Meinrat Andreae

List of Publications by Year
in descending order

580	72,583	910 119	1189 235
papers	citations	h-index	g-index

786	786	786	32483
all docs	docs citations	times ranked	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

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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 Hymenomonas carterae 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 /Ove 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
170	Emission of formic and acetic acids from tropical Savanna soils. Geophysical Research Letters, 1991, 18, 1707-1710.	1.5	102
171	Preliminary results on nitric oxide emission from a southern African savanna ecosystem. Nutrient Cycling in Agroecosystems, 1997, 48, 123-138.	1.1	102
172	Ground-based lidar measurements of aerosols during ACE-2: instrument description, results, and comparisons with other ground-based and airborne measurements. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 636.	0.8	102
173	Modeling of biomass smoke injection into the lower stratosphere by a large forest fire (PartÂII): sensitivity studies. Atmospheric Chemistry and Physics, 2006, 6, 5261-5277.	1.9	101
174	Aerosol optical properties observed during Campaign of Air Quality Research in Beijing 2006 (CAREBeijingâ€2006): Characteristic differences between the inflow and outflow of Beijing city air. Journal of Geophysical Research, 2009, 114, .	3.3	100
175	Vertical distribution of dimethylsulphide in the marine atmosphere. Nature, 1986, 320, 514-516.	13.7	99
176	Regional aerosol chemistry of the Amazon Basin during the dry season. Journal of Geophysical Research, 1988, 93, 1499-1508.	3.3	99
177	The cycle of biogenic sulfur compounds over the Amazon Basin: 1. Dry season. Journal of Geophysical Research, 1988, 93, 1487-1497.	3.3	98
178	Black carbon formation by savanna fires: Measurements and implications for the global carbon cycle. Journal of Geophysical Research, 1996, 101, 23651-23665.	3.3	98
179	Concentrations and species composition of atmospheric volatile organic compounds (VOCs) as observed during the wet and dry season in RondÃ´nia (Amazonia). Journal of Geophysical Research, 2002, 107, LBA 20-1.	3.3	98
180	Biogenic Gas (CH4, N2O, DMS) Emission to the Atmosphere from Near-shore and Shelf Waters of the North-western Black Sea. Estuarine, Coastal and Shelf Science, 2002, 54, 575-587.	0.9	97

#	Article	IF	Citations
181	The role of iron and black carbon in aerosol light absorption. Atmospheric Chemistry and Physics, 2008, 8, 3623-3637.	1.9	97
182	Three-year ground based measurements of aerosol optical depth over the Eastern Mediterranean: the urban environment of Athens. Atmospheric Chemistry and Physics, 2011, 11, 2145-2159.	1.9	97
183	An intercomparison of measurement systems for vapor and particulate phase concentrations of formic and acetic acids. Journal of Geophysical Research, 1989, 94, 6457-6471.	3.3	96
184	The atmospheric sulfur cycle over the Amazon Basin: 2. Wet season. Journal of Geophysical Research, 1990, 95, 16813-16824.	3.3	96
185	Seasonal variation of ozone deposition to a tropical rain forest in southwest Amazonia. Atmospheric Chemistry and Physics, 2007, 7, 5415-5435.	1.9	95
186	The NH4+-NO3â^'-Clâ^'-SO42â^'-H2O aerosol system and its gas phase precursors at a pasture site in the Amazon Basin: How relevant are mineral cations and soluble organic acids?. Journal of Geophysical Research, 2005, 110, .	3.3	94
187	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. Nature Geoscience, 2021, 14, 77-84.	5.4	94
188	Airborne measurements of trace gas and aerosol particle emissions from biomass burning in Amazonia. Atmospheric Chemistry and Physics, 2005, 5, 2989-3002.	1.9	93
189	Carbonyl sulfide exchange on an ecosystem scale: soil represents a dominant sink for atmospheric COS. Atmospheric Environment, 1999, 33, 995-1008.	1.9	92
190	Trace gas chemistry in a young biomass burning plume over Namibia: Observations and model simulations. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	92
191	Biogeochemical cycling of cadmium isotopes in the Southern Ocean along the Zero Meridian. Geochimica Et Cosmochimica Acta, 2014, 127, 348-367.	1.6	92
192	Ozone and Aitken nuclei over equatorial Africa: Airborne observations during DECAFE 88. Journal of Geophysical Research, 1992, 97, 6137-6148.	3.3	91
193	Satellite retrieval of cloud condensation nuclei concentrations by using clouds as CCN chambers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5828-5834.	3.3	91
194	Global scale variability of the mineral dust long-wave refractive index: a new dataset of in situ measurements for climate modeling and remote sensing. Atmospheric Chemistry and Physics, 2017, 17, 1901-1929.	1.9	91
195	Polar organic marker compounds in atmospheric aerosols during the LBA-SMOCC 2002 biomass burning experiment in RondÃ´nia, Brazil: sources and source processes, time series, diel variations and size distributions. Atmospheric Chemistry and Physics, 2010, 10, 9319-9331.	1.9	90
196	Measurement of Wavelength-Resolved Light Absorption by Aerosols Utilizing a UV-VIS Extinction Cell. Aerosol Science and Technology, 2005, 39, 249-260.	1.5	89
197	Comparison of three methods of fractal analysis applied to soot aggregates from wood combustion. Journal of Aerosol Science, 2006, 37, 820-838.	1.8	89
198	Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11595-E11603.	3.3	89

