

Antonio Serrano

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,379
citations

394421
19
h-index

361022
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.	3.2	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.	3.2	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.	4.9	57
6	UV Index monitoring in Europe. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1349-1370.	2.9	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.	1.6	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.	4.9	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.	4.1	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.	2.0	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, .	4.0	32
14	A spectral analysis of Iberian Peninsula monthly rainfall. <i>Theoretical and Applied Climatology</i> , 2002, 71, 77-95.	2.8	29
15	Temporal and spatial variabilities of total ozone column over Portugal. <i>Remote Sensing of Environment</i> , 2011, 115, 855-863.	11.0	28
16	Regional differences of column aerosol parameters in western Iberian Peninsula. <i>Atmospheric Environment</i> , 2012, 62, 208-219.	4.1	27
17	An empirical model to estimate ultraviolet erythemal transmissivity. <i>Annales Geophysicae</i> , 2009, 27, 1387-1398.	1.6	26
18	Daily and annual variations of erythemal ultraviolet radiation in Southwestern Spain. <i>Annales Geophysicae</i> , 2006, 24, 427-441.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Ozone mini-hole over southwestern Spain during January 2004: Influence over ultraviolet radiation. Geophysical Research Letters, 2007, 34, .	4.0	21
20	Quality assessment of solar UV irradiance measured with array spectroradiometers. Atmospheric Measurement Techniques, 2016, 9, 1553-1567.	3.1	21
21	Diurnal variability of total ozone column over Madrid (Spain). Atmospheric Environment, 2010, 44, 2793-2798.	4.1	19
22	Impact of aerosol and water vapour on SW radiation at the surface: Sensitivity study and applications. Atmospheric Research, 2018, 213, 252-263.	4.1	19
23	Total ozone mapping spectrometer retrievals of noon erythema-CIE ultraviolet irradiance compared with Brewer ground-based measurements at El Arenosillo (southwestern Spain). Journal of Geophysical Research, 2007, 112, .	3.3	18
24	An Improved Outdoor Calibration Procedure for Broadband Ultraviolet Radiometers. Photochemistry and Photobiology, 2005, 81, 860.	2.5	18
25	Comparison of shadowing correction models for diffuse solar irradiance. Journal of Geophysical Research, 2012, 117, .	3.3	14
26	Quality assurance of broadband erythema radiometers at the Extremadura UV Monitoring Network (Southwestern Spain). Atmospheric Research, 2011, 100, 83-92.	4.1	13
27	Application of an analytical formula for UV Index reconstructions for two locations in Southwestern Spain. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 1052.	1.6	13
28	Pyranometer Thermal Offset: Measurement and Analysis. Journal of Atmospheric and Oceanic Technology, 2015, 32, 234-246.	1.3	13
29	Spatial and Temporal Variation of Aerosol and Water Vapour Effects on Solar Radiation in the Mediterranean Basin during the Last Two Decades. Remote Sensing, 2020, 12, 1316.	4.0	12
30	Correction of Angular Response Error in Brewer UV Irradiance Measurements. Journal of Atmospheric and Oceanic Technology, 2008, 25, 2018-2027.	1.3	11
31	Validation of libRadtran and SBDART models under different aerosol conditions. IOP Conference Series: Earth and Environmental Science, 2015, 28, 012010.	0.3	11
32	Detecting quasi-oscillations in the monthly precipitation regimes of the Iberian Peninsula. Annales Geophysicae, 2003, 21, 819-832.	1.6	11
33	The Empirically Corrected EP-TOMS Total Ozone Data Against Brewer Measurements at El Arenosillo (Southwestern Spain). IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3039-3045.	6.3	10
34	Aerosol radiometric properties at Western Spain (C��ceres station). International Journal of Climatology, 2015, 35, 981-990.	3.5	10
35	Global Spatial and Temporal Variation of the Combined Effect of Aerosol and Water Vapour on Solar Radiation. Remote Sensing, 2021, 13, 708.	4.0	10
36	Experimental and forecasted values of the ultraviolet index in southwestern Spain. Journal of Geophysical Research, 2009, 114, .	3.3	9

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37	Empirical Evaluation of a Simple Analytical Formula for the Ultraviolet Index. Photochemistry and Photobiology, 2011, 87, 478-482.	2.5	9
38	Total ozone column from direct and diffuse spectral solar irradiance in the southwest of the Iberian Peninsula. Journal of Geophysical Research, 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. IOP Conference Series: Earth and Environmental Science, 2015, 28, 012009.	0.3	7
40	Modeling the erythral surface diffuse irradiance fraction for Badajoz, Spain. Atmospheric Chemistry and Physics, 2017, 17, 12697-12708.	4.9	7
41	Performance of the FMI cosine error correction method for the Brewer spectral UV measurements. Atmospheric Measurement Techniques, 2018, 11, 5167-5180.	3.1	7
42	Thirteen Years of Aerosol Radiative Forcing in Southwestern Iberian Peninsula. Aerosol and Air Quality Research, 2017, 17, 2509-2521.	2.1	7
43	Cloud cover analysis associated to cut-off low-pressure systems over Europe using Meteosat Imagery. Meteorology and Atmospheric Physics, 2007, 96, 141-157.	2.0	6
44	Influence of the relative optical air mass on ultraviolet erythral irradiance. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 2027-2031.	1.6	6
45	Correcting Daytime Thermal Offset in Unventilated Pyranometers. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2088-2099.	1.3	6
46	Effect of cloudiness on solar global, solar diffuse and terrestrial downward radiation at Badajoz (Southwestern Spain). Optica Pura Y Aplicada, 2012, 45, 33-38.	0.1	6
47	A Comparative Study of Two Neural Models for Cloud Screening of Iberian Peninsula Meteosat Images. Lecture Notes in Computer Science, 2001, , 184-191.	1.3	5
48	Solar irradiance and total ozone over El Arenosillo (Spain) during the solar eclipse of 3 October 2005. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 789-793.	1.6	4
49	Global irradiance calibration of multifilter UV radiometers. Journal of Geophysical Research D: Atmospheres, 2016, 121, 427-438.	3.3	4
50	Adapting the Spencer model for diffuse solar radiation in Badajoz (Spain). Optica Pura Y Aplicada, 2012, 45, 5-9.	0.1	4
51	Solar Global Radiation and Sunshine Duration in Extremadura (Spain). Physica Scripta, 2005, , 24.	2.5	3
52	Shadowband correction for diffuse ultraviolet radiation measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3807-3816.	3.3	3
53	Development of a Low-Cost Device for Measuring Ultraviolet Solar Radiation. Frontiers in Environmental Science, 2022, 9, .	3.3	3
54	Comparison of global UV spectral irradiance measurements between a BTS CCD-array and a Brewer spectroradiometer. Atmospheric Measurement Techniques, 2022, 15, 4125-4133.	3.1	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.	2.5	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.	1.6	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.	1.3	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.	3.3	1
59	Selection of suitable wavelengths for estimating total ozone column with multifilter UV radiometers. <i>Atmospheric Environment</i> , 2017, 160, 124-131.	4.1	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 erythema 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.	3.3	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.	1.3	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.	0.1	0
68	Ultraviolet index estimated in Badajoz (Spain) using a multiband radiometer. <i>Optica Pura Y Aplicada</i> , 2012, 45, 23-27.	0.1	0