

Silke GroÃ

List of Publications by Year in descending order

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Version: 2024-02-01

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	Vertically resolved separation of dust and smoke over Cape Verde using multiwavelength Raman and polarization lidars during Saharan Mineral Dust Experiment 2008. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	292
2	Airborne observations of the Eyjafjalla volcano ash cloud over Europe during air space closure in April and May 2010. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2245-2279.	4.9	273
3	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. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 706.	1.6	225
4	Aerosol classification by airborne high spectral resolution lidar observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2487-2505.	4.9	209
5	The 16 April 2010 major volcanic ash plume over central Europe: EARLINET lidar and AERONET photometer observations at Leipzig and Munich, Germany. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	202
6	The Saharan Aerosol Long-Range Transport and Aerosol-Cloud-Interaction Experiment: Overview and Selected Highlights. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1427-1451.	3.3	173
7	Volcanic ash from Iceland over Munich: mass concentration retrieved from ground-based remote sensing measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2209-2223.	4.9	170
8	Ash and fine-mode particle mass profiles from EARLINET-AERONET observations over central Europe after the eruptions of the Eyjafjallajökull volcano in 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	165
9	Optical properties of long-range transported Saharan dust over Barbados as measured by dual-wavelength depolarization Raman lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11067-11080.	4.9	123
10	Modelling lidar-relevant optical properties of complex mineral dust aerosols. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 725.	1.6	117
11	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 271-288.	3.3	107
12	The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1607-1637.	3.3	105
13	Four-dimensional distribution of the 2010 Eyjafjallajökull volcanic cloud over Europe observed by EARLINET. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4429-4450.	4.9	95
14	Dual-wavelength linear depolarization ratio of volcanic aerosols: Lidar measurements of the Eyjafjallajökull plume over Maisach, Germany. <i>Atmospheric Environment</i> , 2012, 48, 85-96.	4.1	86
15	Triple-wavelength depolarization-ratio profiling of Saharan dust over Barbados during SALTRACE in 2013 and 2014. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10767-10794.	4.9	80
16	Characterization of the Eyjafjallajökull ash-plume: Potential of lidar remote sensing. <i>Physics and Chemistry of the Earth</i> , 2012, 45-46, 79-86.	2.9	59
17	Optical properties of aerosol mixtures derived from sun-sky radiometry during SAMUM-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 635.	1.6	58
18	EARLINET instrument intercomparison campaigns: overview on strategy and results. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1001-1023.	3.1	58

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19	Ice formation in ash-influenced clouds after the eruption of the Eyjafjallaj�kull volcano in April 2010. Journal of Geophysical Research, 2011, 116, .	3.3	57
20	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
21	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
22	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
23	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
24	Retrieval of aerosol backscatter and extinction from airborne coherent Doppler wind lidar measurements. Atmospheric Measurement Techniques, 2015, 8, 2909-2926.	3.1	40
25	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
26	Potential of airborne lidar measurements for cirrus cloud studies. Atmospheric Measurement Techniques, 2014, 7, 2745-2755.	3.1	29
27	Calibration of a 35�GHz airborne cloud radar: lessons learned and intercomparisons with 94�GHz cloud radars. Atmospheric Measurement Techniques, 2019, 12, 1815-1839.	3.1	29
28	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
29	Saharan dust contribution to the Caribbean summertime boundary layer � a lidar study during SALTRACE. Atmospheric Chemistry and Physics, 2016, 16, 11535-11546.	4.9	27
30	EARLINET observations of Saharan dust intrusions over the northern Mediterranean region (2014�2017): properties and impact on radiative forcing. Atmospheric Chemistry and Physics, 2020, 20, 15147-15166.	4.9	27
31	EUREC<sup>4</sup</sup>A's <i>HALO</i>. Earth System Science Data, 2021, 13, 5545-5563.	9.9	24
32	Airborne high spectral resolution lidar observation of pollution aerosol during EUCAARI-LONGREX. Atmospheric Chemistry and Physics, 2013, 13, 2435-2444.	4.9	22
33	Measurement of the Linear Depolarization Ratio of Aged Dust at Three Wavelengths (355, 532 and 1064) Tj ETQq1,1 0.784314 rgBT 10 0,3 18	1.1	18
34	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
35	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
36	Lidar ratio of Saharan dust over Cape Verde Islands: Assessment and error calculation. Journal of Geophysical Research, 2011, 116, .	3.3	17

