Meinrat Andreae

List of Publications by Year
in descending order

764

1022

580 papers	72,583 citations	119 h-index	235 g-index
786 all docs	786 docs citations	786 times ranked	29107 citing authors

#	Article	IF	Citations
1	Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate. Nature, 1987, 326, 655-661.	13.7	3,811
2	Emission of trace gases and aerosols from biomass burning. Global Biogeochemical Cycles, 2001, 15, 955-966.	1.9	3,250
3	Biomass Burning in the Tropics: Impact on Atmospheric Chemistry and Biogeochemical Cycles. Science, 1990, 250, 1669-1678.	6.0	2,221
4	Black carbon or brown carbon? The nature of light-absorbing carbonaceous aerosols. Atmospheric Chemistry and Physics, 2006, 6, 3131-3148.	1.9	1,691
5	Flood or Drought: How Do Aerosols Affect Precipitation?. Science, 2008, 321, 1309-1313.	6.0	1,682
6	Atmospheric Aerosols: Biogeochemical Sources and Role in Atmospheric Chemistry. Science, 1997, 276, 1052-1058.	6.0	1,474
7	Aerosolâ€"cloudâ€"precipitation interactions. Part 1. The nature and sources of cloud-active aerosols. Earth-Science Reviews, 2008, 89, 13-41.	4.0	1,344
8	Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene. Science, 2004, 303, 1173-1176.	6.0	1,316
9	Smoking Rain Clouds over the Amazon. Science, 2004, 303, 1337-1342.	6.0	1,282
10	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. Journal of Geophysical Research, 2001, 106, 28371-28398.	3.3	1,199
11	Biomass burning emissions estimated with a global fire assimilation system based on observed fire radiative power. Biogeosciences, 2012, 9, 527-554.	1.3	876
12	Size Matters More Than Chemistry for Cloud-Nucleating Ability of Aerosol Particles. Science, 2006, 312, 1375-1378.	6.0	871
13	Contribution of cryptogamic covers to the global cycles of carbon and nitrogen. Nature Geoscience, 2012, 5, 459-462.	5.4	711
14	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. Science, 2001, 291, 1031-1036.	6.0	687
15	Soot Carbon and Excess Fine Potassium: Long-Range Transport of Combustion-Derived Aerosols. Science, 1983, 220, 1148-1151.	6.0	623
16	Ocean-atmosphere interactions in the global biogeochemical sulfur cycle. Marine Chemistry, 1990, 30, 1-29.	0.9	621
17	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. Atmospheric Research, 2016, 182, 346-376.	1.8	609
18	Strong present-day aerosol cooling implies a hot future. Nature, 2005, 435, 1187-1190.	13.7	577

