

# Manuel AntÃ³n

## List of Publications by Year in descending order

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109  
papers

2,018  
citations

218677

26  
h-index

345221

36  
g-index

120  
all docs

120  
docs citations

120  
times ranked

1730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol radiative forcing during African desert dust events (2005–2010) over Southeastern Spain. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10331-10351.	4.9	87
2	Aerosol scattering and absorption Angström exponents as indicators of dust and dust-free days over Granada (Spain). <i>Atmospheric Research</i> , 2015, 154, 1-13.	4.1	79
3	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
4	Classification of aerosol radiative properties during African desert dust intrusions over southeastern Spain by sector origins and cluster analysis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	74
5	Calibration of an all-sky camera for obtaining sky radiance at three wavelengths. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2013-2024.	3.1	51
6	Quantifying the respective roles of aerosols and clouds in the strong brightening since the early 2000s over the Iberian Peninsula. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,382.	3.3	48
7	Aerosol properties over two urban sites in South Spain during an extended stagnation episode in winter season. <i>Atmospheric Environment</i> , 2012, 62, 424-432.	4.1	47
8	Inter-comparison of integrated water vapor from satellite instruments using reference GPS data at the Iberian Peninsula. <i>Remote Sensing of Environment</i> , 2018, 204, 729-740.	11.0	45
9	Global and diffuse shortwave irradiance during a strong desert dust episode at Granada (Spain). <i>Atmospheric Research</i> , 2012, 118, 232-239.	4.1	44
10	Validation of MODIS integrated water vapor product against reference GPS data at the Iberian Peninsula. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 63, 214-221.	2.8	43
11	Validation of the MetOp-A total ozone data from GOME-2 and IASI using reference ground-based measurements at the Iberian Peninsula. <i>Remote Sensing of Environment</i> , 2011, 115, 1380-1386.	11.0	42
12	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
13	Aerosol radiative effects in the ultraviolet, visible, and near-infrared spectral ranges using long-term aerosol data series over the Iberian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13497-13514.	4.9	41
14	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
15	Long-term changes in the radiative effects of aerosols and clouds in a mid-latitude region (1985–2010). <i>Global and Planetary Change</i> , 2013, 111, 288-295.	3.5	39
16	Aerosol transport over the western Mediterranean basin: Evidence of the contribution of fine particles to desert dust plumes over Alborán Island. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 14,028.	3.3	36
17	Evaluation of enhancement events of total solar irradiance during cloudy conditions at Granada (Southeastern Spain). <i>Atmospheric Research</i> , 2014, 135-136, 1-7.	4.1	34
18	Global validation of empirically corrected EP-TOMS total ozone columns using Brewer and Dobson ground-based measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33

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19	Analysis of the columnar radiative properties retrieved during African desert dust events over Granada (2005–2010) using principal plane sky radiances and spheroids retrieval procedure. <i>Atmospheric Research</i> , 2012, 104-105, 292-301.	4.1	33
20	Relationship between erythemal irradiance and total solar irradiance in South-Western Spain. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
21	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
22	Evaluation of the desert dust effects on global, direct and diffuse spectral ultraviolet irradiance. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 19578.	1.6	32
23	Did anomalous atmospheric circulation favor the spread of COVID-19 in Europe?. <i>Environmental Research</i> , 2021, 194, 110626.	7.5	32
24	Tropospheric ozone variability over the Iberian Peninsula. <i>Atmospheric Environment</i> , 2011, 45, 174-182.	4.1	31
25	Evaluation of the aerosol forcing efficiency in the UV erythemal range at Granada, Spain. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
26	Comparison of UV irradiances from Aura/Ozone Monitoring Instrument (OMI) with Brewer measurements at El Arenosillo (Spain) – Part 2: Analysis of site aerosol influence. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11867-11880.	4.9	28
27	Temporal and spatial variabilities of total ozone column over Portugal. <i>Remote Sensing of Environment</i> , 2011, 115, 855-863.	11.0	28
28	Short-term variability of experimental ultraviolet and total solar irradiance in Southeastern Spain. <i>Atmospheric Environment</i> , 2011, 45, 4815-4821.	4.1	27
29	An empirical model to estimate ultraviolet erythemal transmissivity. <i>Annales Geophysicae</i> , 2009, 27, 1387-1398.	1.6	26
30	Estimating aerosol characteristics from solar irradiance measurements at an urban location in southeastern Spain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1845-1859.	3.3	26
31	Influence of cloud properties on satellite total ozone observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
32	Experimental and modeled UV erythemal irradiance under overcast conditions: the role of cloud optical depth. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11723-11732.	4.9	24
33	Review on the Role of GNSS Meteorology in Monitoring Water Vapor for Atmospheric Physics. <i>Remote Sensing</i> , 2021, 13, 2287.	4.0	24
34	Daily and annual variations of erythemal ultraviolet radiation in Southwestern Spain. <i>Annales Geophysicae</i> , 2006, 24, 427-441.	1.6	23
35	Short-wave radiative forcing at the surface for cloudy systems at a midlatitude site. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 21069.	1.6	23
36	Comparison of total water vapor column from GOME-2 on MetOp-A against ground-based GPS measurements at the Iberian Peninsula. <i>Science of the Total Environment</i> , 2015, 533, 317-328.	8.0	23

