

# Anna-Maria Siani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1165740/publications.pdf>

Version: 2024-02-01

64  
papers

1,165  
citations

394421

19  
h-index

454955

30  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Model Based on Artificial Neural Networks to Predict Short-Term Temperature Evolution in Museum Environment. <i>Sensors</i> , 2022, 22, 615.	3.8	10
2	Influencing Factors in Acoustic Emission Detection: A Literature Review Focusing on Grain Angle and High/Low Tree Ring Density of Scots Pine. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 859.	2.5	3
3	The Boundary Layer Air Quality-Analysis Using Network of Instruments (BAQUNIN) Supersite for Atmospheric Research and Satellite Validation over Rome Area. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E599-E618.	3.3	10
4	Aerosol optical characteristics in the urban area of Rome, Italy, and their impact on the UV index. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1171-1183.	3.1	5
5	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
6	Conservation risks for paper collections induced by the microclimate in the repository of the Alessandrina Library in Rome (Italy). <i>Heritage Science</i> , 2022, 10, .	2.3	5
7	A Statistical Approach for A-Posteriori Deployment of Microclimate Sensors in Museums: A Case Study. <i>Sensors</i> , 2022, 22, 4547.	3.8	3
8	Discrimination between softwood and hardwood based on hemicellulose content obtained with portable nuclear magnetic resonance. <i>Cellulose</i> , 2022, 29, 7917-7934.	4.9	7
9	Does solar ultraviolet radiation play a role in COVID-19 infection and deaths? An environmental ecological study in Italy. <i>Science of the Total Environment</i> , 2021, 757, 143757.	8.0	44
10	Review on Occupational Personal Solar UV Exposure Measurements. <i>Atmosphere</i> , 2021, 12, 142.	2.3	14
11	Performance assessment of hygrothermal modelling for diagnostics and conservation in an Italian historical church. <i>Building and Environment</i> , 2021, 193, 107672.	6.9	16
12	Impact of synoptic meteorological conditions on air quality in three different case studies in Rome, Italy. <i>Atmospheric Pollution Research</i> , 2021, 12, 76-88.	3.8	16
13	On the effect of sea breeze regime on aerosols and gases properties in the urban area of Rome, Italy. <i>Urban Climate</i> , 2021, 37, 100842.	5.7	19
14	Calibration of Acoustic Emission Parameters in Relation to the Equilibrium Moisture Content Variations in a <i>Pinus sylvestris</i> Beam. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5236.	2.5	3
15	Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5657-5699.	3.1	9
16	The 2020 Arctic ozone depletion and signs of its effect on the ozone column at lower latitudes. <i>Bulletin of Atmospheric Science and Technology</i> , 2021, 2, 1.	0.9	5
17	Climate-induced risk for the preservation of paper collections: Comparative study among three historic libraries in Italy. <i>Building and Environment</i> , 2021, 206, 108394.	6.9	19
18	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. <i>Bulletin of Atmospheric Science and Technology</i> , 2021, 2, 1.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Advanced NO <sub>2</sub> 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	Variability and trends in surface solar spectral ultraviolet irradiance in Italy: on the influence of geopotential height and lower-stratospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18689-18705.	4.9	9
21	UV-Index Climatology for Europe Based on Satellite Data. <i>Atmosphere</i> , 2020, 11, 727.	2.3	19
22	Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy. <i>Environments - MDPI</i> , 2020, 7, 1.	3.3	39
23	A Comprehensive Study of the Microclimate-Induced Conservation Risks in Hypogeal Sites: The Mithraeum of the Baths of Caracalla (Rome). <i>Sensors</i> , 2020, 20, 3310.	3.8	16
24	Mechanical properties of the most common European woods: a literature review. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 249-274.	0.9	9
25	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6999-7024.	3.1	17
26	Monitoring of solar spectral ultraviolet irradiance in Aosta, Italy. <i>Earth System Science Data</i> , 2020, 12, 2787-2810.	9.9	13
27	Investigation on the Use of Passive Microclimate Frames in View of the Climate Change Scenario. <i>Climate</i> , 2019, 7, 98.	2.8	12
28	A method based on environmental monitoring and building dynamic simulation to assess indoor climate control strategies in the preventive conservation within historical buildings. <i>Science and Technology for the Built Environment</i> , 2019, 25, 1253-1268.	1.7	11
29	Cluster analysis of microclimate data to optimize the number of sensors for the assessment of indoor environment within museums. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28787-28797.	5.3	12
30	Examination on total ozone column retrievals by Brewer spectrophotometry using different processing software. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5105-5123.	3.1	16
31	Review on Nonoccupational Personal Solar UV Exposure Measurements. <i>Photochemistry and Photobiology</i> , 2018, 94, 900-915.	2.5	33
32	Assessment of indoor climate of MogiÅa Abbey in KrakÅw (Poland) and the application of the analogues method to predict microclimate indoor conditions. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13895-13907.	5.3	27
33	UV Index monitoring in Europe. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1349-1370.	2.9	52
34	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 551-574.	4.9	18
35	CleAir Monitoring System for Particulate Matter: A Case in the Napoleonic Museum in Rome. <i>Sensors</i> , 2017, 17, 2076.	3.8	2
36	Assessment of the Minimum Sampling Frequency to Avoid Measurement Redundancy in Microclimate Field Surveys in Museum Buildings. <i>Sensors</i> , 2016, 16, 1291.	3.8	20