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19	Optical properties of humic-like substances (HULIS) in biomass-burning aerosols. Atmospheric Chemistry and Physics, 2006, 6, 3563-3570.	1.9	566
20	A global database of sea surface dimethylsulfide (DMS) measurements and a procedure to predict sea surface DMS as a function of latitude, longitude, and month. Global Biogeochemical Cycles, 1999, 13, 399-444.	1.9	552
21	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. Science, 2010, 329, 1513-1516.	6.0	541
22	Flux of dimethylsulfide from the oceans: A comparison of updated data sets and flux models. Journal of Geophysical Research, 2000, 105, 26793-26808.	3.3	505
23	Dimethyl Sulfide in the Surface Ocean and the Marine Atmosphere: A Global View. Science, 1983, 221, 744-747.	6.0	483
24	Calibration and measurement uncertainties of a continuous-flow cloud condensation nuclei counter (DMT-CCNC): CCN activation of ammonium sulfate and sodium chloride aerosol particles in theory and experiment. Atmospheric Chemistry and Physics, 2008, 8, 1153-1179.	1.9	479
25	Biomassâ€burning emissions and associated haze layers over Amazonia. Journal of Geophysical Research, 1988, 93, 1509-1527.	3.3	465
26	Contribution of fungi to primary biogenic aerosols in the atmosphere: wet and dry discharged spores, carbohydrates, and inorganic ions. Atmospheric Chemistry and Physics, 2007, 7, 4569-4588.	1.9	456
27	Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. Atmospheric Chemistry and Physics, 2006, 6, 2017-2038.	1.9	447
28	Emission of trace gases and aerosols from biomass burning â€“ an updated assessment. Atmospheric Chemistry and Physics, 2019, 19, 8523-8546.	1.9	447
29	Soil Nitrite as a Source of Atmospheric HONO and OH Radicals. Science, 2011, 333, 1616-1618.	6.0	431
30	Water-soluble organic compounds in biomass burning aerosols over Amazonia1. Characterization by NMR and GC-MS. Journal of Geophysical Research, 2002, 107, LBA 14-1.	3.3	430
31	Determination of arsenic species in natural waters. Analytical Chemistry, 1977, 49, 820-823.	3.2	391
32	Water-soluble organic compounds in biomass burning aerosols over Amazonia 2. Apportionment of the chemical composition and importance of the polyacidic fraction. Journal of Geophysical Research, 2002, 107, LBA 59-1.	3.3	374
33	High concentrations of biological aerosol particles and ice nuclei during and after rain. Atmospheric Chemistry and Physics, 2013, 13, 6151-6164.	1.9	355
34	Cloud condensation nuclei in pristine tropical rainforest air of Amazonia: size-resolved measurements and modeling of atmospheric aerosol composition and CCN activity. Atmospheric Chemistry and Physics, 2009, 9, 7551-7575.	1.9	347
35	Size distribution and hygroscopic properties of aerosol particles from dry-season biomass burning in Amazonia. Atmospheric Chemistry and Physics, 2006, 6, 471-491.	1.9	342
36	Internal Mixture of Sea Salt, Silicates, and Excess Sulfate in Marine Aerosols. Science, 1986, 232, 1620-1623.	6.0	339

#	Article	IF	Citations
37	Reference Values Following <scp>ISO</scp> Guidelines for Frequently Requested Rock Reference Materials. Geostandards and Geoanalytical Research, 2016, 40, 333-350.	1.7	339
38	Including the sub-grid scale plume rise of vegetation fires in low resolution atmospheric transport models. Atmospheric Chemistry and Physics, 2007, 7, 3385-3398.	1.9	334
39	Arsenic speciation in seawater and interstitial waters: The influence of biologicalâ€chemical interactions on the chemistry of a trace element1. Limnology and Oceanography, 1979, 24, 440-452.	1.6	329
40	Global observations of aerosol-cloud-precipitation-climate interactions. Reviews of Geophysics, 2014, 52, 750-808.	9.0	316
41	Correlation between cloud condensation nuclei concentration and aerosol optical thickness in remote and polluted regions. Atmospheric Chemistry and Physics, 2009, 9, 543-556.	1.9	313
42	Aerosol- and updraft-limited regimes of cloud droplet formation: influence of particle number, size and hygroscopicity on the activation of cloud condensation nuclei (CCN). Atmospheric Chemistry and Physics, 2009, 9, 7067-7080.	1.9	305
43	Formic and acetic acid over the central Amazon region, Brazil: 1. Dry season. Journal of Geophysical Research, 1988, 93, 1616-1624.	3.3	303
44	Dryland photoautotrophic soil surface communities endangered by global change. Nature Geoscience, 2018, 11, 185-189.	5.4	302
45	Methane in the Baltic and North Seas and a reassessment of the marine emissions of methane. Global Biogeochemical Cycles, 1994, 8, 465-480.	1.9	301
46	Biosynthesis of dimethylsulfide and dimethylpropiothetin by <i>Hymenomonas carterae</i> in relation to sulfur source and salinity variations. Limnology and Oceanography, 1985, 30, 59-70.	1.6	296
47	Biogeochemical cycling of carbon, water, energy, trace gases, and aerosols in Amazonia: The LBA-EUSTACH experiments. Journal of Geophysical Research, 2002, 107, LBA 33-1.	3.3	295
48	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China â€" Part 1: Size-resolved measurements and implications for the modeling of aerosol particle hygroscopicity and CCN activity. Atmospheric Chemistry and Physics, 2010, 10, 3365-3383.	1.9	294
49	Spectral light absorption by ambient aerosols influenced by biomass burning in the Amazon Basin. I: Comparison and field calibration of absorption measurement techniques. Atmospheric Chemistry and Physics, 2006, 6, 3443-3462.	1.9	285
50	Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, .	9.0	283
51	Determination of antimony(III), antimony(V), and methylantimony species in natural waters by atomic absorption spectrometry with hydride generation. Analytical Chemistry, 1981, 53, 1766-1771.	3.2	276
52	HONO Emissions from Soil Bacteria as a Major Source of Atmospheric Reactive Nitrogen. Science, 2013, 341, 1233-1235.	6.0	276
53	Distribution and speciation of arsenic in natural waters and some marine algae. Deep-sea Research, 1978, 25, 391-402.	1.5	274
54	Source characterization of biomass burning particles: The combustion of selected European conifers, African hardwood, savanna grass, and German and Indonesian peat. Journal of Geophysical Research, 2007, 112, .	3.3	271

