

Markus Fiebig

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

5,619
citations

109321

35
h-index

161849

54
g-index

83
all docs

83
docs citations

83
times ranked

6283
citing authors

#	ARTICLE	IF	CITATIONS
1	Desert dust aerosol air mass mapping in the western Sahara, using particle properties derived from space-based multi-angle imaging. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 239.	1.6	57
2	Saharan dust absorption and refractive index from aircraft-based observations during SAMUM 2006. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 118.	1.6	156
3	Airborne measurements of dust layer properties, particle size distribution and mixing state of Saharan dust during SAMUM 2006. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 96.	1.6	175
4	The IAGOS-CORE aerosol package: instrument design, operation and performance for continuous measurement aboard in-service aircraft. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 28339.	1.6	21
5	Atmospheric composition in the European Arctic and 30 years of the Zeppelin Observatory, Ny-Ålesund. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3321-3369.	4.9	24
6	Changes in black carbon emissions over Europe due to COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2675-2692.	4.9	40
7	Quantification of Element Mass Concentrations in Ambient Aerosols by Combination of Cascade Impactor Sampling and Mobile Total Reflection X-ray Fluorescence Spectroscopy. <i>Atmosphere</i> , 2021, 12, 309.	2.3	7
8	Trends, composition, and sources of carbonaceous aerosol at the Birkenes Observatory, northern Europe, 2001–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7149-7170.	4.9	12
9	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17185-17223.	4.9	31
10	Multidecadal trend analysis of in situ aerosol radiative properties around the world. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8867-8908.	4.9	58
11	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4353-4392.	3.1	65
12	European aerosol phenomenology – 6: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7877-7911.	4.9	76
13	Seasonality of aerosol optical properties in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11599-11622.	4.9	80
14	Curating Scientific Information in Knowledge Infrastructures. <i>Data Science Journal</i> , 2018, 17, .	1.3	7
15	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. <i>Scientific Data</i> , 2017, 4, 170003.	5.3	44
16	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. <i>Elementa</i> , 2017, 5, .	3.2	172
17	On Aethalometer measurement uncertainties and an instrument correction factor for the Arctic. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 5039-5062.	3.1	70
18	A European aerosol phenomenology-5: Climatology of black carbon optical properties at 9 regional background sites across Europe. <i>Atmospheric Environment</i> , 2016, 145, 346-364.	4.1	132

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19	Long-term observations of tropospheric particle number size distributions and equivalent black carbon mass concentrations in the German Ultrafine Aerosol Network (GUAN). <i>Earth System Science Data</i> , 2016, 8, 355-382.	9.9	63
20	Quantifying black carbon from biomass burning by means of levoglucosan – a one-year time series at the Arctic observatory Zeppelin. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6427-6442.	4.9	71
21	Annual cycle of Antarctic baseline aerosol: controlled by photooxidation-limited aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3083-3093.	4.9	20
22	Variations in tropospheric submicron particle size distributions across the European continent 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4327-4348.	4.9	41
23	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4679-4713.	4.9	148
24	Recommendations for reporting ‘black carbon’ measurements. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8365-8379.	4.9	808
25	Aerosol decadal trends – Part 1: In-situ optical measurements at GAW and IMPROVE stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 869-894.	4.9	126
26	The influence of cruise ship emissions on air pollution in Svalbard – a harbinger of a more polluted Arctic?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8401-8409.	4.9	94
27	Light-absorbing carbon in Europe – measurement and modelling, with a focus on residential wood combustion emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8719-8738.	4.9	51
28	Aerosol decadal trends – Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 895-916.	4.9	78
29	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 657-685.	3.1	689
30	Introduction to the European Monitoring and Evaluation Programme (EMEP) and observed atmospheric composition change during 1972–2009. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5447-5481.	4.9	527
31	Number size distributions and seasonality of submicron particles in Europe 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5505-5538.	4.9	214
32	Atmospheric monitoring at the Norwegian Antarctic station Troll: measurement programme and first results. <i>Polar Research</i> , 2009, 28, 353-363.	1.6	23
33	Tracing biomass burning aerosol from South America to Troll Research Station, Antarctica. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	51
34	On optical and microphysical characteristics of contrails and cirrus. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	53
35	Processes influencing ozone levels in Alaskan forest fire plumes during long-range transport over the North Atlantic. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	182
36	Comparison of methods for deriving aerosol asymmetry parameter. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	220