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37	Thermal IR radiative properties of mixed mineral dust and biomass aerosol during SAMUM-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 751.	1.6	16
38	High Depolarization Ratios of Naturally Occurring Cirrus Clouds Near Air Traffic Regions Over Europe. <i>Geophysical Research Letters</i> , 2018, 45, 13,166.	4.0	16
39	Is the near-spherical shape the "new black" for smoke?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14005-14021.	4.9	16
40	Impacts of Water Vapor on Saharan Air Layer Radiative Heating. <i>Geophysical Research Letters</i> , 2019, 46, 14854-14862.	4.0	15
41	Determining stages of cirrus evolution: a cloud classification scheme. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1653-1664.	3.1	13
42	Accuracy of Linear Depolarisation Ratios in Clean Air Ranges Measured with POLIS-6 at 355 and 532 NM. <i>EPJ Web of Conferences</i> , 2016, 119, 25013.	0.3	12
43	Sun photometer retrievals of Saharan dust properties over Barbados during SALTRACE. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14571-14583.	4.9	12
44	Characterization of the Eyjafjallajökull ash-plume by means of lidar measurements over the Munich EARLINET-site. , 2010, , .		11
45	Radiative effects of long-range-transported Saharan air layers as determined from airborne lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12313-12327.	4.9	10
46	Modelling mineral dust emissions and atmospheric dispersion with MADE3 in EMAC v2.54. <i>Geoscientific Model Development</i> , 2020, 13, 4287-4303.	3.6	10
47	Airborne Lidar Observations of Water Vapor Variability in Tropical Shallow Convective Environment. <i>Surveys in Geophysics</i> , 2017, 38, 1425-1443.	4.6	9
48	Why we need radar, lidar, and solar radiance observations to constrain ice cloud microphysics. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5029-5047.	3.1	9
49	Changes in cirrus cloud properties and occurrence over Europe during the COVID-19-caused air traffic reduction. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14573-14590.	4.9	9
50	In situ aerosol characterization at Cape Verde: Part 2: Parametrization of relative humidity- and wavelength-dependent aerosol optical properties. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 549.	1.6	7
51	Wintertime Saharan dust transport towards the Caribbean: an airborne lidar case study during EUREC4A. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7319-7330.	4.9	5
52	Retrievals of ice microphysical properties using dual-wavelength polarimetric radar observations during stratiform precipitation events. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3969-3999.	3.1	4
53	Turbulence Analysis in Long-Range-Transported Saharan Dust Layers With Airborne Lidar. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094418.	4.0	3
54	Airborne Lidar Observations of Water Vapor Variability in Tropical Shallow Convective Environment. <i>Space Sciences Series of ISSI</i> , 2017, , 253-271.	0.0	3

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55	Deployment of the C-band radar Poldirad on Barbados during EUREC<sup>4</sup>A. Earth System Science Data, 2021, 13, 5899-5914.	9.9	3
56	Aerosol Classification by Advanced Backscatter Lidar Techniques. Research Topics in Aerospace, 2012, , 477-486.	0.7	1
57	Aerosol Backscatter and Extinction Retrieval from Airborne Coherent Doppler Wind Lidar Measurements. EPJ Web of Conferences, 2016, 119, 23001.	0.3	0
58	Case Study on Combined Lidar-Photometer Retrieval of Volcanic ASH Properties. EPJ Web of Conferences, 2016, 119, 07004.	0.3	0
59	Classifying stages of cirrus life-cycle evolution. EPJ Web of Conferences, 2018, 176, 05021.	0.3	0