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55	Characterization of the organic composition of aerosols from RondÃ´nia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds. Atmospheric Chemistry and Physics, 2006, 6, 375-402.	1.9	265
56	Dimethyl sulfide in the marine atmosphere. Journal of Geophysical Research, 1985, 90, 12891-12900.	3.3	260
57	Mass spectrometric analysis and aerodynamic properties of various types of combustion-related aerosol particles. International Journal of Mass Spectrometry, 2006, 258, 37-49.	0.7	260
58	Analysis of aircraft and satellite measurements from the Intercontinental Chemical Transport Experiment (INTEX-B) to quantify long-range transport of East Asian sulfur to Canada. Atmospheric Chemistry and Physics, 2008, 8, 2999-3014.	1.9	259
59	Physical and chemical properties of aerosols in the wet and dry seasons in RondÃ´nia, Amazonia. Journal of Geophysical Research, 2002, 107, LBA 49-1.	3.3	250
60	Optical properties and chemical composition of the atmospheric aerosol in urban Guangzhou, China. Atmospheric Environment, 2008, 42, 6335-6350.	1.9	248
61	Regional Integrated Experiments on Air Quality over Pearl River Delta 2004 (PRIDE-PRD2004): Overview. Atmospheric Environment, 2008, 42, 6157-6173.	1.9	245
62	Face masks effectively limit the probability of SARS-CoV-2 transmission. Science, 2021, 372, 1439-1443.	6.0	240
63	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. Geophysical Research Letters, 2001, 28, 951-954.	1.5	234
64	Vertical distribution of dimethylsulfide, sulfur dioxide, aerosol ions, and radon over the Northeast Pacific Ocean. Journal of Atmospheric Chemistry, 1988, 6, 149-173.	1.4	232
65	The Ocean as a Source of Atmospheric Sulfur Compounds. , 1986, , 331-362.		230
66	Biomass burning aerosol emissions from vegetation fires: particle number and mass emission factors and size distributions. Atmospheric Chemistry and Physics, 2010, 10, 1427-1439.	1.9	227
67	Cloud and rain processes in a biosphere-atmosphere interaction context in the Amazon Region. Journal of Geophysical Research, 2002, 107, LBA 39-1.	3.3	222
68	The flux of dimethylsulfide from the oceans to the atmosphere. Journal of Geophysical Research, 1982, 87, 8787-8793.	3.3	220
69	Nitrous oxide in coastal waters. Global Biogeochemical Cycles, 1996, 10, 197-207.	1.9	219
70	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. Atmospheric Chemistry and Physics, 2015, 15, 10723-10776.	1.9	218
71	ATMOSPHERE: Aerosols Before Pollution. Science, 2007, 315, 50-51.	6.0	217
72	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). Atmospheric Chemistry and Physics, 2016, 16, 4785-4797.	1.9	213