#	Article	IF	Citations
199	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). Atmospheric Chemistry and Physics, 2015, 15, 3687-3701.	1.9	88
200	Precipitation chemistry in the MayombÃ© forest of equatorial Africa. Journal of Geophysical Research, 1992, 97, 6195-6206.	3.3	87
201	Eddy covariance measurements of nitric oxide flux within an Amazonian rain forest. Journal of Geophysical Research, 2002, 107, LBA 17-1.	3.3	87
202	Dust and pollution aerosols over the Negev desert, Israel: Properties, transport, and radiative effect. Journal of Geophysical Research, 2006, 111, .	3.3	87
203	Air chemistry over the tropical forest of Guyana. Journal of Geophysical Research, 1986, 91, 8603-8612.	3.3	86
204	Biomass burning in the tropical savannas of Ivory Coast: An overview of the field experiment Fire of Savannas (FOS/DECAFE 91). Journal of Atmospheric Chemistry, 1995, 22, 195-216.	1.4	86
205	Nonâ€Matrixâ€Matched Calibration for the Multiâ€Element Analysis of Geological and Environmental Samples Using 200Ânm Femtosecond <scp>LA</scp>â€<scp>ICP</scp>â€<scp>MS</scp>: A Comparison with Nanosecond Lasers. Geostandards and Geoanalytical Research, 2014, 38, 265-292.	1.7	86
206	Determination of germanium in natural waters by graphite furnace atomic absorption spectrometry with hydride generation. Analytical Chemistry, 1981, 53, 287-291.	3.2	85
207	Refractive index of aerosol particles over the Amazon tropical forest during LBA-EUSTACH 1999. Journal of Aerosol Science, 2003, 34, 883-907.	1.8	85
208	Airborne studies of emissions from savanna fires in southern Africa: 1. Aerosol emissions measured with a laser optical particle counter. Journal of Geophysical Research, 1996, 101, 23615-23630.	3.3	84
209	Ground-based lidar measurements of aerosols during ACE-2: instrument description, results, and comparisons with other ground-based and airborne measurements. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 636-651.	0.8	84
210	An analysis of the chemical processes in the smoke plume from a savanna fire. Journal of Geophysical Research, 2005, 110, .	3.3	84
211	Biogenic and Pyrogenic Emissions from Africa and their Impact on the Global Atmosphere. Ambio, 2000, 29, 23-29.	2.8	83
212	Impact of biomass burning on cloud properties in the Amazon Basin. Journal of Geophysical Research, 2003, 108, .	3.3	81
213	Optical and physical properties of aerosols in the boundary layer and free troposphere over the Amazon Basin during the biomass burning season. Atmospheric Chemistry and Physics, 2006, 6, 2911-2925.	1.9	81
214	The Coupled Aerosol and Tracer Transport model to the Brazilian developments on the Regional Atmospheric Modeling System (CATT-BRAMS) â€“ Part 2: Model sensitivity to the biomass burning inventories. Atmospheric Chemistry and Physics, 2010, 10, 5785-5795.	1.9	81
215	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization. Atmospheric Chemistry and Physics, 2012, 12, 4477-4491.	1.9	81
216	Carbon monoxide and related trace gases and aerosols over the Amazon Basin during the wet and dry seasons. Atmospheric Chemistry and Physics, 2012, 12, 6041-6065.	1.9	81