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37	Aerosol optical depth at ALOMAR Observatory (AndÅya, Norway) in summer 2002 and 2003. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 218-228.	1.6	22
38	Ozone mini-hole over southwestern Spain during January 2004: Influence over ultraviolet radiation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	21
39	Atmospheric Blocking Signatures in Total Ozone and Ozone Miniholes. <i>Journal of Climate</i> , 2010, 23, 3967-3983.	3.2	20
40	Comparison of GOME total ozone data with ground data from the Spanish Brewer spectroradiometers. <i>Annales Geophysicae</i> , 2008, 26, 401-412.	1.6	20
41	Diurnal variability of total ozone column over Madrid (Spain). <i>Atmospheric Environment</i> , 2010, 44, 2793-2798.	4.1	19
42	The controversial early brightening in the first half of 20th century: A contribution from pyrheliometer measurements in Madrid (Spain). <i>Global and Planetary Change</i> , 2014, 115, 71-75.	3.5	19
43	Longwave aerosol radiative effects during an extreme desert dust event in southeastern Spain. <i>Atmospheric Research</i> , 2014, 149, 18-23.	4.1	19
44	Validation of GOME-2/MetOp-A total water vapour column using reference radiosonde data from the GRUAN network. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1135-1145.	3.1	19
45	Water vapor radiative effects on short-wave radiation in Spain. <i>Atmospheric Research</i> , 2018, 205, 18-25.	4.1	19
46	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
47	Validation of integrated water vapor from OMI satellite instrument against reference GPS data at the Iberian Peninsula. <i>Science of the Total Environment</i> , 2017, 580, 857-864.	8.0	18
48	An Improved Outdoor Calibration Procedure for Broadband Ultraviolet Radiometers. <i>Photochemistry and Photobiology</i> , 2005, 81, 860.	2.5	18
49	Total ozone column derived from GOME and SCIAMACHY using KNMI retrieval algorithms: Validation against Brewer measurements at the Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	17
50	Shortwave radiative forcing due to long-term changes of total ozone column over the Iberian Peninsula. <i>Atmospheric Environment</i> , 2013, 81, 532-537.	4.1	15
51	Effects of an extreme desert dust event on the spectral ultraviolet irradiance at El Arenosillo (Spain). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
52	Efficiency of clouds on shortwave radiation using experimental data. <i>Applied Energy</i> , 2014, 113, 1216-1219.	10.1	14
53	Comparative measurements of total ozone amount and aerosol optical depth during a campaign at El Arenosillo, Huelva, Spain. <i>Annales Geophysicae</i> , 2005, 23, 3399-3406.	1.6	13
54	Quality assurance of broadband erythemal radiometers at the Extremadura UV Monitoring Network (Southwestern Spain). <i>Atmospheric Research</i> , 2011, 100, 83-92.	4.1	13

