

# Antonio Serrano

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

1,379  
citations

393982

19  
h-index

360668

35  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trend analysis of monthly precipitation over the Iberian peninsula for the period 1921–1995. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 85-90.	0.3	192
2	Monthly Modes of Variation of Precipitation over the Iberian Peninsula. <i>Journal of Climate</i> , 1999, 12, 2894-2919.	1.2	152
3	Trends in Block-Seasonal Extreme Rainfall over the Iberian Peninsula in the Second Half of the Twentieth Century. <i>Journal of Climate</i> , 2007, 20, 113-130.	1.2	86
4	Validation of OMI–TOMS and OMI–DOAS total ozone column using five Brewer spectroradiometers at the Iberian peninsula. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	76
5	Near-real-time processing of a ceilometer network assisted with sun-photometer data: monitoring a dust outbreak over the Iberian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11861-11876.	1.9	57
6	UV Index monitoring in Europe. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1349-1370.	1.6	52
7	Comparison of GOME-2/MetOp total ozone data with Brewer spectroradiometer data over the Iberian Peninsula. <i>Annales Geophysicae</i> , 2009, 27, 1377-1386.	0.6	41
8	Comparison of UV irradiances from Aura/Ozone Monitoring Instrument (OMI) with Brewer measurements at El Arenosillo (Spain) – Part 1: Analysis of parameter influence. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5979-5989.	1.9	40
9	Aerosol radiative effects during two desert dust events in August 2012 over the Southwestern Iberian Peninsula. <i>Atmospheric Research</i> , 2015, 153, 404-415.	1.8	39
10	Interannual variability of cut-off low systems over the European sector: The role of blocking and the Northern Hemisphere circulation modes. <i>Meteorology and Atmospheric Physics</i> , 2007, 96, 85-101.	0.9	34
11	Global validation of empirically corrected EP–Total Ozone Mapping Spectrometer (TOMS) total ozone columns using Brewer and Dobson ground-based measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
12	Relationship between erythemal irradiance and total solar irradiance in South–Western Spain. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
13	Total ozone and solar erythemal irradiance in southwestern Spain: Day–to–day variability and extreme episodes. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	32
14	A spectral analysis of Iberian Peninsula monthly rainfall. <i>Theoretical and Applied Climatology</i> , 2002, 71, 77-95.	1.3	29
15	Temporal and spatial variabilities of total ozone column over Portugal. <i>Remote Sensing of Environment</i> , 2011, 115, 855-863.	4.6	28
16	Regional differences of column aerosol parameters in western Iberian Peninsula. <i>Atmospheric Environment</i> , 2012, 62, 208-219.	1.9	27
17	An empirical model to estimate ultraviolet erythemal transmissivity. <i>Annales Geophysicae</i> , 2009, 27, 1387-1398.	0.6	26
18	Daily and annual variations of erythemal ultraviolet radiation in Southwestern Spain. <i>Annales Geophysicae</i> , 2006, 24, 427-441.	0.6	23

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19	Ozone mini-hole over southwestern Spain during January 2004: Influence over ultraviolet radiation. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	21
20	Quality assessment of solar UV irradiance measured with array spectroradiometers. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1553-1567.	1.2	21
21	Diurnal variability of total ozone column over Madrid (Spain). <i>Atmospheric Environment</i> , 2010, 44, 2793-2798.	1.9	19
22	Impact of aerosol and water vapour on SW radiation at the surface: Sensitivity study and applications. <i>Atmospheric Research</i> , 2018, 213, 252-263.	1.8	19
23	Total ozone mapping spectrometer retrievals of noon erythemal-CIE ultraviolet irradiance compared with Brewer ground-based measurements at El Arenosillo (southwestern Spain). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
24	An Improved Outdoor Calibration Procedure for Broadband Ultraviolet Radiometers. <i>Photochemistry and Photobiology</i> , 2005, 81, 860.	1.3	18
25	Comparison of shadowing correction models for diffuse solar irradiance. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
26	Quality assurance of broadband erythemal radiometers at the Extremadura UV Monitoring Network (Southwestern Spain). <i>Atmospheric Research</i> , 2011, 100, 83-92.	1.8	13
27	Application of an analytical formula for UV Index reconstructions for two locations in Southwestern Spain. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 1052.	0.8	13
28	Pyranometer Thermal Offset: Measurement and Analysis. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 234-246.	0.5	13
29	Spatial and Temporal Variation of Aerosol and Water Vapour Effects on Solar Radiation in the Mediterranean Basin during the Last Two Decades. <i>Remote Sensing</i> , 2020, 12, 1316.	1.8	12
30	Correction of Angular Response Error in Brewer UV Irradiance Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 2018-2027.	0.5	11
31	Validation of libRadtran and SBDART models under different aerosol conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 28, 012010.	0.2	11
32	Detecting quasi-oscillations in the monthly precipitation regimes of the Iberian Peninsula. <i>Annales Geophysicae</i> , 2003, 21, 819-832.	0.6	11
33	The Empirically Corrected EP-TOMS Total Ozone Data Against Brewer Measurements at El Arenosillo (Southwestern Spain). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 3039-3045.	2.7	10
34	Aerosol radiometric properties at Western Spain (C�nceres station). <i>International Journal of Climatology</i> , 2015, 35, 981-990.	1.5	10
35	Global Spatial and Temporal Variation of the Combined Effect of Aerosol and Water Vapour on Solar Radiation. <i>Remote Sensing</i> , 2021, 13, 708.	1.8	10
36	Experimental and forecasted values of the ultraviolet index in southwestern Spain. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9