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73	The mean physical and optical properties of regional haze dominated by biomass burning aerosol measured from the C-130 aircraft during SAFARI 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	212
74	Atmospheric aerosols in Amazonia and land use change: from natural biogenic to biomass burning conditions. Faraday Discussions, 2013, 165, 203.	1.6	207
75	Biosynthesis and release of organoarsenic compounds by marine algae. Environmental Science & Technology, 1979, 13, 738-741.	4.6	206
76	Sources and sinks of formic, acetic, and pyruvic acids over central Amazonia: 2. Wet season. Journal of Geophysical Research, 1990, 95, 16799-16811.	3.3	200
77	Molecular distributions of dicarboxylic acids, ketocarboxylic acids and Î±-dicarbonyls in biomass burning aerosols: implications for photochemical production and degradation in smoke layers. Atmospheric Chemistry and Physics, 2010, 10, 2209-2225.	1.9	195
78	Climatic effects of changing atmospheric aerosol levels. World Survey of Climatology, 1995, , 347-398.	0.4	194
79	Accurate trace element analysis of speleothems and biogenic calcium carbonates by LA-ICP-MS. Chemical Geology, 2012, 318-319, 31-44.	1.4	194
80	Origin of carbonaceous aerosols over the tropical Indian Ocean: Biomass burning or fossil fuels?. Geophysical Research Letters, 2000, 27, 4061-4064.	1.5	190
81	Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. Science, 2012, 337, 1075-1078.	6.0	188
82	Size distributions and temporal variations of biological aerosol particles in the Amazon rainforest characterized by microscopy and real-time UV-APS fluorescence techniques during AMAZE-08. Atmospheric Chemistry and Physics, 2012, 12, 11997-12019.	1.9	187
83	Airborne studies of aerosol emissions from savanna fires in southern Africa: 2. Aerosol chemical composition. Journal of Geophysical Research, 1998, 103, 32119-32128.	3.3	184
84	Global budget of atmospheric carbonyl sulfide: Temporal and spatial variations of the dominant sources and sinks. Journal of Geophysical Research, 2002, 107, ACH 25-1.	3.3	182
85	Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget. Atmospheric Chemistry and Physics, 2007, 7, 2855-2879.	1.9	181
86	Real-time measurements of ammonia, acidic trace gases and water-soluble inorganic aerosol species at a rural site in the Amazon Basin. Atmospheric Chemistry and Physics, 2004, 4, 967-987.	1.9	178
87	The Palaeoanthropocene â€“ The beginnings of anthropogenic environmental change. Anthropocene, 2013, 3, 83-88.	1.6	178
88	Organic compounds present in the natural Amazonian aerosol: Characterization by gas chromatography-mass spectrometry. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	177
89	The Coupled Aerosol and Tracer Transport model to the Brazilian developments on the Regional Atmospheric Modeling System (CATT-BRAMS) â€“ Part 1: Model description and evaluation. Atmospheric Chemistry and Physics, 2009, 9, 2843-2861.	1.9	173
90	Characterization of primary biogenic aerosol particles in urban, rural, and high-alpine air by DNA sequence and restriction fragment analysis of ribosomal RNA genes. Biogeosciences, 2007, 4, 1127-1141.	1.3	171