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55	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.	1.6	13
56	Influence of the calibration on experimental UV index at a midlatitude site, Granada (Spain). <i>Atmospheric Measurement Techniques</i> , 2011, 4, 499-507.	3.1	13
57	Multi-exposure adaptive threshold technique for cloud detection with sky imagers. <i>Solar Energy</i> , 2015, 114, 268-277.	6.1	13
58	Variability analysis of the reconstructed daily global solar radiation under all-sky and cloud-free conditions in Madrid during the period 1887–1950. <i>Atmospheric Research</i> , 2017, 191, 94-100.	4.1	13
59	Water vapor satellite products in the European Arctic: An inter-comparison against GNSS data. <i>Science of the Total Environment</i> , 2020, 741, 140335.	8.0	13
60	Long-term trends of total ozone column over the Iberian Peninsula for the period 1979–2008. <i>Atmospheric Environment</i> , 2011, 45, 6283-6290.	4.1	12
61	Correction of Angular Response Error in Brewer UV Irradiance Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 2018-2027.	1.3	11
62	Comparison of long-term solar radiation trends from CM SAF satellite products with ground-based data at the Iberian Peninsula for the period 1985–2015. <i>Atmospheric Research</i> , 2020, 236, 104839.	4.1	11
63	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.	6.3	10
64	Extreme ultraviolet index due to broken clouds at a midlatitude site, Granada (southeastern Spain). <i>Atmospheric Research</i> , 2012, 118, 10-14.	4.1	10
65	Experimental and forecasted values of the ultraviolet index in southwestern Spain. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9
66	Empirical Evaluation of a Simple Analytical Formula for the Ultraviolet Index. <i>Photochemistry and Photobiology</i> , 2011, 87, 478-482.	2.5	9
67	Influence of desert dust intrusions on ground-based and satellite-derived ultraviolet irradiance in southeastern Spain. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
68	Sensitivity of <math>\langle \text{UV} \rangle</math> Erythemal Radiation to Total Ozone Changes under Different Sky Conditions: Results for Granada, Spain. <i>Photochemistry and Photobiology</i> , 2016, 92, 215-219.	2.5	9
69	Comparison of integrated water vapor from GNSS and radiosounding at four GRUAN stations. <i>Science of the Total Environment</i> , 2019, 648, 1639-1648.	8.0	9
70	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
71	Black carbon radiative forcing derived from AERONET measurements and models over an urban location in the southeastern Iberian Peninsula. <i>Atmospheric Research</i> , 2017, 191, 44-56.	4.1	8
72	Re-evaluation of trends in atmospheric column transparency from pyrhelimeter measurements in Madrid (1910–1929). <i>Atmospheric Research</i> , 2019, 217, 165-171.	4.1	8

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73	Analysis of actinometric measurements under all-sky and cloud-free conditions in C&#xe1;ceres (Spain) for the period 1913&#x2013;1920. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1663597.	1.6	7
74	Evaluation of Water Vapor Radiative Effects Using GPS Data Series over Southwestern Europe. <i>Remote Sensing</i> , 2020, 12, 1307.	4.0	7
75	Influence of the relative optical air mass on ultraviolet erythema irradiance. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 2027-2031.	1.6	6
76	Relationship between solar activity and direct solar irradiance in Madrid (1910&#x2013;1929). <i>Atmospheric Research</i> , 2020, 235, 104766.	4.1	6
77	Sunshine duration data in San Fernando (South of Spain) during 1880s: The impact of Krakatoa volcanic eruption. <i>Geoscience Data Journal</i> , 2020, 7, 185-191.	4.4	6
78	A method to determine the ozone radiative forcing in the ultraviolet range from experimental data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1860-1873.	3.3	5
79	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.	1.6	4
80	Dynamical and temporal characterization of the total ozone column over Spain. <i>Climate Dynamics</i> , 2015, 44, 1871-1880.	3.8	4
81	Global irradiance calibration of multfilter UV radiometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 427-438.	3.3	4
82	Evaluation of extreme ozone events over the Iberian Peninsula from Brewer spectrophotometers in the 2000s. <i>Atmospheric Research</i> , 2016, 169, 248-254.	4.1	4
83	Early sunshine duration and cloud cover records in Coimbra (Portugal) for the period 1891&#x2013;1950. <i>International Journal of Climatology</i> , 2021, 41, 4977-4986.	3.5	4
84	Integrated water vapor over the Arctic: Comparison between radiosondes and sun photometer observations. <i>Atmospheric Research</i> , 2022, 270, 106059.	4.1	4
85	Solar Global Radiation and Sunshine Duration in Extremadura (Spain). <i>Physica Scripta</i> , 2005, , 24.	2.5	3
86	Influence of solar eclipse of November 3rd, 2013 on the total ozone column over Badajoz, Spain. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 112, 43-46.	1.6	3
87	Recovery of early meteorological records from Extremadura region (SW Iberia): The &#x201c;CliPastExtrem&#x201d; (v1.0) database. <i>Geoscience Data Journal</i> , 2022, 9, 207-220.	4.4	3
88	Worldwide Evaluation of Ozone Radiative Forcing in the UV-B Range between 1979 and 2014. <i>Remote Sensing</i> , 2020, 12, 436.	4.0	3
89	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
90	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

