Markus Fiebig

List of Publications by Year
in descending order

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54	5,619	109321	161849
papers	citations	35 h-index	54 g-index

83	83	83	6283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recommendations for reporting "black carbon" measurements. Atmospheric Chemistry and Physics, 2013, 13, 8365-8379.	4.9	808
2	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. Atmospheric Measurement Techniques, 2012, 5, 657-685.	3.1	689
3	Introduction to the European Monitoring and Evaluation Programme (EMEP) and observed atmospheric composition change during 1972â€“2009. Atmospheric Chemistry and Physics, 2012, 12, 5447-5481.	4.9	527
4	Comparison of methods for deriving aerosol asymmetry parameter. Journal of Geophysical Research, 2006, 111, .	3.3	220
5	Number size distributions and seasonality of submicron particles in Europe 2008â€“2009. Atmospheric Chemistry and Physics, 2011, 11, 5505-5538.	4.9	214
6	Processes influencing ozone levels in Alaskan forest fire plumes during long-range transport over the North Atlantic. Journal of Geophysical Research, 2007, 112, .	3.3	182
7	Airborne measurements of dust layer properties, particle size distribution and mixing state of Saharan dust during SAMUM 2006. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 96.	1.6	175
8	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	3.2	172
9	Optical and microphysical characterization of biomass- burning and industrial-pollution aerosols from- multiwavelength lidar and aircraft measurements. Journal of Geophysical Research, 2002, 107, LAC 7-1-LAC 7-20.	3.3	169
10	Saharan dust absorption and refractive index from aircraft-based observations during SAMUM 2006. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 118.	1.6	156
11	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713.	4.9	148
12	A European aerosol phenomenology-5: Climatology of black carbon optical properties at 9 regional background sites across Europe. Atmospheric Environment, 2016, 145, 346-364.	4.1	132
13	Aerosol decadal trends â€“ Part 1: In-situ optical measurements at GAW and IMPROVE stations. Atmospheric Chemistry and Physics, 2013, 13, 869-894.	4.9	126
14	Ultrafine particle size distributions measured in aircraft exhaust plumes. Journal of Geophysical Research, 2000, 105, 26555-26567.	3.3	122
15	The influence of cruise ship emissions on air pollution in Svalbard â€“ a harbinger of a more polluted Arctic?. Atmospheric Chemistry and Physics, 2013, 13, 8401-8409.	4.9	94
16	Comprehensive particle characterization from three-wavelength Raman-lidar observations: case study. Applied Optics, 2001, 40, 4863.	2.1	88
17	Optical closure for an aerosol column: Method, accuracy, and inferable properties applied to a biomass-burning aerosol and its radiative forcing. Journal of Geophysical Research, 2002, 107, LAC 12-1-LAC 12-15.	3.3	85
18	Seasonality of aerosol optical properties in the Arctic. Atmospheric Chemistry and Physics, 2018, 18, 11599-11622.	4.9	80

#	Article	IF	Citations
19	Aerosol decadal trends â€“ Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. Atmospheric Chemistry and Physics, 2013, 13, 895-916.	4.9	78
20	AÂEuropean aerosol phenomenology â€“ 6: scattering properties of atmospheric aerosol particles from 28ÂACTRIS sites. Atmospheric Chemistry and Physics, 2018, 18, 7877-7911.	4.9	76
21	Quantifying black carbon from biomass burning by means of levoglucosan â€“ a one-year time series at the Arctic observatory Zeppelin. Atmospheric Chemistry and Physics, 2014, 14, 6427-6442.	4.9	71
22	On Aethalometer measurement uncertainties and an instrument correction factor for the Arctic. Atmospheric Measurement Techniques, 2017, 10, 5039-5062.	3.1	70
23	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	3.1	65
24	Long-term observations of tropospheric particle number size distributions and equivalent black carbon mass concentrations in the German Ultrafine Aerosol Network (GUAN). Earth System Science Data, 2016, 8, 355-382.	9.9	63
25	Vertical variability of aerosol properties observed at a continental site during the Lindenberg Aerosol Characterization Experiment (LACE 98). Journal of Geophysical Research, 2002, 107, LAC 10-1-LAC 10-18.	3.3	61
26	Aerosol states in the free troposphere at northern midlatitudes. Journal of Geophysical Research, 2002, 107, LAC 8-1-LAC 8-8.	3.3	59
27	Multidecadal trend analysis of in situ aerosol radiative properties around the world. Atmospheric Chemistry and Physics, 2020, 20, 8867-8908.	4.9	58
28	Desert dust aerosol air mass mapping in the western Sahara, using particle properties derived from space-based multi-angle imaging. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 239.	1.6	57
29	On optical and microphysical characteristics of contrails and cirrus. Journal of Geophysical Research, 2009, 114, .	3.3	53
30	Tracing biomass burning aerosol from South America to Troll Research Station, Antarctica. Geophysical Research Letters, 2009, 36, .	4.0	51
31	Light-absorbing carbon in Europe â€“ measurement and modelling, with a focus on residential wood combustion emissions. Atmospheric Chemistry and Physics, 2013, 13, 8719-8738.	4.9	51
32	Collocated observations of cloud condensation nuclei, particle size distributions, and chemical composition. Scientific Data, 2017, 4, 170003.	5.3	44
33	Inversion of data containing information on the aerosol particle size distribution using multiple instruments. Journal of Aerosol Science, 2005, 36, 1353-1372.	3.8	42
34	Variations in tropospheric submicron particle size distributions across the European continent 2008â€“2009. Atmospheric Chemistry and Physics, 2014, 14, 4327-4348.	4.9	41
35	Measurement of ultrafine aerosol size distributions by a combination of diffusion screen separators and condensation particle counters. Journal of Aerosol Science, 2006, 37, 577-597.	3.8	40
36	Changes in black carbon emissions over Europe due to COVID-19 lockdowns. Atmospheric Chemistry and Physics, 2021, 21, 2675-2692.	4.9	40