#	Article	IF	Citations
217	Seasonal Study of Methane and Nitrous Oxide in the Coastal Waters of the Southern Baltic Sea. Estuarine, Coastal and Shelf Science, 1998, 47, 807-817.	0.9	80
218	Cloudâ€nucleating properties of the Amazonian biomass burning aerosol: Cloud condensation nuclei measurements and modeling. Journal of Geophysical Research, 2007, 112, .	3.3	80
219	Photochemical production of carbonyl sulfide in seawater and its emission to the atmosphere. Global Biogeochemical Cycles, 1992, 6, 175-183.	1.9	79
220	Biogenic sulfur emissions and aerosols over the tropical South Atlantic: 1. Dimethylsulfide in sea water and in the atmospheric boundary layer. Journal of Geophysical Research, 1994, 99, 22819.	3.3	79
221	Organic acids over equatorial Africa: Results from DECAFE 88. Journal of Geophysical Research, 1992, 97, 6187-6193.	3.3	78
222	Constraining the density and complex refractive index of elemental and organic carbon in biomass burning aerosol using optical and chemical measurements. Atmospheric Environment, 2007, 41, 1107-1118.	1.9	78
223	Correction for a measurement artifact of the Multi-Angle Absorption Photometer (MAAP) at high black carbon mass concentration levels. Atmospheric Measurement Techniques, 2013, 6, 81-90.	1.2	77
224	Spectral dependence of aerosol light absorption over the Amazon Basin. Atmospheric Chemistry and Physics, 2011, 11, 8899-8912.	1.9	76
225	The Emission of Sulfur to the Remote Atmosphere: Background Paper. , 1985, , 5-25.		76
226	Simulation of a biomass-burning plume: Comparison of model results with observations. Journal of Geophysical Research, 2002, 107, AAC 5-1.	3.3	75
227	Determination of methylgermanium species in natural waters by graphite furnace atomic absorption spectrometry with hydride generation. Analytical Chemistry, 1984, 56, 421-424.	3.2	74
228	Title is missing!. Journal of Atmospheric Chemistry, 2003, 44, 23-37.	1.4	74
229	Aerosol optical properties and large-scale transport of air masses: Observations at a coastal and a semiarid site in the eastern Mediterranean during summer 1998. Journal of Geophysical Research, 2001, 106, 9807-9826.	3.3	73
230	STAAARTE-MED 1998 summer airborne measurements over the Aegean Sea 2. Aerosol scattering and absorption, and radiative calculations. Journal of Geophysical Research, 2002, 107, AAC 2-1-AAC 2-14.	3.3	73
231	Determination of tin and methyltin species by hydride generation and detection with graphite-furnace atomic absorption or flame emission spectrometry. Analytica Chimica Acta, 1984, 156, 147-157.	2.6	72
232	Factors affecting the photochemical production of carbonyl sulfide in seawater. Geophysical Research Letters, 1994, 21, 2813-2816.	1.5	72
233	Marine aerosol chemistry at Cape Grim, Tasmania, and Townsville, Queensland. Journal of Geophysical Research, 1982, 87, 8875-8885.	3.3	71
234	Control of solute concentrations in cloud and fog water by liquid water content. Atmospheric Environment, 2000, 34, 1109-1122.	1.9	71

