling rates. , 2009, , .		0
165	Ground-Based and Balloon-Borne Characterization of the Far Infrared Atmospheric Emission Spectrum. , 2009, , .		0
166	Evaluation of a dimension-reduction-based statistical technique for Temperature, Water Vapour and Ozone retrievals from IASI radiances. , 2009, , .		0
167	Fourier Transform Spectroscopy with Partially Scanned Interferograms as a Tool to Retrieve Atmospheric Gases Concentrations from High Spectral Resolution Satellite Observations - Methodological Aspects and Application to IASI. , 0, , .		0
168	Tropospheric Excess Path Delay Compensation on Wrapped Ground-Based SAR Interferograms. , 2021, , .		0
169	Cloud Detection, Temperature and Water Vapor Retrieval from Hyperspectral Infrared Sounder Observations. , 2005, , .		0
170	Dimensionality reduction through random projections for application to the retrieval of atmospheric parameters from hyperspectral satellite sensors. , 2018, , .		0
171	Assessment of cumulative discriminant analysis for cloud detection in the ESA PROBA-V Round Robin exercise. , 2019, , .		0
172	CO2 Profiling by Space-Borne Raman Lidar. EPJ Web of Conferences, 2020, 237, 01004.	0.3	0
173	A Generalized-SVD-Based Technique for Enhancing Performance of Multi-Temporal Dinsar Analyses: The Weighted Adaptive Variable-Length (Wave) Technique. , 2020, , .		0
174	An application to Mediterranean Sea of the SEVIRI level 2 processor for surface parameters. , 2019, , .		0