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91	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. Geophysical Research Letters, 2009, 36, .	1.5	171
92	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). Atmospheric Chemistry and Physics, 2010, 10, 11415-11438.	1.9	170
93	Sensitivity of CCN spectra on chemical and physical properties of aerosol: A case study from the Amazon Basin. Journal of Geophysical Research, 2002, 107, LBA 37-1.	3.3	167
94	Atmospheric volatile organic compounds (VOC) at a remote tropical forest site in central Amazonia. Atmospheric Environment, 2000, 34, 4063-4072.	1.9	164
95	Airborne measurements of dimethylsulfide, sulfur dioxide, and aerosol ions over the Southern Ocean South of Australia. Journal of Atmospheric Chemistry, 1990, 10, 341-370.	1.4	163
96	Influence of plumes from biomass burning on atmospheric chemistry over the equatorial and tropical South Atlantic during CITE 3. Journal of Geophysical Research, 1994, 99, 12793.	3.3	163
97	Emission of Methyl Bromide from Biomass Burning. Science, 1994, 263, 1255-1257.	6.0	162
98	Precipitation chemistry in central Amazonia. Journal of Geophysical Research, 1990, 95, 16987-16999.	3.3	160
99	The dark side of aerosols. Nature, 2001, 409, 671-672.	13.7	160
100	Physical properties of the sub-micrometer aerosol over the Amazon rain forest during the wet-to-dry season transition - comparison of modeled and measured CCN concentrations. Atmospheric Chemistry and Physics, 2004, 4, 2119-2143.	1.9	160
101	Modeling of biomass smoke injection into the lower stratosphere by a large forest fire (Part I): reference simulation. Atmospheric Chemistry and Physics, 2006, 6, 5247-5260.	1.9	156
102	Volatile organic compound emissions in relation to plant carbon fixation and the terrestrial carbon budget. Global Biogeochemical Cycles, 2002, 16, 73-1-73-9.	1.9	155
103	Carbonaceous aerosols over the Indian Ocean during the Indian Ocean Experiment (INDOEX): Chemical characterization, optical properties, and probable sources. Journal of Geophysical Research, 2002, 107, INX2 29-1.	3.3	154
104	The marine chemistry of dimethylsulfide. Marine Chemistry, 1984, 14, 267-279.	0.9	152
105	Chemical composition of mineral dust aerosol during the Saharan Dust Experiment (SHADE) airborne campaign in the Cape Verde region, September 2000. Journal of Geophysical Research, 2003, 108, .	3.3	152
106	Biogeography in the air: fungal diversity over land and oceans. Biogeosciences, 2012, 9, 1125-1136.	1.3	152
107	Uncertainty in Climate Change Caused by Aerosols. Science, 1996, 272, 1121-0.	6.0	151
108	Raman lidar and sunphotometric measurements of aerosol optical properties over Thessaloniki, Greece during a biomass burning episode. Atmospheric Environment, 2003, 37, 4529-4538.	1.9	151

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109	Dimethylsulfide and Phaeocystis poucheti in the southeastern Bering Sea. Continental Shelf Research, 1984, 3, 103-113.	0.9	150
110	Determination of methylmercury in fish samples using GC/AA and sodium tetraethylborate derivatization. Analytical Chemistry, 1993, 65, 763-766.	3.2	150
111	Aerosol optical properties in a rural environment near the mega-city Guangzhou, China: implications for regional air pollution, radiative forcing and remote sensing. Atmospheric Chemistry and Physics, 2008, 8, 5161-5186.	1.9	150
112	Methyl halide emissions from savanna fires in southern Africa. Journal of Geophysical Research, 1996, 101, 23603-23613.	3.3	148
113	Cloud condensation nuclei in the Amazon Basin: â€œmarineâ€•conditions over a continent?. Geophysical Research Letters, 2001, 28, 2807-2810.	1.5	148
114	Aerosol mass closure and reconstruction of the light scattering coefficient over the Eastern Mediterranean Sea during the MINOS campaign. Atmospheric Chemistry and Physics, 2005, 5, 2253-2265.	1.9	148
115	Regional atmospheric aerosol composition and sources in the eastern Transvaal, South Africa, and impact of biomass burning. Journal of Geophysical Research, 1996, 101, 23631-23650.	3.3	147
116	Cloud condensation nuclei (CCN) from fresh and aged air pollution in the megacity region of Beijing. Atmospheric Chemistry and Physics, 2011, 11, 11023-11039.	1.9	147
117	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China â€" Part 2: Size-resolved aerosol chemical composition, diurnal cycles, and externally mixed weakly CCN-active soot particles. Atmospheric Chemistry and Physics, 2011, 11, 2817-2836.	1.9	146
118	Raising dust in the greenhouse. Nature, 1996, 380, 389-390.	13.7	145
119	Photochemical production of carbonyl sulphide in marine surface waters. Nature, 1984, 307, 148-150.	13.7	140
120	Enhanced organic mass fraction and decreased hygroscopicity of cloud condensation nuclei (CCN) during new particle formation events. Geophysical Research Letters, 2010, 37, .	1.5	138
121	Atmospheric measurements of pyruvic and formic acid. Journal of Geophysical Research, 1987, 92, 6635-6641.	3.3	137
122	Production of dimethylsulfonium propionate and dimethylsulfide by phytoplankton in estuarine and coastal waters. Limnology and Oceanography, 1989, 34, 53-67.	1.6	136
123	Biogenic sulfur emissions and aerosols over the tropical South Atlantic: 3. Atmospheric dimethylsulfide, aerosols and cloud condensation nuclei. Journal of Geophysical Research, 1995, 100, 11335.	3.3	135
124	Light scattering by dust and anthropogenic aerosol at a remote site in the Negev desert, Israel. Journal of Geophysical Research, 2002, 107, AAC 3-1.	3.3	132
125	Composition and diurnal variability of the natural Amazonian aerosol. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	132
126	Saharan dust in Brazil and Suriname during the Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) - Cooperative LBA Regional Experiment (CLAIRE) in March 1998. Journal of Geophysical Research, 2001, 106, 14919-14934.	3.3	131