#	Article	IF	Citations
235	Assessing the flux of different volatile sulfur gases from the ocean to the atmosphere. Journal of Geophysical Research, 2001, 106, 12193-12209.	3.3	71
236	Pitfalls with the use of enhancement ratios or normalized excess mixing ratios measured in plumes to characterize pollution sources and aging. Atmospheric Measurement Techniques, 2013, 6, 2155-2158.	1.2	71
237	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. Atmospheric Chemistry and Physics, 2017, 17, 11779-11801.	1.9	71
238	Dimethylsulfide in the water column and the sediment porewaters of the Peru upwelling area1. Limnology and Oceanography, 1985, 30, 1208-1218.	1.6	70
239	Biofuel consumption rates and patterns in Kenya. Biomass and Bioenergy, 2001, 20, 83-99.	2.9	70
240	Photochemistry of the African troposphere: Influence of biomass-burning emissions. Journal of Geophysical Research, 2000, 105, 14513-14530.	3.3	69
241	Physical properties and concentration of aerosol particles over the Amazon tropical forest during background and biomass burning conditions. Atmospheric Chemistry and Physics, 2003, 3, 951-967.	1.9	69
242	Relationship between the NO₂ photolysis frequency and the solar global irradiance. Atmospheric Measurement Techniques, 2009, 2, 725-739.	1.2	69
243	Constraining CO₂ emissions from open biomass burning by satellite observations of co-emitted species: a method and its application to wildfires in Siberia. Atmospheric Chemistry and Physics, 2014, 14, 10383-10410.	1.9	69
244	Spectral- and size-resolved mass absorption efficiency of mineral dust aerosols in the shortwave spectrum: a simulation chamber study. Atmospheric Chemistry and Physics, 2017, 17, 7175-7191.	1.9	66
245	The Influence of Tropical Biomass Burning on Climate and the Atmospheric Environment. , 1993, , 113-150.		66
246	Determination of inorganic tellurium species in natural waters. Analytical Chemistry, 1984, 56, 2064-2066.	3.2	65
247	Diurnal cycles of formic and acetic acids in the northern part of the Guayana shield, Venezuela. Journal of Atmospheric Chemistry, 1991, 13, 63-72.	1.4	65
248	Determination of butylin compounds in sediment using gas chromatography-atomic absorption spectrometry: comparison of sodium tetrahydroborate and sodium tetraethylborate derivatization methods. Analytica Chimica Acta, 1993, 274, 243-251.	2.6	65
249	Modelling of bubble-mediated gas transfer: Fundamental principles and a laboratory test. Journal of Marine Systems, 2007, 66, 71-91.	0.9	65
250	Long-term observations of cloud condensation nuclei over the Amazon rain forest â€“ Part 2: Variability and characteristics of biomass burning, long-range transport, and pristine rain forest aerosols. Atmospheric Chemistry and Physics, 2018, 18, 10289-10331.	1.9	64
251	Historical (1700â€“2012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). Atmospheric Chemistry and Physics, 2019, 19, 12545-12567.	1.9	64
252	Volatile metal and metalloid species in gases from municipal waste deposits. Applied Organometallic Chemistry, 1994, 8, 65-69.	1.7	63

#	Article	IF	Citations
253	The Southern Tropical Atlantic Region Experiment (STARE): Transport and Atmospheric Chemistry near the Equator-Atlantic (TRACE A) and Southern African Fire-Atmosphere Research Initiative (SAFARI): An introduction. Journal of Geophysical Research, 1996, 101, 23519-23520.	3.3	63
254	A New Look at Aging Aerosols. Science, 2009, 326, 1493-1494.	6.0	63
255	Methylgermanium in natural waters. Nature, 1985, 313, 303-305.	13.7	62
256	Chemical characterization of pollution layers over the tropical Indian Ocean: Signatures of emissions from biomass and fossil fuel burning. Journal of Geophysical Research, 2001, 106, 28497-28510.	3.3	62
257	Nitrous oxide emissions from the Arabian Sea: A synthesis. Atmospheric Chemistry and Physics, 2001, 1, 61-71.	1.9	62
258	Water uptake by biomass burning aerosol at sub- and supersaturated conditions: closure studies and implications for the role of organics. Atmospheric Chemistry and Physics, 2011, 11, 9519-9532.	1.9	62
259	A radiogenic isotope tracer study of transatlantic dust transport from Africa to the Caribbean. Atmospheric Environment, 2014, 82, 130-143.	1.9	62
260	Biogenic NO emissions from forest and pasture soils: Relating laboratory studies to field measurements. Journal of Geophysical Research, 2002, 107, LBA 25-1.	3.3	61
261	The Aegean Sea as a source of atmospheric nitrous oxide and methane. Marine Chemistry, 1996, 53, 41-49.	0.9	60
262	Radiance-based retrieval bias mitigation for the MOPITT instrument: the version 8 product. Atmospheric Measurement Techniques, 2019, 12, 4561-4580.	1.2	60
263	Chemistry of marine aerosol over the tropical and equatorial Pacific. Journal of Geophysical Research, 1986, 91, 8623-8636.	3.3	59
264	Marine sulfur cycling and the atmospheric aerosol over the springtime North Atlantic. Chemosphere, 2003, 52, 1321-1343.	4.2	59
265	230Th/U dating of Last Interglacial brain corals from Bonaire (southern Caribbean) using bulk and theca wall material. Geochimica Et Cosmochimica Acta, 2016, 178, 20-40.	1.6	59
266	Impact of biomass burning aerosols on radiation, clouds, and precipitation over the Amazon: relative importance of aerosolâ€“cloud and aerosolâ€“radiation interactions. Atmospheric Chemistry and Physics, 2020, 20, 13283-13301.	1.9	59
267	The supersaturation of carbonyl sulfide in surface waters of the Pacific Ocean off Peru. Geophysical Research Letters, 1983, 10, 393-396.	1.5	58
268	Non-sea-salt sulfate, methanesulfonate, and nitrate aerosol concentrations and size distributions at Cape Grim, Tasmania. Journal of Geophysical Research, 1999, 104, 21695-21706.	3.3	58
269	Chemical processes in a young biomassâ€burning plume. Journal of Geophysical Research, 2003, 108, .	3.3	58
270	Dimethyl sulfide in the Amazon rain forest. Global Biogeochemical Cycles, 2015, 29, 19-32.	1.9	58