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37	Retrieval and climatology of the aerosol asymmetry parameter in the NOAA aerosol monitoring network. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	30
38	Measurement of ultrafine aerosol size distributions by a combination of diffusion screen separators and condensation particle counters. <i>Journal of Aerosol Science</i> , 2006, 37, 577-597.	3.8	40
39	Aircraft-based operation of an aerosol mass spectrometer: Measurements of tropospheric aerosol composition. <i>Journal of Aerosol Science</i> , 2006, 37, 839-857.	3.8	30
40	Particle emissions from aircraft engines a survey of the European project PartEmis. <i>Meteorologische Zeitschrift</i> , 2005, 14, 465-476.	1.0	38
41	Inversion of data containing information on the aerosol particle size distribution using multiple instruments. <i>Journal of Aerosol Science</i> , 2005, 36, 1353-1372.	3.8	42
42	Ground-based measured and calculated spectra of actinic flux density and downward UV irradiance in cloudless conditions and their sensitivity to aerosol microphysical properties. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	7
43	Comment on "Control of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warming" by M. Z. Jacobson. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	29
44	Correction to "Optical closure for an aerosol column: Method, accuracy, and inferable properties applied to a biomass-burning aerosol and its radiative forcing" by M. Fiebig, A. Petzold, U. Wandinger, M. Wendisch, C. Kiemle, A. Stifter, M. Ebert, T. Rother, and U. Leiterer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	0
45	Vertical variability of aerosol properties observed at a continental site during the Lindenberg Aerosol Characterization Experiment (LACE 98). <i>Journal of Geophysical Research</i> , 2002, 107, LAC 10-1-LAC 10-18.	3.3	61
46	Airborne Lidar and in-situ Aerosol Observations of an Elevated Layer, Leeward of the European Alps and Apennines. <i>Geophysical Research Letters</i> , 2002, 29, 33-1-33-4.	4.0	30
47	Optical closure for an aerosol column: Method, accuracy, and inferable properties applied to a biomass-burning aerosol and its radiative forcing. <i>Journal of Geophysical Research</i> , 2002, 107, LAC 12-1-LAC 12-15.	3.3	85
48	Aerosol states in the free troposphere at northern midlatitudes. <i>Journal of Geophysical Research</i> , 2002, 107, LAC 8-1-LAC 8-8.	3.3	59
49	Optical and microphysical characterization of biomass-burning and industrial-pollution aerosols from multiwavelength lidar and aircraft measurements. <i>Journal of Geophysical Research</i> , 2002, 107, LAC 7-1-LAC 7-20.	3.3	169
50	Aerosol-radiation interaction in the cloudless atmosphere during LACE 98 1. Measured and calculated broadband solar and spectral surface insulations. <i>Journal of Geophysical Research</i> , 2002, 107, LAC 6-1-LAC 6-20.	3.3	18
51	Aerosol-radiation interaction in the cloudless atmosphere during LACE 98 2. Aerosol-induced solar irradiance changes determined from airborne pyranometer measurements and calculations. <i>Journal of Geophysical Research</i> , 2002, 107, LAC 12-1-LAC 12-15.	3.3	12
52	Comprehensive particle characterization from three-wavelength Raman-lidar observations: case study. <i>Applied Optics</i> , 2001, 40, 4863.	2.1	88
53	In situ studies on volatile jet exhaust particle emissions: Impact of fuel sulfur content and environmental conditions on nuclei mode aerosols. <i>Journal of Geophysical Research</i> , 2000, 105, 19941-19954.	3.3	37
54	Ultrafine particle size distributions measured in aircraft exhaust plumes. <i>Journal of Geophysical Research</i> , 2000, 105, 26555-26567.	3.3	122