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91	Study of UV cloud modification factors in Southern Patagonia. AIP Conference Proceedings, 2017, , .	0.4	2
92	Influence of turbidity and clouds on satellite total ozone data over Madrid (Spain). Annales Geophysicae, 2010, 28, 1441-1448.	1.6	1
93	Direct-sun total ozone data from a spectroradiometer: methodology and comparison with satellite observations. Atmospheric Measurement Techniques, 2013, 6, 637-647.	3.1	1
94	Selection of suitable wavelengths for estimating total ozone column with multifilter UV radiometers. Atmospheric Environment, 2017, 160, 124-131.	4.1	1
95	Analysis of a low ozone episode over Extremadura (Spain) in January 2006 and its influence on UV radiation. Advances in Science and Research, 2008, 2, 17-20.	1.0	1
96	Ozone Seasonal Variation with Ground-Based and Satellite Equipments at Évora Observatory: Portugal During 2007-2010. Lecture Notes in Geoinformation and Cartography, 2013, , 137-146.	1.0	1
97	Comparison of CIMEL sun-photometer and ground-based GNSS integrated water vapor over south-western European sites. Atmospheric Research, 2022, 275, 106217.	4.1	1
98	Evaluation of Water Vapor Product from TROPOMI and GOME-2 Satellites against Ground-Based GNSS Data over Europe. Atmosphere, 2022, 13, 1079.	2.3	1
99	Validation of TOMS UV irradiance with Brewer ground-based measurements at southwestern Spain. , 2006, , .		0
100	A laboratory intercomparison of broadband radiometers used for solar erythemal irradiance measurements. , 2006, , .		0
101	Observations of tropospheric compounds at Evora station with multi-axis hyperspectral measurements. , 2009, , .		0
102	Ozone, nitrogen dioxide, and BrO total columns over Évora-Portugal during 2007-2008. Proceedings of SPIE, 2009, , .	0.8	0
103	Reply to discussion of "Tropospheric ozone variability over the Iberian Peninsula Atmospheric Environment" by Kulkarni et al. (2011). Atmospheric Environment, 2011, 45, 2600-2602.	4.1	0
104	Surface UV radiation in the South of Portugal: Monitoring and assessment of cloud effects. , 2013, , .		0
105	Study of cloud enhanced surface UV radiation at the atmospheric observatory of Southern Patagonia, Río Gallegos, Argentina. , 2013, , .		0
106	Fifteen years of stratospheric nitrogen dioxide and ozone measurements in Antarctica. , 2013, , .		0
107	Retrieval of the aerosol optical thickness from UV global irradiance measurements. IOP Conference Series: Earth and Environmental Science, 2015, 28, 012007.	0.3	0
108	Validation of Atmospheric Water Vapor from Several Satellite Instruments Using GPS Measurements at Spanish Stations Under Cloud-Free Conditions. , 2018, , .		0

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109	Editorial for the Special Issue "Remote Sensing of Atmospheric Components and Water Vapor" Remote Sensing, 2020, 12, 2074.	4.0	0