#	Article	IF	Citations
271	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. Atmospheric Chemistry and Physics, 2015, 15, 12211-12229.	1.9	58
272	Further evidence for CCN aerosol concentrations determining the height of warm rain and ice initiation in convective clouds over the Amazon basin. Atmospheric Chemistry and Physics, 2017, 17, 14433-14456.	1.9	58
273	Arsenic in rain and the atmospheric mass balance of arsenic. Journal of Geophysical Research, 1980, 85, 4512-4518.	3.3	57
274	Surface exchange of nitric oxide, nitrogen dioxide, and ozone at a cattle pasture in RondÃ´nia, Brazil. Journal of Geophysical Research, 2002, 107, LBA 51-1.	3.3	57
275	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the landâ€“atmosphereâ€“oceanâ€“society continuum in the northern Eurasian region. Atmospheric Chemistry and Physics, 2016, 16, 14421-14461.	1.9	57
276	Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. ISME Journal, 2019, 13, 1688-1699.	4.4	57
277	Measurements of organic acids over central Germany. Atmospheric Environment, 1989, 23, 1531-1533.	1.1	56
278	Photochemical and non-photochemical formation and destruction of carbonyl sulfide and methyl mercaptan in ocean waters. Marine Chemistry, 1996, 54, 11-26.	0.9	56
279	Photochemical production of carbonyl sulfide in North Sea water: A process study. Limnology and Oceanography, 1997, 42, 432-442.	1.6	56
280	Nitrous oxide cycling in the Arabian Sea. Journal of Geophysical Research, 2001, 106, 1053-1065.	3.3	56
281	Study of the effect of different type of aerosols on UV-B radiation from measurements during EARLINET. Atmospheric Chemistry and Physics, 2004, 4, 307-321.	1.9	56
282	Determination of trace quantities of dimethylsulfoxide in aqueous solutions. Analytical Chemistry, 1980, 52, 150-153.	3.2	55
283	Determination of butyltin compounds in river sediment samples by gas chromatographyâ€“atomic absorption spectrometry following in situ derivatization with sodium tetraethylborate. Journal of Analytical Atomic Spectrometry, 1993, 8, 119-125.	1.6	55
284	Photochemical production and air-sea exchange of carbonyl sulfide in the eastern Mediterranean Sea. Marine Chemistry, 1996, 53, 25-39.	0.9	54
285	Environmentally relevant precursors of carbonyl sulfide in aquatic systems. Marine Chemistry, 1997, 59, 71-85.	0.9	54
286	Physical and chemical characteristics of aerosols over the Negev Desert (Israel) during summer 1996. Journal of Geophysical Research, 2001, 106, 4871-4890.	3.3	54
287	Long-term measurements of aerosol and carbon monoxide at the ZOTTO tall tower to characterize polluted and pristine air in the Siberian taiga. Atmospheric Chemistry and Physics, 2013, 13, 12271-12298.	1.9	54
288	Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. Atmospheric Chemistry and Physics, 2018, 18, 12817-12843.	1.9	54