#	ARTICLE	IF	CITATIONS
37	Extreme UV index and solar exposures at Plateau Ros� (3500 m a.s.l.) in Valle d�Aosta Region, Italy. <i>Science of the Total Environment</i> , 2015, 512-513, 622-630.	8.0	26
38	Improved retrieval of nitrogen dioxide (NO <sub>2</sub> ) column densities by means of MKIV Brewer spectrophotometers. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4009-4022.	3.1	17
39	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. <i>Atmospheric Environment</i> , 2014, 85, 169-178.	4.1	28
40	Investigation on the capability of polysulphone for measuring biologically effective solar UV exposures. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 521-530.	2.9	20
41	The role of urban boundary layer investigated with high-resolution models and ground-based observations in Rome area: a step towards understanding parameterization potentialities. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 315-332.	3.1	23
42	Stucco panels of Room VI in the Galleria Borghese (Rome): Physical�chemical analysis and microclimate characterization. <i>Energy and Buildings</i> , 2013, 61, 133-139.	6.7	12
43	Solar ultraviolet irradiance measurements in Aosta (Italy): An analysis of short- and middle-term spectral variability. , 2013, , .		4
44	Biologically effective surface UV climatology at Rome and Aosta, Italy. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	6
45	Capability and limitations in measuring atmospheric nitrogen dioxide column amounts by means of the MKIV Brewer spectrophotometers. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
46	Applicability of the Polysulphone Horizontal Calibration to Differently Inclined Dosimeters. <i>Photochemistry and Photobiology</i> , 2012, 88, 207-214.	2.5	16
47	A Critical Assessment of Two Types of Personal UV Dosimeters. <i>Photochemistry and Photobiology</i> , 2012, 88, 215-222.	2.5	41
48	Occupational Exposures to Solar Ultraviolet Radiation of Vineyard Workers in Tuscany (Italy). <i>Photochemistry and Photobiology</i> , 2011, 87, 925-934.	2.5	59
49	First national intercomparison of solar ultraviolet radiometers in Italy. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1689-1703.	3.1	24
50	Quantitative evaluation of personal exposure to UV radiation of workers and general public. <i>Radiation Protection Dosimetry</i> , 2009, 137, 193-196.	0.8	6
51	Short�term UV Exposure of Sunbathers at a Mediterranean Sea Site. <i>Photochemistry and Photobiology</i> , 2009, 85, 171-177.	2.5	36
52	Variability of UV Irradiance in Europe. <i>Photochemistry and Photobiology</i> , 2008, 84, 172-179.	2.5	92
53	Atmospheric stagnation episodes and hospital admissions. <i>Public Health</i> , 2008, 122, 1128-1130.	2.9	7
54	Europe�s darker atmosphere in the UV-B. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 925-930.	2.9	30

#	ARTICLE	IF	CITATIONS
55	Visibility: An investigation based on a multivariate adaptive regression spline technique. <i>Meteorological Applications</i> , 2007, 3, 353-358.	2.1	4
56	Solar UV Dose Patterns in Italy. <i>Photochemistry and Photobiology</i> , 2007, 71, 681-690.	2.5	2
57	Surface UV radiation monitoring at two Italian Brewer stations (Rome and Ispra): a first comparison with OMI data. , 2006, ,		1
58	Tropical storm impact in Central America. <i>Meteorological Applications</i> , 2006, 13, 21.	2.1	12
59	A canopy layer model and its application to Rome. <i>Science of the Total Environment</i> , 2006, 364, 1-13.	8.0	61
60	Ozone column retrieval from solar UV measurements at ground level: Effects of clouds and results from six European sites. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	22
61	A simple device for the evaluation of the UV radiation index. <i>Meteorological Applications</i> , 2003, 10, 115-121.	2.1	1
62	Investigation on a low ozone episode at the end of November 2000 and its effect on ultraviolet radiation. <i>Optical Engineering</i> , 2002, 41, 3082.	1.0	19
63	Solar UV Dose Patterns in Italy. <i>Photochemistry and Photobiology</i> , 2000, 71, 681.	2.5	39
64	Toward optimizing Brewer zenith sky total ozone measurements at the Italian stations of Rome and Ispra. <i>Journal of Geophysical Research</i> , 1995, 100, 3017.	3.3	6