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127	Inorganic and carbonaceous aerosols during the Southern African Regional Science Initiative (SAFARI) Tj ETQq1 1 0.784314 rgBT /Overlo African biomass burning. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	131
128	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	5.8	131
129	Aerosol chemistry during the wet season in central Amazonia: The influence of longâ€range transport. Journal of Geophysical Research, 1990, 95, 16955-16969.	3.3	129
130	Overview of the inorganic and organic composition of size-segregated aerosol in RondÃ´nia, Brazil, from the biomass-burning period to the onset of the wet season. Journal of Geophysical Research, 2007, 112, .	3.3	128
131	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. Bulletin of the American Meteorological Society, 2017, 98, 981-997.	1.7	128
132	Long-range transport of soot carbon in the marine atmosphere. Science of the Total Environment, 1984, 36, 73-80.	3.9	125
133	The geochemistry of inorganic germanium in natural waters. Journal of Geophysical Research, 1985, 90, 1133-1141.	3.3	125
134	The Chisholm firestorm: observed microstructure, precipitation and lightning activity of a pyro-cumulonimbus. Atmospheric Chemistry and Physics, 2007, 7, 645-659.	1.9	125
135	Transport of North African dust from the BodÃ©lÃ© depression to the Amazon Basin: a case study. Atmospheric Chemistry and Physics, 2010, 10, 7533-7544.	1.9	124
136	ACRIDICONâ€"CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. Bulletin of the American Meteorological Society, 2016, 97, 1885-1908.	1.7	124
137	Tin and Methyltin Species in Seawater: Concentrations and Fluxes. Science, 1982, 218, 565-569.	6.0	122
138	Climate's Dark Forcings. Science, 2013, 340, 280-281.	6.0	122
139	Climatological aspects of aerosol optical properties in Northern Greece. Atmospheric Chemistry and Physics, 2003, 3, 2025-2041.	1.9	120
140	Diurnal variation in the water-soluble inorganic ions, organic carbon and isotopic compositions of total carbon and nitrogen in biomass burning aerosols from the LBA-SMOCC campaign in RondÃ´nia, Brazil. Journal of Aerosol Science, 2010, 41, 118-133.	1.8	119
141	Modulation of the Southern Ocean cadmium isotope signature by ocean circulation and primary productivity. Earth and Planetary Science Letters, 2011, 305, 83-91.	1.8	119
142	Determination of trace quantities of dimethyl sulfide in aqueous solutions. Analytical Chemistry, 1983, 55, 608-612.	3.2	118
143	Importance of the organic aerosol fraction for modeling aerosol hygroscopic growth and activation: a case study in the Amazon Basin. Atmospheric Chemistry and Physics, 2005, 5, 3111-3126.	1.9	118
144	Arsenic, antimony, germanium, and tin in the Tejo estuary, Portugal: modeling a polluted estuary. Environmental Science & Technology, 1983, 17, 731-737.	4.6	117