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37	Empirical Evaluation of a Simple Analytical Formula for the Ultraviolet Index. <i>Photochemistry and Photobiology</i> , 2011, 87, 478-482.	1.3	9
38	Total ozone column from direct and diffuse spectral solar irradiance in the southwest of the Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
39	Effect of water vapor in the SW and LW downward irradiance at the surface during a day with low aerosol load. <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 28, 012009.	0.2	7
40	Modeling the erythemal surface diffuse irradiance fraction for Badajoz, Spain. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12697-12708.	1.9	7
41	Performance of the FMI cosine error correction method for the Brewer spectral UV measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5167-5180.	1.2	7
42	Thirteen Years of Aerosol Radiative Forcing in Southwestern Iberian Peninsula. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2509-2521.	0.9	7
43	Cloud cover analysis associated to cut-off low-pressure systems over Europe using Meteosat Imagery. <i>Meteorology and Atmospheric Physics</i> , 2007, 96, 141-157.	0.9	6
44	Influence of the relative optical air mass on ultraviolet erythemal irradiance. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 2027-2031.	0.6	6
45	Correcting Daytime Thermal Offset in Unventilated Pyranometers. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 2088-2099.	0.5	6
46	Effect of cloudiness on solar global, solar diffuse and terrestrial downward radiation at Badajoz (Southwestern Spain). <i>Optica Pura Y Aplicada</i> , 2012, 45, 33-38.	0.0	6
47	A Comparative Study of Two Neural Models for Cloud Screening of Iberian Peninsula Meteosat Images. <i>Lecture Notes in Computer Science</i> , 2001, , 184-191.	1.0	5
48	Solar irradiance and total ozone over El Arenosillo (Spain) during the solar eclipse of 3 October 2005. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 789-793.	0.6	4
49	Global irradiance calibration of multifilter UV radiometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 427-438.	1.2	4
50	Adapting the Spencer model for diffuse solar radiation in Badajoz (Spain). <i>Optica Pura Y Aplicada</i> , 2012, 45, 5-9.	0.0	4
51	Solar Global Radiation and Sunshine Duration in Extremadura (Spain). <i>Physica Scripta</i> , 2005, , 24.	1.2	3
52	Shadowband correction for diffuse ultraviolet radiation measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3807-3816.	1.2	3
53	Development of a Low-Cost Device for Measuring Ultraviolet Solar Radiation. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	3
54	Comparison of global UV spectral irradiance measurements between a BTS CCD-array and a Brewer spectroradiometer. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 4125-4133.	1.2	3

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55	A Multiple Regression Analysis Between UV Radiation Measurements at Badajoz and Ozone, Reflectivity and Aerosols Estimated by TOMS. <i>Physica Scripta</i> , 2005, , 21.	1.2	2
56	Influence of the ozone profile above Madrid (Spain) on Brewer estimation of ozone air mass factor. <i>Annales Geophysicae</i> , 2009, 27, 3179-3183.	0.6	2
57	Effect of Mechanical Ventilation on the Thermal Offset of Pyranometers during Cloud-Free Summer Conditions. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 1155-1173.	0.5	2
58	Hourly global irradiance from satellite data in Badajoz, Spain: Spatial and temporal dependence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3650-3661.	1.2	1
59	Selection of suitable wavelengths for estimating total ozone column with multifilter UV radiometers. <i>Atmospheric Environment</i> , 2017, 160, 124-131.	1.9	1
60	Analysis of a low ozone episode over Extremadura (Spain) in January 2006 and its influence on UV radiation. <i>Advances in Science and Research</i> , 2008, 2, 17-20.	1.0	1
61	Validation of TOMS UV irradiance with Brewer ground-based measurements at southwestern Spain. , 2006, , .		0
62	A laboratory intercomparison of broadband radiometers used for solar erythemal irradiance measurements. , 2006, , .		0
63	Surface UV radiation in the South of Portugal: Monitoring and assessment of cloud effects. , 2013, , .		0
64	An intercomparison of the thermal offset for different pyranometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7901-7912.	1.2	0
65	Spectroradiometry in PV: how inter-laboratory comparison may improve measurement accuracy. , 2018, , .		0
66	Long-Term Global Irradiance Calibration of Multifilter UV Radiometers. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 2415-2427.	0.5	0
67	Measurements of total ozone amount over Badajoz (Southwestern Spain) by means of a GUV multiband radiometer. <i>Optica Pura Y Aplicada</i> , 2012, 45, 39-43.	0.0	0
68	Ultraviolet index estimated in Badajoz (Spain) using a multiband radiometer. <i>Optica Pura Y Aplicada</i> , 2012, 45, 23-27.	0.0	0