#	Article	IF	Citations
289	Dissolved arsenic species in the Schelde estuary and watershed, Belgium. Estuarine, Coastal and Shelf Science, 1989, 29, 421-433.	0.9	53
290	Sources of optically active aerosol particles over the Amazon forest. Atmospheric Environment, 2004, 38, 1039-1051.	1.9	53
291	Local and regional contributions to the atmospheric aerosol over Tel Aviv, Israel: a case study using elemental, ionic and organic tracers. Atmospheric Environment, 2004, 38, 1593-1604.	1.9	53
292	Methane airborne measurements and comparison to global models during BARCA. Journal of Geophysical Research, 2012, 117, .	3.3	53
293	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. Nature Communications, 2021, 12, 6416.	5.8	53
294	In-canopy gradients, composition, sources, and optical properties of aerosol over the Amazon forest. Journal of Geophysical Research, 2003, 108, .	3.3	52
295	Diel and seasonal variations in the chemical composition of biomass burning aerosol. Atmospheric Chemistry and Physics, 2006, 6, 3505-3515.	1.9	52
296	The Global Aerosol Synthesis and Science Project (GASSP): Measurements and Modeling to Reduce Uncertainty. Bulletin of the American Meteorological Society, 2017, 98, 1857-1877.	1.7	52
297	Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes. Atmospheric Chemistry and Physics, 2018, 18, 10055-10088.	1.9	52
298	Carbon disulfide in seawater and the marine atmosphere over the North Atlantic. Journal of Geophysical Research, 1987, 92, 14733-14738.	3.3	51
299	Soluble iron nutrients in Saharan dust over the central Amazon rainforest. Atmospheric Chemistry and Physics, 2017, 17, 2673-2687.	1.9	51
300	Seasonal variations of dimethylsulfide emissions and atmospheric sulfur and nitrogen species over the western north Atlantic Ocean. Tellus, Series B: Chemical and Physical Meteorology, 1991, 43, 353-372.	0.8	50
301	Monoterpene chemical speciation in a tropical rainforest:variation with season, height, and time of dayat the Amazon Tall Tower Observatory (ATTO). Atmospheric Chemistry and Physics, 2018, 18, 3403-3418.	1.9	50
302	Domestic biomass burning in rural and urban Zimbabweâ€”Part A. Biomass and Bioenergy, 1997, 12, 53-68.	2.9	49
303	The CO₂ exchange of biological soil crusts in a semiarid grass-shrubland at the northern transition zone of the Negev desert, Israel. Biogeosciences, 2008, 5, 1411-1423.	1.3	49
304	Biomass Burning in the Global Environment: First Results from the IGAC/BIBEX Field Campaign STARE/TRACE-A/SAFARI-92. , 1994, , 83-101.		49
305	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25344-25351.	3.3	49
306	Reduced sulfur compound exchange between the atmosphere and tropical tree species in southern Cameroon. Biogeochemistry, 1993, 23, 23.	1.7	48

#	Article	IF	Citations
307	Changes in surface solar UV irradiances and total ozone during the solar eclipse of August 11, 1999. Journal of Geophysical Research, 2000, 105, 26463-26473.	3.3	48
308	Arsenic, antimony, and germanium biogeochemistry in the Baltic Sea. Tellus, Series B: Chemical and Physical Meteorology, 2022, 36, 101.	0.8	47
309	Clear-sky closure studies of lower tropospheric aerosol and water vapor during ACE-2 using airborne sunphotometer, airborne in-situ, space-borne, and ground-based measurements. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 568.	0.8	47
310	Biofuel availability and domestic use patterns in Kenya. Biomass and Bioenergy, 2001, 20, 71-82.	2.9	47
311	NO emission from an Amazonian rain forest soil: Continuous measurements of NO flux and soil concentration. Journal of Geophysical Research, 2002, 107, LBA 24-1.	3.3	47
312	Non-Rayleigh control of upper-ocean Cd isotope fractionation in the western South Atlantic. Earth and Planetary Science Letters, 2017, 471, 94-103.	1.8	47
313	Decrease in radiative forcing by organic aerosol nucleation, climate, and land use change. Nature Communications, 2019, 10, 423.	5.8	47
314	Sources and sinks of methylgermanium in natural waters. Marine Chemistry, 1989, 27, 179-200.	0.9	46
315	Emissions of organic trace gases from savanna fires in southern Africa during the 1992 Southern African Fire Atmosphere Research Initiative and their impact on the formation of tropospheric ozone. Journal of Geophysical Research, 1997, 102, 18879-18888.	3.3	46
316	Sulfur isotope ratio measurements of individual sulfate particles by NanoSIMS. International Journal of Mass Spectrometry, 2008, 272, 63-77.	0.7	46
317	Sulfur isotope analyses of individual aerosol particles in the urban aerosol at a central European site (Mainz, Germany). Atmospheric Chemistry and Physics, 2008, 8, 7217-7238.	1.9	46
318	Hygroscopic properties of Amazonian biomass burning and European background HULIS and investigation of their effects on surface tension with two models linking H-TDMA to CCNC data. Atmospheric Chemistry and Physics, 2010, 10, 5625-5639.	1.9	46
319	Evidence for a winter sink of atmospheric carbonyl sulfide in the northeast Atlantic Ocean. Geophysical Research Letters, 1995, 22, 2601-2604.	1.5	45
320	Nitrous oxide in the deep waters of the world's oceans. Global Biogeochemical Cycles, 1999, 13, 1127-1135.	1.9	45
321	A convective kinematic trajectory technique for low-resolution atmospheric models. Journal of Geophysical Research, 2000, 105, 24375-24386.	3.3	45
322	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. Environmental Science & Technology, 2019, 53, 12506-12518.	4.6	45
323	New particle formation in the remote marine boundary layer. Nature Communications, 2021, 12, 527.	5.8	45
324	Determination of methanesulfonic acid and non-sea-salt sulfate in single marine aerosol particles. Environmental Science & Technology, 1989, 23, 236-240.	4.6	44