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145	Arsenic, barium, germanium, tin, dimethylsulfide and nutrient biogeochemistry in Charlotte Harbor, Florida, a phosphorus-enriched estuary. Estuarine, Coastal and Shelf Science, 1985, 20, 239-264.	0.9	117
146	Clean the Air, Heat the Planet?. Science, 2009, 326, 672-673.	6.0	116
147	Methane and nitrous oxide emissions from the ocean: A reassessment using basinâ€wide observations in the Atlantic. Journal of Geophysical Research, 2009, 114, .	3.3	116
148	Hygroscopicity distribution concept for measurement data analysis and modeling of aerosol particle mixing state with regard to hygroscopic growth and CCN activation. Atmospheric Chemistry and Physics, 2010, 10, 7489-7503.	1.9	116
149	Arsenic, antimony, and germanium biogeochemistry in the Baltic Sea. Tellus, Series B: Chemical and Physical Meteorology, 1984, 36B, 101-117.	0.8	115
150	Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. Science, 2020, 369, 1374-1377.	6.0	115
151	International geosphere-biosphere programme/international global atmospheric chemistry SAFARI-92 field experiment: Background and overview. Journal of Geophysical Research, 1996, 101, 23521-23530.	3.3	114
152	Analysis of black carbon and carbon monoxide observed over the Indian Ocean: Implications for emissions and photochemistry. Journal of Geophysical Research, 2002, 107, INX2 16-1.	3.3	112
153	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419.	13.7	112
154	A revised nitrogen budget for the Arabian Sea. Global Biogeochemical Cycles, 2000, 14, 1283-1297.	1.9	111
155	Impact of including the plume rise of vegetation fires in numerical simulations of associated atmospheric pollutants. Geophysical Research Letters, 2006, 33, .	1.5	110
156	Robust relations between CCN and the vertical evolution of cloud drop size distribution in deep convective clouds. Atmospheric Chemistry and Physics, 2008, 8, 1661-1675.	1.9	110
157	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. Atmospheric Chemistry and Physics, 2018, 18, 2853-2881.	1.9	108
158	Complex refractive indices and single-scattering albedo of global dust aerosols in the shortwave spectrum and relationship to size and iron content. Atmospheric Chemistry and Physics, 2019, 19, 15503-15531.	1.9	108
159	Bioaccumulation of Methylmercury and Transformation of Inorganic Mercury by Macrofungi. Environmental Science & Technology, 1995, 29, 993-999.	4.6	107
160	Geochemical and isotopic characterization of the BodÃ©lÃ© Depression dust source and implications for transatlantic dust transport to the Amazon Basin. Earth and Planetary Science Letters, 2013, 380, 112-123.	1.8	106
161	Methyl- and butyltin compounds in water and sediments of the Rhine River. Environmental Science & Technology, 1991, 25, 871-878.	4.6	105
162	Long-term observations of cloud condensation nuclei in the Amazon rain forest â€“ Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. Atmospheric Chemistry and Physics, 2016, 16, 15709-15740.	1.9	105

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163	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961.	1.9	105
164	Rainfall and surface kinematic conditions over central Amazonia during ABLE 2B. Journal of Geophysical Research, 1990, 95, 17001-17014.	3.3	104
165	Dry and wet deposition of inorganic nitrogen compounds to a tropical pasture site (RondÃ´nia, Brazil). Atmospheric Chemistry and Physics, 2006, 6, 447-469.	1.9	104
166	Impact of Manaus City on the Amazon Green Ocean atmosphere: ozone production, precursor sensitivity and aerosol load. Atmospheric Chemistry and Physics, 2010, 10, 9251-9282.	1.9	103
167	Ground-based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment. Atmospheric Chemistry and Physics, 2014, 14, 12069-12083.	1.9	103
168	Reorganization of the North Atlantic Oscillation during early Holocene deglaciation. Nature Geoscience, 2016, 9, 602-605.	5.4	103
169	The Marine Geochemistry of Germanium: Ekasilicon. Science, 1981, 213, 205-207.	6.0	102
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