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List of Publications by Year
in descending order

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59 papers	3,405 citations	218677 26 h-index	175258 52 g-index
69 all docs	69 docs citations	69 times ranked	2540 citing authors

#	Article	IF	Citations
1	Characterization of Saharan dust, marine aerosols and mixtures of biomass-burning aerosols and dust by means of multi-wavelength depolarization and Raman lidar measurements during SAMUM 2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 706.	1.6	225
2	Modelling lidar-relevant optical properties of complex mineral dust aerosols. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 725.	1.6	117
3	In situ aerosol characterization at Cape Verde: Part 2: Parametrization of relative humidity- and wavelength-dependent aerosol optical properties. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 549.	1.6	7
4	Optical properties of aerosol mixtures derived from sun-sky radiometry during SAMUM-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 635.	1.6	58
5	Thermal IR radiative properties of mixed mineral dust and biomass aerosol during SAMUM-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 751.	1.6	16
6	Wintertime Saharan dust transport towards the Caribbean: an airborne lidar case study during EUREC⁴A. Atmospheric Chemistry and Physics, 2022, 22, 7319-7330.	4.9	5
7	Retrievals of ice microphysical properties using dual-wavelength polarimetric radar observations during stratiform precipitation events. Atmospheric Measurement Techniques, 2022, 15, 3969-3999.	3.1	4
8	Why we need radar, lidar, and solar radiance observations to constrain ice cloud microphysics. Atmospheric Measurement Techniques, 2021, 14, 5029-5047.	3.1	9
9	Turbulence Analysis in Longâ€Rangeâ€Transported Saharan Dust Layers With Airborne Lidar. Geophysical Research Letters, 2021, 48, e2021GL094418.	4.0	3
10	Changes in cirrus cloud properties and occurrence over Europe during the COVID-19-caused air traffic reduction. Atmospheric Chemistry and Physics, 2021, 21, 14573-14590.	4.9	9
11	EUREC⁴A's <i>HALO</i>. Earth System Science Data, 2021, 13, 5545-5563.	9.9	24
12	Deployment of the C-band radar Poldirad on Barbados during EUREC⁴A. Earth System Science Data, 2021, 13, 5899-5914.	9.9	3
13	Radiative effects of long-range-transported Saharan air layers as determined from airborne lidar measurements. Atmospheric Chemistry and Physics, 2020, 20, 12313-12327.	4.9	10
14	Is the near-spherical shape the â€œnew blackâ€•for smoke?. Atmospheric Chemistry and Physics, 2020, 20, 14005-14021.	4.9	16
15	EARLINET observations of Saharan dust intrusions over the northern Mediterranean region (2014â€“2017): properties and impact on radiative forcing. Atmospheric Chemistry and Physics, 2020, 20, 15147-15166.	4.9	27
16	Modelling mineral dust emissions and atmospheric dispersion with MADE3 in EMAC v2.54. Geoscientific Model Development, 2020, 13, 4287-4303.	3.6	10
17	Retrieval of ice-nucleating particle concentrations from lidar observations and comparison with UAV in situ measurements. Atmospheric Chemistry and Physics, 2019, 19, 11315-11342.	4.9	53
18	Cloud macro-physical properties in Saharan-dust-laden and dust-free North Atlantic trade wind regimes: a lidar case study. Atmospheric Chemistry and Physics, 2019, 19, 10659-10673.	4.9	18

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19	Calibration of a 35â€‰GHz airborne cloud radar: lessons learned and intercomparisons with 94â€‰GHz cloud radars. Atmospheric Measurement Techniques, 2019, 12, 1815-1839.	3.1	29
20	Evolution of DARDAR-CLOUD ice cloud retrievals: new parameters and impacts on the retrieved microphysical properties. Atmospheric Measurement Techniques, 2019, 12, 2819-2835.	3.1	31
21	Sun photometer retrievals of Saharan dust properties over Barbados during SALTRACE. Atmospheric Chemistry and Physics, 2019, 19, 14571-14583.	4.9	12
22	Impacts of Water Vapor on Saharan Air Layer Radiative Heating. Geophysical Research Letters, 2019, 46, 14854-14862.	4.0	15
23	High Depolarization Ratios of Naturally Occurring Cirrus Clouds Near Air Traffic Regions Over Europe. Geophysical Research Letters, 2018, 45, 13,166.	4.0	16
24	Classifying stages of cirrus life-cycle evolution. EPJ Web of Conferences, 2018, 176, 05021.	0.3	0
25	The North Atlantic Waveguide and Downstream Impact Experiment. Bulletin of the American Meteorological Society, 2018, 99, 1607-1637.	3.3	105
26	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. Bulletin of the American Meteorological Society, 2017, 98, 271-288.	3.3	107
27	The Saharan Aerosol Long-Range Transport and Aerosolâ€“Cloud-Interaction Experiment: Overview and Selected Highlights. Bulletin of the American Meteorological Society, 2017, 98, 1427-1451.	3.3	173
28	Triple-wavelength depolarization-ratio profiling of Saharan dust over Barbados during SALTRACE in 2013 and 2014. Atmospheric Chemistry and Physics, 2017, 17, 10767-10794.	4.9	80
29	Particle settling and vertical mixing in the Saharan Air Layer as seen from an integrated model, lidar, and in situ perspective. Atmospheric Chemistry and Physics, 2017, 17, 297-311.	4.9	53
30	Airborne Lidar Observations of Water Vapor Variability in Tropical Shallow Convective Environment. Surveys in Geophysics, 2017, 38, 1425-1443.	4.6	9
31	Airborne Lidar Observations of Water Vapor Variability in Tropical Shallow Convective Environment. Space Sciences Series of ISSI, 2017, , 253-271.	0.0	3
32	Determining stages of cirrus evolution: a cloud classification scheme. Atmospheric Measurement Techniques, 2017, 10, 1653-1664.	3.1	13
33	Aerosol Backscatter and Extinction Retrieval from Airborne Coherent Doppler Wind Lidar Measurements. EPJ Web of Conferences, 2016, 119, 23001.	0.3	0
34	Case Study on Combined Lidar-Photometer Retrieval of Volcanic ASH Properties. EPJ Web of Conferences, 2016, 119, 07004.	0.3	0
35	EARLINET instrument intercomparison campaigns: overview on strategy and results. Atmospheric Measurement Techniques, 2016, 9, 1001-1023.	3.1	58
36	Saharan dust contribution to the Caribbean summertime boundary layer â€“ a lidar study during SALTRACE. Atmospheric Chemistry and Physics, 2016, 16, 11535-11546.	4.9	27

