

Stefano Casadio

List of Publications by Year in descending order

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35
papers

531
citations

687363

13
h-index

713466

21
g-index

35
all docs

35
docs citations

35
times ranked

641
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas flaring monitoring from space using the ATSR instrument series. Remote Sensing of Environment, 2012, 116, 239-249.	11.0	60
2	Global night-time fire season timing and fire count trends using the ATSR instrument series. Remote Sensing of Environment, 2012, 116, 226-238.	11.0	51
3	Application of neural algorithms for a real-time estimation of ozone profiles from GOME measurements. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2263-2270.	6.3	44
4	Neural networks for the dimensionality reduction of GOME measurement vector in the estimation of ozone profiles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 275-291.	2.3	38
5	Use of ATSR and SAR measurements for the monitoring and characterisation of night-time gas flaring from off-shore platforms: The North Sea test case. Remote Sensing of Environment, 2012, 123, 175-186.	11.0	34
6	Monitoring the South Atlantic Anomaly using ATSR instrument series. Advances in Space Research, 2011, 48, 1056-1066.	2.6	33
7	Tropospheric Ozone Column Retrieval From ESA-Envisat SCIAMACHY Nadir UV/VIS Radiance Measurements by Means of a Neural Network Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 998-1011.	6.3	28
8	Convective characteristics of the nocturnal urban boundary layer as observed with Doppler sodar and Raman lidar. Boundary-Layer Meteorology, 1996, 79, 375-391.	2.3	23
9	Empirical retrieval of the atmospheric air mass factor (ERA) for the measurement of water vapour vertical content using GOME data. Geophysical Research Letters, 2000, 27, 1483-1486.	4.0	19
10	On the effect of sea breeze regime on aerosols and gases properties in the urban area of Rome, Italy. Urban Climate, 2021, 37, 100842.	5.7	19
11	Come ozone profiles retrieved by neural network techniques: A global validation with lidar measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 107, 105-119.	2.3	17
12	On the role of visible radiation in ozone profile retrieval from nadir UV/VIS satellite measurements: An experiment with neural network algorithms inverting SCIAMACHY data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1429-1436.	2.3	16
13	Impact of synoptic meteorological conditions on air quality in three different case studies in Rome, Italy. Atmospheric Pollution Research, 2021, 12, 76-88.	3.8	16
14	Total column water vapour from along track scanning radiometer series using thermal infrared dual view ocean cloud free measurements: The Advanced Infra-Red Water Vapour Estimator (AIRWAVE) algorithm. Remote Sensing of Environment, 2016, 172, 1-14.	11.0	13
15	Observations of Atmospheric Solitary Waves in the Urban Boundary Layer. Boundary-Layer Meteorology, 2004, 111, 85-108.	2.3	12
16	The Boundary Layer Air Quality-Analysis Using Network of Instruments (BAQUNIN) Supersite for Atmospheric Research and Satellite Validation over Rome Area. Bulletin of the American Meteorological Society, 2022, 103, E599-E618.	3.3	10
17	ABLE: Development of an Airborne Lidar. Journal of Atmospheric and Oceanic Technology, 1999, 16, 1337-1344.	1.3	9
18	Estimation Of Atmospheric Water Vapour Flux Profiles In The Nocturnal Unstable Urban Boundary Layer With Doppler Sodar And Raman Lidar. Boundary-Layer Meteorology, 2002, 102, 39-62.	2.3	9

#	ARTICLE	IF	CITATIONS
19	Advanced NO ₂ retrieval technique for the Brewer spectrophotometer applied to the 20-year record in Rome, Italy. <i>Earth System Science Data</i> , 2021, 13, 4929-4950.	9.9	9
20	Intercomparison between GOME Ozone Profiles Retrieved by Neural Network Inversion Schemes and ILAS Products. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 1433-1440.	1.3	8
21	Analysis of two-decade meteorological and air quality trends in Rome (Italy). <i>Theoretical and Applied Climatology</i> , 2022, 149, 291-307.	2.8	8
22	Observation of lump structures in the nocturnal atmospheric boundary layer with Doppler sonar and Raman lidar. <i>Geophysical Research Letters</i> , 1995, 22, 2505-2508.	4.0	7
23	Satellite on-board temperatures: Proxy measurements of Earth's climate changes?. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	6
24	An intercalibrated dataset of total column water vapour and wet tropospheric correction based on MWR on board ERS-1, ERS-2, and Envisat. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1387-1402.	3.1	6
25	ITCZ trend analysis via Geodesic P-spline smoothing of the AIRWAVE TCWV and cloud frequency datasets. <i>Atmospheric Research</i> , 2018, 214, 228-238.	4.1	6
26	Classification of synoptic and local-scale wind patterns using k-means clustering in a Tyrrhenian coastal area (Italy). <i>Meteorology and Atmospheric Physics</i> , 2022, 134, 1.	2.0	6
27	Observation of polar stratospheric clouds with the ABLE LIDAR during the APE-POLECAT flight of January 9, 1997. <i>Journal of Aerosol Science</i> , 2003, 34, 801-814.	3.8	5
28	Dedicated neural networks algorithms for direct estimation of tropospheric ozone from satellite measurements. , 2007, , .		4
29	Note on the quality of the (A)ATSR land surface temperature record from 1991 to 2009. <i>International Journal of Remote Sensing</i> , 2012, 33, 4178-4192.	2.9	4
30	The Advanced Infra-Red Water Vapour Estimator (AIRWAVE) version 2: algorithm evolution, dataset description and performance improvements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 371-388.	3.1	4
31	Validation of the Advanced Infra-Red Water Vapour Estimator (AIRWAVE) Total Column Water Vapour using Satellite and Radiosonde products.. <i>Annals of Geophysics</i> , 2018, 61, .	1.0	4
32	A new method for the validation of the GOMOS high resolution temperature profiles products. <i>Annals of Geophysics</i> , 2014, 57, .	1.0	2
33	Validation of minor species of the MIPAS2D database. <i>Annals of Geophysics</i> , 2014, , .	1.0	1
34	Lee wave detection over the Mediterranean Sea using the Advanced Infra-Red Water Vapour Estimator (AIRWAVE) total column water vapour (TCWV) dataset. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6683-6693.	3.1	0
35	The Atmospheric Composition Validation and Evolution Workshop (ACVE2013) - Recommendations. <i>Annals of Geophysics</i> , 2014, 56, .	1.0	0