Anna-Maria Siani

List of Publications by Year
in descending order

64	1,165	394421 19	454955 30
papers	citations	h-index	g-index

80	80	80	1150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Variability of UV Irradiance in Europe. Photochemistry and Photobiology, 2008, 84, 172-179.	2.5	92
2	A canopy layer model and its application to Rome. Science of the Total Environment, 2006, 364, 1-13.	8.0	61
3	Occupational Exposures to Solar Ultraviolet Radiation of Vineyard Workers in Tuscany (Italy). Photochemistry and Photobiology, 2011, 87, 925-934.	2.5	59
4	UV Index monitoring in Europe. Photochemical and Photobiological Sciences, 2017, 16, 1349-1370.	2.9	52
5	Does solar ultraviolet radiation play a role in COVID-19 infection and deaths? An environmental ecological study in Italy. Science of the Total Environment, 2021, 757, 143757.	8.0	44
6	A Critical Assessment of Two Types of Personal UV Dosimeters. Photochemistry and Photobiology, 2012, 88, 215-222.	2.5	41
7	Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy. Environments - MDPI, 2020, 7, 1.	3.3	39
8	Solar UV Dose Patterns in Italy. Photochemistry and Photobiology, 2000, 71, 681.	2.5	39
9	Shortâ€term UV Exposure of Sunbathers at a Mediterranean Sea Site. Photochemistry and Photobiology, 2009, 85, 171-177.	2.5	36
10	Review on Nonoccupational Personal Solar UV Exposure Measurements. Photochemistry and Photobiology, 2018, 94, 900-915.	2.5	33
11	Europeâ€™s darker atmosphere in the UV-B. Photochemical and Photobiological Sciences, 2008, 7, 925-930.	2.9	30
12	Response of the ozone column over Europe to the 2011 Arctic ozone depletion event according to ground-based observations and assessment of the consequent variations in surface UV irradiance. Atmospheric Environment, 2014, 85, 169-178.	4.1	28
13	Assessment of indoor climate of MogiÅ‚a Abbey in KrakÃ³w (Poland) and the application of the analogues method to predict microclimate indoor conditions. Environmental Science and Pollution Research, 2017, 24, 13895-13907.	5.3	27
14	Extreme UV index and solar exposures at Plateau RosÃ (3500 m a.s.l.) in Valle dâ€™Aosta Region, Italy. Science of the Total Environment, 2015, 512-513, 622-630.	8.0	26
15	First national intercomparison of solar ultraviolet radiometers in Italy. Atmospheric Measurement Techniques, 2011, 4, 1689-1703.	3.1	24
16	The role of urban boundary layer investigated with high-resolution models and ground-based observations in Rome area: a step towards understanding parameterization potentialities. Atmospheric Measurement Techniques, 2014, 7, 315-332.	3.1	23
17	Ozone column retrieval from solar UV measurements at ground level: Effects of clouds and results from six European sites. Journal of Geophysical Research, 2005, 110, .	3.3	22
18	Investigation on the capability of polysulphone for measuring biologically effective solar UV exposures. Photochemical and Photobiological Sciences, 2014, 13, 521-530.	2.9	20

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19	Assessment of the Minimum Sampling Frequency to Avoid Measurement Redundancy in Microclimate Field Surveys in Museum Buildings. Sensors, 2016, 16, 1291.	3.8	20
20	Investigation on a low ozone episode at the end of November 2000 and its effect on ultraviolet radiation. Optical Engineering, 2002, 41, 3082.	1.0	19
21	UV-Index Climatology for Europe Based on Satellite Data. Atmosphere, 2020, 11, 727.	2.3	19
22	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
23	Climate-induced risk for the preservation of paper collections: Comparative study among three historic libraries in Italy. Building and Environment, 2021, 206, 108394.	6.9	19
24	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 551-574.	4.9	18
25	Improved retrieval of nitrogen dioxide (NO₂) column densities by means of MKIV Brewer spectrophotometers. Atmospheric Measurement Techniques, 2014, 7, 4009-4022.	3.1	17
26	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. Atmospheric Measurement Techniques, 2020, 13, 6999-7024.	3.1	17
27	Applicability of the Polysulphone Horizontal Calibration to Differently Inclined Dosimeters. Photochemistry and Photobiology, 2012, 88, 207-214.	2.5	16
28	Examination on total ozone column retrievals by Brewer spectrophotometry using different processing software. Atmospheric Measurement Techniques, 2018, 11, 5105-5123.	3.1	16
29	A Comprehensive Study of the Microclimate-Induced Conservation Risks in Hypogeal Sites: The Mithraeum of the Baths of Caracalla (Rome). Sensors, 2020, 20, 3310.	3.8	16
30	Performance assessment of hygrothermal modelling for diagnostics and conservation in an Italian historical church. Building and Environment, 2021, 193, 107672.	6.9	16
31	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
32	Review on Occupational Personal Solar UV Exposure Measurements. Atmosphere, 2021, 12, 142.	2.3	14
33	Monitoring of solar spectral ultraviolet irradiance in Aosta, Italy. Earth System Science Data, 2020, 12, 2787-2810.	9.9	13
34	Tropical storm impact in Central America. Meteorological Applications, 2006, 13, 21.	2.1	12
35	Stucco panels of Room VI in the Galleria Borghese (Rome): Physicalâ€“chemical analysis and microclimate characterization. Energy and Buildings, 2013, 61, 133-139.	6.7	12
36	Cluster analysis of microclimate data to optimize the number of sensors for the assessment of indoor environment within museums. Environmental Science and Pollution Research, 2018, 25, 28787-28797.	5.3	12