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37	Particle emissions from aircraft engines a survey of the European project PartEmis. Meteorologische Zeitschrift, 2005, 14, 465-476.	1.0	38
38	In situ studies on volatile jet exhaust particle emissions: Impact of fuel sulfur content and environmental conditions on nuclei mode aerosols. Journal of Geophysical Research, 2000, 105, 19941-19954.	3.3	37
39	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Chemistry and Physics, 2021, 21, 17185-17223.	4.9	31
40	Airborne Lidar and in-situ Aerosol Observations of an Elevated Layer, Leeward of the European Alps and Apennines. Geophysical Research Letters, 2002, 29, 33-1-33-4.	4.0	30
41	Retrieval and climatology of the aerosol asymmetry parameter in the NOAA aerosol monitoring network. Journal of Geophysical Research, 2006, 111, .	3.3	30
42	Aircraft-based operation of an aerosol mass spectrometer: Measurements of tropospheric aerosol composition. Journal of Aerosol Science, 2006, 37, 839-857.	3.8	30
43	Comment on â€œControl of fossil-fuel particulate black carbon and organic matter, possibly the most effective method of slowing global warmingâ€•by M. Z. Jacobson. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	29
44	Atmospheric composition in the European Arctic and 30Âyears of the Zeppelin Observatory, Ny-Ã…lesund. Atmospheric Chemistry and Physics, 2022, 22, 3321-3369.	4.9	24
45	Atmospheric monitoring at the Norwegian Antarctic station Troll: measurement programme and first results. Polar Research, 2009, 28, 353-363.	1.6	23
46	The IAGOS-CORE aerosol package: instrument design, operation and performance for continuous measurement aboard in-service aircraft. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 28339.	1.6	21
47	Annual cycle of Antarctic baseline aerosol: controlled by photooxidation-limited aerosol formation. Atmospheric Chemistry and Physics, 2014, 14, 3083-3093.	4.9	20
48	Aerosol-radiation interaction in the cloudless atmosphere during LACE 98 1. Measured and calculated broadband solar and spectral surface insolations. Journal of Geophysical Research, 2002, 107, LAC 6-1-LAC 6-20.	3.3	18
49	Aerosol-radiation interaction in the cloudless atmosphere during LACE 98 2. Aerosol-induced solar irradiance changes determined from airborne pyranometer measurements and calculations. Journal of Geophysical Research, 2002, 107, LAC 12-1-LAC 12-15.	3.3	12
50	Trends, composition, and sources of carbonaceous aerosol at the Birkenes Observatory, northern Europe, 2001â€“2018. Atmospheric Chemistry and Physics, 2021, 21, 7149-7170.	4.9	12
51	Ground-based measured and calculated spectra of actinic flux density and downward UV irradiance in cloudless conditions and their sensitivity to aerosol microphysical properties. Journal of Geophysical Research, 2003, 108, .	3.3	7
52	Quantification of Element Mass Concentrations in Ambient Aerosols by Combination of Cascade Impactor Sampling and Mobile Total Reflection X-ray Fluorescence Spectroscopy. Atmosphere, 2021, 12, 309.	2.3	7
53	Curating Scientific Information in Knowledge Infrastructures. Data Science Journal, 2018, 17, .	1.3	7
54	Correction to â€œOptical closure for an aerosol column: Method, accuracy, and inferable properties applied to a biomassâ€burning aerosol and its radiative forcingâ€•by M. Fiebig, A. Petzold, U. Wandinger, M. Wendisch, C. Kiemle, A. Stifter, M. Ebert, T. Rother, and U. Leiterer. Journal of Geophysical Research, 2003, 108, .	3.3	0