

Roberto RomÃ¡n

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,533
citations

279701

23
h-index

377752

34
g-index

101
all docs

101
docs citations

101
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	The new sun-sky-lunar Cimel CE318-T multiband photometer – a comprehensive performance evaluation. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 631-654.	1.2	86
2	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
3	Calibration of an all-sky camera for obtaining sky radiance at three wavelengths. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2013-2024.	1.2	51
4	Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code. <i>Atmospheric Research</i> , 2018, 204, 161-177.	1.8	50
5	Evolution of erythemal and total shortwave solar radiation in Valladolid, Spain: Effects of atmospheric factors. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 578-586.	0.6	46
6	Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMED 2013 campaign. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4439-4457.	1.2	46
7	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.	4.6	45
8	Extreme, wintertime Saharan dust intrusion in the Iberian Peninsula: Lidar monitoring and evaluation of dust forecast models during the February 2017 event. <i>Atmospheric Research</i> , 2019, 228, 223-241.	1.8	44
9	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.	1.4	43
10	Study of the planetary boundary layer by microwave radiometer, elastic lidar and Doppler lidar estimations in Southern Iberian Peninsula. <i>Atmospheric Research</i> , 2018, 213, 185-195.	1.8	41
11	Sensitivity analysis of ratio between ultraviolet and total shortwave solar radiation to cloudiness, ozone, aerosols and precipitable water. <i>Atmospheric Research</i> , 2011, 102, 136-144.	1.8	38
12	Total ozone column, water vapour and aerosol effects on erythemal and global solar irradiance in Marsaxlokk, Malta. <i>Atmospheric Environment</i> , 2014, 99, 508-518.	1.9	37
13	Remote sensing of lunar aureole with a sky camera: Adding information in the nocturnal retrieval of aerosol properties with GRASP code. <i>Remote Sensing of Environment</i> , 2017, 196, 238-252.	4.6	36
14	Long-term solar erythemal UV irradiance data reconstruction in Spain using a semiempirical method. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	35
15	Assessment of Sun photometer Langley calibration at the high-elevation sites Mauna Loa and Izaña. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14555-14567.	1.9	34
16	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.	0.8	32
17	Hygroscopic growth study in the framework of EARLINET during the SLOPE I campaign: synergy of remote sensing and in situ instrumentation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7001-7017.	1.9	32
18	Standard or local solar spectrum? Implications for solar technologies studies in the Atacama desert. <i>Renewable Energy</i> , 2018, 127, 871-882.	4.3	32

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19	Impact of mineral dust on shortwave and longwave radiation: evaluation of different vertically resolved parameterizations in 1-D radiative transfer computations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 523-542.	1.9	32
20	Uncertainty and variability in satellite-based water vapor column, aerosol optical depth and Angström exponent, and its effect on radiative transfer simulations in the Iberian Peninsula. <i>Atmospheric Environment</i> , 2014, 89, 556-569.	1.9	30
21	Ground/space, passive/active remote sensing observations coupled with particle dispersion modelling to understand the inter-continental transport of wildfire smoke plumes. <i>Remote Sensing of Environment</i> , 2019, 232, 111294.	4.6	30
22	Different strategies to retrieve aerosol properties at night-time with the GRASP algorithm. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14149-14171.	1.9	29
23	Retrieval of optical and microphysical properties of transported Saharan dust over Athens and Granada based on multi-wavelength Raman lidar measurements: Study of the mixing processes. <i>Atmospheric Environment</i> , 2019, 214, 116824.	1.9	28
24	Reconstruction of six decades of daily total solar shortwave irradiation in the Iberian Peninsula using sunshine duration records. <i>Atmospheric Environment</i> , 2014, 99, 41-50.	1.9	26
25	Turbidity coefficients from normal direct solar irradiance in Central Spain. <i>Atmospheric Research</i> , 2014, 143, 73-84.	1.8	25
26	Retrieval of aerosol properties from ceilometer and photometer measurements: long-term evaluation with in situ data and statistical analysis at Montsec (southern Pyrenees). <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3255-3267.	1.2	25
27	Validation of OMI satellite erythemal daily dose retrievals using ground-based measurements from fourteen stations. <i>Remote Sensing of Environment</i> , 2013, 128, 1-10.	4.6	23
28	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.	3.9	23
29	Cloud cover detection combining high dynamic range sky images and ceilometer measurements. <i>Atmospheric Research</i> , 2017, 196, 224-236.	1.8	22
30	New particle formation at urban and high-altitude remote sites in the south-eastern Iberian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14253-14271.	1.9	22
31	Analyzing the turbulent planetary boundary layer by remote sensing systems: the Doppler wind lidar, aerosol elastic lidar and microwave radiometer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1263-1280.	1.9	21
32	Measurements and attenuation of erythemal radiation in Central Spain. <i>International Journal of Climatology</i> , 2012, 32, 929-940.	1.5	20
33	Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign. <i>Atmospheric Environment</i> , 2019, 202, 190-211.	1.9	20
34	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.	1.2	19
35	Water vapor radiative effects on short-wave radiation in Spain. <i>Atmospheric Research</i> , 2018, 205, 18-25.	1.8	19
36	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.	3.9	18