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37	Investigation on the Use of Passive Microclimate Frames in View of the Climate Change Scenario. Climate, 2019, 7, 98.	2.8	12
38	A method based on environmental monitoring and building dynamic simulation to assess indoor climate control strategies in the preventive conservation within historical buildings. Science and Technology for the Built Environment, 2019, 25, 1253-1268.	1.7	11
39	Novel Model Based on Artificial Neural Networks to Predict Short-Term Temperature Evolution in Museum Environment. Sensors, 2022, 22, 615.	3.8	10
40	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
41	Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment. Atmospheric Measurement Techniques, 2021, 14, 5657-5699.	3.1	9
42	Mechanical properties of the most common European woods: a literature review. Frattura Ed Integrita Strutturale, 2020, 14, 249-274.	0.9	9
43	Advanced NO₂ retrieval technique for the Brewer spectrophotometer applied to the 20-year record in Rome, Italy. Earth System Science Data, 2021, 13, 4929-4950.	9.9	9
44	Variability and trends in surface solar spectral ultraviolet irradiance in Italy: on the influence of geopotential height and lower-stratospheric ozone. Atmospheric Chemistry and Physics, 2021, 21, 18689-18705.	4.9	9
45	Analysis of two-decade meteorological and air quality trends in Rome (Italy). Theoretical and Applied Climatology, 2022, 149, 291-307.	2.8	8
46	Atmospheric stagnation episodes and hospital admissions. Public Health, 2008, 122, 1128-1130.	2.9	7
47	Discrimination between softwood and hardwood based on hemicellulose content obtained with portable nuclear magnetic resonance. Cellulose, 2022, 29, 7917-7934.	4.9	7
48	Toward optimizing Brewer zenith sky total ozone measurements at the Italian stations of Rome and Ispra. Journal of Geophysical Research, 1995, 100, 3017.	3.3	6
49	Quantitative evaluation of personal exposure to UV radiation of workers and general public. Radiation Protection Dosimetry, 2009, 137, 193-196.	0.8	6
50	Biologically effective surface UV climatology at Rome and Aosta, Italy. AIP Conference Proceedings, 2013, , .	0.4	6
51	Vertical profile of the clear-sky aerosol direct radiative effect in an Alpine valley, by the synergy of ground-based measurements and radiative transfer simulations. Bulletin of Atmospheric Science and Technology, 2021, 2, 1.	0.9	6
52	The 2020 Arctic ozone depletion and signs of its effect on the ozone column at lower latitudes. Bulletin of Atmospheric Science and Technology, 2021, 2, 1.	0.9	5
53	Aerosol optical characteristics in the urban area of Rome, Italy, and their impact on the UV index. Atmospheric Measurement Techniques, 2022, 15, 1171-1183.	3.1	5
54	Conservation risks for paper collections induced by the microclimate in the repository of the Alessandrina Library in Rome (Italy). Heritage Science, 2022, 10, .	2.3	5

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55	Visibility: An investigation based on a multivariate adaptive regression spline technique. Meteorological Applications, 2007, 3, 353-358.	2.1	4
56	Solar ultraviolet irradiance measurements in Aosta (Italy): An analysis of short- and middle-term spectral variability. , 2013, , .		4
57	Capability and limitations in measuring atmospheric nitrogen dioxide column amounts by means of the MKIV Brewer spectrophotometers. Proceedings of SPIE, 2013, , .	0.8	3
58	Calibration of Acoustic Emission Parameters in Relation to the Equilibrium Moisture Content Variations in a Pinus sylvestris Beam. Applied Sciences (Switzerland), 2021, 11, 5236.	2.5	3
59	Influencing Factors in Acoustic Emission Detection: A Literature Review Focusing on Grain Angle and High/Low Tree Ring Density of Scots Pine. Applied Sciences (Switzerland), 2022, 12, 859.	2.5	3
60	A Statistical Approach for A-Posteriori Deployment of Microclimate Sensors in Museums: A Case Study. Sensors, 2022, 22, 4547.	3.8	3
61	Solar UV Dose Patterns in Italy. Photochemistry and Photobiology, 2007, 71, 681-690.	2.5	2
62	CleAir Monitoring System for Particulate Matter: A Case in the Napoleonic Museum in Rome. Sensors, 2017, 17, 2076.	3.8	2
63	A simple device for the evaluation of the UV radiation index. Meteorological Applications, 2003, 10, 115-121.	2.1	1
64	Surface UV radiation monitoring at two Italian Brewer stations (Rome and Ispra): a first comparison with OMI data. , 2006, , .		1