#	Article	IF	Citations
325	Global distribution of fires seen from space. Eos, 1993, 74, 129-135.	0.1	44
326	Chemical composition, microstructure, and hygroscopic properties of aerosol particles at the Zotino Tall Tower Observatory (ZOTTO), Siberia, during a summer campaign. Atmospheric Chemistry and Physics, 2015, 15, 8847-8869.	1.9	44
327	Lead isotope variability in speleothemsâ€"A promising new proxy for hydrological change? First results from a stalagmite from western Germany. Chemical Geology, 2015, 396, 143-151.	1.4	44
328	Comparison of different Aethalometer correction schemes and a reference multi-wavelength absorption technique for ambient aerosol data. Atmospheric Measurement Techniques, 2017, 10, 2837-2850.	1.2	44
329	Atmospheric and precipitation chemistry over the North Atlantic Ocean: Shipboard results, Aprilâ€"May 1984. Journal of Geophysical Research, 1991, 96, 18705-18725.	3.3	43
330	Interrelationships between aerosol characteristics and light scattering during late winter in an Eastern Mediterranean arid environment. Journal of Geophysical Research, 1999, 104, 24371-24393.	3.3	43
331	Abrupt Changes: The Achilles' Heels of the Earth System. Environment, 2004, 46, 8-20.	0.8	43
332	Clear-sky closure studies of lower tropospheric aerosol and water vapor during ACE-2 using airborne sunphotometer, airborne in-situ, space-borne, and ground-based measurements. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 568-593.	0.8	42
333	STAAARTE-MED 1998 summer airborne measurements over the Aegean Sea 1. Aerosol particles and trace gases. Journal of Geophysical Research, 2002, 107, AAC 1-1-AAC 1-15.	3.3	42
334	Chemical characterization of submicron aerosol particles collected over the Indian Ocean. Journal of Geophysical Research, 2002, 107, INDX2 4-1.	3.3	42
335	The cadmiumâ€"phosphate relationship in the western South Atlantic â€" The importance of mode and intermediate waters on the global systematics. Marine Chemistry, 2015, 177, 110-123.	0.9	42
336	Modeling investigation of light-absorbing aerosols in the Amazon Basin during the wet season. Atmospheric Chemistry and Physics, 2016, 16, 14775-14794.	1.9	42
337	Land cover and its transformation in the backward trajectory footprint region of the Amazon Tall Tower Observatory. Atmospheric Chemistry and Physics, 2019, 19, 8425-8470.	1.9	41
338	Nitrous oxide emissions from the Arabian Sea. Geophysical Research Letters, 1996, 23, 3175-3178.	1.5	40
339	An overview of the Lagrangian experiments undertaken during the North Atlantic regional Aerosol Characterisation Experiment (ACE-2). Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 290.	0.8	40
340	Intercomparison of Two Box Models of the Chemical Evolution in Biomass-Burning Smoke Plumes. Journal of Atmospheric Chemistry, 2006, 55, 273-297.	1.4	40
341	An airborne regional carbon balance for Central Amazonia. Biogeosciences, 2007, 4, 759-768.	1.3	40
342	Modelling the optical properties of fresh biomass burning aerosol produced in a smoke chamber: results from the EFEU campaign. Atmospheric Chemistry and Physics, 2008, 8, 3427-3439.	1.9	40