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37	Measurement of the Linear Depolarization Ratio of Aged Dust at Three Wavelengths (355, 532 and 1064) Tj ETQq1 1 0.784314 rgBT	0.3	18
38	Accuracy of Linear Depolarisation Ratios in Clean Air Ranges Measured with POLIS-6 at 355 and 532 NM. EPJ Web of Conferences, 2016, 119, 25013.	0.3	12
39	Towards an aerosol classification scheme for future <scp>EarthCARE</scp> lidar observations and implications for research needs. Atmospheric Science Letters, 2015, 16, 77-82.	1.9	53
40	Optical properties of long-range transported Saharan dust over Barbados as measured by dual-wavelength depolarization Raman lidar measurements. Atmospheric Chemistry and Physics, 2015, 15, 11067-11080.	4.9	123
41	Retrieval of aerosol backscatter and extinction from airborne coherent Doppler wind lidar measurements. Atmospheric Measurement Techniques, 2015, 8, 2909-2926.	3.1	40
42	Potential of airborne lidar measurements for cirrus cloud studies. Atmospheric Measurement Techniques, 2014, 7, 2745-2755.	3.1	29
43	Aerosol classification by airborne high spectral resolution lidar observations. Atmospheric Chemistry and Physics, 2013, 13, 2487-2505.	4.9	209
44	Airborne high spectral resolution lidar observation of pollution aerosol during EUCAARI-LONGREX. Atmospheric Chemistry and Physics, 2013, 13, 2435-2444.	4.9	22
45	Four-dimensional distribution of the 2010 EyjafjallajÃ¶kull volcanic cloud over Europe observed by EARLINET. Atmospheric Chemistry and Physics, 2013, 13, 4429-4450.	4.9	95
46	Characterization of the EyjafjallajÃ¶kull ash-plume: Potential of lidar remote sensing. Physics and Chemistry of the Earth, 2012, 45-46, 79-86.	2.9	59
47	Aerosol Classification by Advanced Backscatter Lidar Techniques. Research Topics in Aerospace, 2012, , 477-486.	0.7	1
48	Dual-wavelength linear depolarization ratio of volcanic aerosols: Lidar measurements of the EyjafjallajÃ¶kull plume over Maisach, Germany. Atmospheric Environment, 2012, 48, 85-96.	4.1	86
49	Lidar ratio of Saharan dust over Cape Verde Islands: Assessment and error calculation. Journal of Geophysical Research, 2011, 116, .	3.3	17
50	Ash and fine-mode particle mass profiles from EARLINET-AERONET observations over central Europe after the eruptions of the EyjafjallajÃ¶kull volcano in 2010. Journal of Geophysical Research, 2011, 116, .	3.3	165
51	Ice formation in ash-influenced clouds after the eruption of the EyjafjallajÃ¶kull volcano in April 2010. Journal of Geophysical Research, 2011, 116, .	3.3	57
52	The May/June 2008 Saharan dust event over Munich: Intensive aerosol parameters from lidar measurements. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	48
53	Volcanic ash from Iceland over Munich: mass concentration retrieved from ground-based remote sensing measurements. Atmospheric Chemistry and Physics, 2011, 11, 2209-2223.	4.9	170
54	Airborne observations of the Eyjafjalla volcano ash cloud over Europe during air space closure in April and May 2010. Atmospheric Chemistry and Physics, 2011, 11, 2245-2279.	4.9	273

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55	Characterization of the planetary boundary layer during SAMUM-2 by means of lidar measurements. Tellus, Series B: Chemical and Physical Meteorology, 2011, 63, 695-705.	1.6	28
56	Characterization of the EyjafjallajÃ¶kull ash-plume by means of lidar measurements over the Munich EARLINET-site. , 2010, , .		11
57	The 16 April 2010 major volcanic ash plume over central Europe: EARLINET lidar and AERONET photometer observations at Leipzig and Munich, Germany. Geophysical Research Letters, 2010, 37, .	4.0	202
58	Vertically resolved separation of dust and smoke over Cape Verde using multiwavelength Raman and polarization lidars during Saharan Mineral Dust Experiment 2008. Journal of Geophysical Research, 2009, 114, .	3.3	292
59	Accuracy assessment of an integrated profiling technique for operationally deriving profiles of temperature, humidity, and cloud liquid water. Journal of Geophysical Research, 2007, 112, .	3.3	17