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37	Assessment of nocturnal aerosol optical depth from lunar photometry at the Izaña high mountain observatory. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3007-3019.	1.2	18
38	Temporal and Spatial Variability in Surface Air Temperature and Diurnal Temperature Range in Spain over the Period 1950–2011. <i>Climate</i> , 2019, 7, 16.	1.2	17
39	Erythemat ultraviolet irradiation trends in the Iberian Peninsula from 1950 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 375-391.	1.9	16
40	Evaluation of retrieved aerosol extinction profiles using as reference the aerosol optical depth differences between various heights. <i>Atmospheric Research</i> , 2019, 230, 104625.	1.8	16
41	Seasonal analysis of the atmosphere during five years by using microwave radiometry over a mid-latitude site. <i>Atmospheric Research</i> , 2019, 218, 78-89.	1.8	16
42	Solar radiation simulations in the Iberian Peninsula: Accuracy and sensitivity to uncertainties in inputs of a radiative transfer model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 145, 95-109.	1.1	14
43	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.	1.8	13
44	Water vapor satellite products in the European Arctic: An inter-comparison against GNSS data. <i>Science of the Total Environment</i> , 2020, 741, 140335.	3.9	13
45	Overview of the SLOPE I and II campaigns: aerosol properties retrieved with lidar and sun-sky photometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9269-9287.	1.9	12
46	Correction of a lunar-irradiance model for aerosol optical depth retrieval and comparison with a star photometer. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6293-6310.	1.2	12
47	Daytime and nighttime aerosol optical depth implementation in CALIS. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 417-433.	0.6	12
48	Retrieval of aerosol properties using relative radiance measurements from an all-sky camera. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 407-433.	1.2	12
49	Precipitable water vapor over oceans from the Maritime Aerosol Network: Evaluation of global models and satellite products under clear sky conditions. <i>Atmospheric Research</i> , 2019, 215, 294-304.	1.8	10
50	Relative sky radiance from multi-exposure all-sky camera images. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2201-2217.	1.2	10
51	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
52	Uncertainty of different atmospheric ozone retrievals and its effect on temporal trends and radiative transfer simulations in the Iberian Peninsula. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4690-4708.	1.2	9
53	Comparison of integrated water vapor from GNSS and radiosounding at four GRUAN stations. <i>Science of the Total Environment</i> , 2019, 648, 1639-1648.	3.9	9
54	Ceilometer inversion method using water-vapor correction from co-located microwave radiometer for aerosol retrievals. <i>Atmospheric Research</i> , 2021, 250, 105379.	1.8	9

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55	Characterization of Stratospheric Smoke Particles over the Antarctica by Remote Sensing Instruments. <i>Remote Sensing</i> , 2020, 12, 3769.	1.8	8
56	Atmospheric effects on the ultraviolet erythemal and total shortwave solar radiation in Valladolid, Spain. <i>Optica Pura Y Aplicada</i> , 2012, 45, 17-21.	0.0	8
57	Analysis of Solar Direct Irradiance in Spain. <i>Energy Procedia</i> , 2014, 57, 1070-1076.	1.8	7
58	Global, diffuse, beam and ultraviolet solar irradiance recorded in Malta and atmospheric component influences under cloudless skies. <i>Solar Energy</i> , 2015, 121, 131-138.	2.9	7
59	Reconstruction of long-term direct solar irradiance data series using a model based on the Cloud Modification Factor. <i>Renewable Energy</i> , 2015, 77, 115-124.	4.3	6
60	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.	1.2	5
61	UV and global irradiance measurements and analysis during the Marsaxlokk (Malta) campaign. <i>Advances in Science and Research</i> , 2015, 12, 147-155.	1.0	5
62	Influence of cloudiness on erythemal solar irradiance in Marsaxlokk, Malta: Two case studies. <i>Solar Energy</i> , 2016, 136, 475-486.	2.9	4
63	Solar Radiation Climatology in Camagüey, Cuba (1981-2016). <i>Remote Sensing</i> , 2021, 13, 169.	1.8	4
64	Integrated water vapor over the Arctic: Comparison between radiosondes and sun photometer observations. <i>Atmospheric Research</i> , 2022, 270, 106059.	1.8	4
65	Integrated Aerosol Extinction Profiles from Ceilometer and Sunphotometer Combination against Sunphotometer Measurements at Various Heights. , 2018, , .		2
66	Cloud modulation of shortwave and ultraviolet solar irradiances at surface. <i>Optica Pura Y Aplicada</i> , 2012, 45, 29-32.	0.0	2
67	ORION software tool for the geometrical calibration of all-sky cameras. <i>PLoS ONE</i> , 2022, 17, e0265959.	1.1	2
68	Direct-sun total ozone data from a spectroradiometer: methodology and comparison with satellite observations. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 637-647.	1.2	1
69	Global, Diffuse, Direct, and Ultraviolet Solar Irradiance Recorded in Malta and Atmospheric Component Influences. <i>Energy Procedia</i> , 2014, 57, 1206-1210.	1.8	1
70	Retrieval of Cloud Optical Depth: Synergies between Whole Sky Imagers and Radiative Transfer Modeling. , 2021, , .		1
71	A 1-D Radiative Transfer Study of Mineral Dust During Charmex/Adrimed 2013 Campaign. , 2018, , .		0
72	Aerosol Optical Depth Characterization in Middle and Polar Latitudes. , 2018, , .		0

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73	Constraining lidar stand-alone retrievals with lunar photometry measurements. EPJ Web of Conferences, 2018, 176, 08018.	0.1	0