#	Article	IF	Citations
343	The Aerosol Nucleation Puzzle. Science, 2013, 339, 911-912.	6.0	40
344	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. Atmospheric Chemistry and Physics, 2020, 20, 4757-4785.	1.9	40
345	The scientific basis for a satellite mission to retrieve CCN concentrations and their impacts on convective clouds. Atmospheric Measurement Techniques, 2012, 5, 2039-2055.	1.2	39
346	Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. Atmospheric Chemistry and Physics, 2018, 18, 14979-15001.	1.9	39
347	Spatial gradients in ratios of atmospheric trace gases: a study stimulated by experiments on bird navigation. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 1138-1157.	0.8	38
348	Spatial and temporal distribution of atmospheric aerosols in the lowermost troposphere over the Amazonian tropical rainforest. Atmospheric Chemistry and Physics, 2005, 5, 1527-1543.	1.9	38
349	A new look at the role of fire-released moisture on the dynamics of atmospheric pyro-convection. International Journal of Wildland Fire, 2009, 18, 554.	1.0	38
350	COS and H2S fluxes over a wet meadow in relation to photosynthetic activity: An analysis of measurements made on 6 September 1990. Atmospheric Environment Part A General Topics, 1993, 27, 1851-1864.	1.3	37
351	Biogenic sulfur emissions and aerosols over the tropical South Atlantic: 2. One-dimensional simulation of sulfur chemistry in the marine boundary layer. Journal of Geophysical Research, 1995, 100, 11323.	3.3	37
352	Aerosol particle number size distributions and particulate light absorption at the ZOTTO tall tower (Siberia), 2006â€“2009. Atmospheric Chemistry and Physics, 2011, 11, 8703-8719.	1.9	37
353	Toward a chemical reanalysis in a coupled chemistryâ€climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7310-7343.	1.2	37
354	Atmospheric mixing ratios of methyl ethyl ketone (2-butanone) in tropical, boreal, temperate and marine environments. Atmospheric Chemistry and Physics, 2016, 16, 10965-10984.	1.9	37
355	Sensitivities of Amazonian clouds to aerosols and updraft speed. Atmospheric Chemistry and Physics, 2017, 17, 10037-10050.	1.9	37
356	Additional global climate cooling by clouds due to ice crystal complexity. Atmospheric Chemistry and Physics, 2018, 18, 15767-15781.	1.9	37
357	Do organics contribute to small particle formation in the Amazonian upper troposphere?. Geophysical Research Letters, 2008, 35, .	1.5	36
358	Diversity and seasonal dynamics of airborne archaea. Biogeosciences, 2014, 11, 6067-6079.	1.3	36
359	Global cycling and climate effects of aeolian dust controlled by biological soil crusts. Nature Geoscience, 2022, 15, 458-463.	5.4	36
360	Sulfur gases and aerosols in and above the equatorial African rain forest. Journal of Geophysical Research, 1992, 97, 6207-6217.	3.3	35

#	Article	IF	Citations
361	The role of semi-volatile organic compounds in the mesoscale evolution of biomass burning aerosol: a modeling case study of the 2010 mega-fire event in Russia. Atmospheric Chemistry and Physics, 2015, 15, 13269-13297.	1.9	35
362	Hydroxylamine released by nitrifying microorganisms is a precursor for HONO emission from drying soils. Scientific Reports, 2018, 8, 1877.	1.6	35
363	A review of the biogeochemistry of germanium in natural waters. Science of the Total Environment, 1988, 73, 107-120.	3.9	34
364	Spatial gradients in ratios of atmospheric trace gases: a study stimulated by experiments on bird navigation. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 1138.	0.8	34
365	Distribution and airâ€“sea gas exchange of dimethyl sulphide at the European western continental margin. Marine Chemistry, 2000, 69, 277-300.	0.9	34
366	Probing into the aging dynamics of biomass burning aerosol by using satellite measurements of aerosol optical depth and carbon monoxide. Atmospheric Chemistry and Physics, 2017, 17, 4513-4537.	1.9	34
367	Overview: Precipitation characteristics and sensitivities to environmental conditions during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Chemistry and Physics, 2018, 18, 6461-6482.	1.9	34
368	Methane in surface waters of the Arabian Sea. Geophysical Research Letters, 1998, 25, 3547-3550.	1.5	33
369	Soluble ion chemistry of the atmospheric aerosol and SO₂ concentrations over the eastern North Atlantic during ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 1066.	0.8	33
370	Dark production: A significant source of oceanic COS. Journal of Geophysical Research, 2001, 106, 31217-31226.	3.3	33
371	Carbon monoxide and nitric oxide from biofuel fires in Kenya. Energy Conversion and Management, 2001, 42, 1517-1542.	4.4	33
372	Bromide content of sea-salt aerosol particles collected over the Indian Ocean during INDOEX 1999. Journal of Geophysical Research, 2002, 107, INX2 31-1.	3.3	33
373	Laboratory measurements of smoke optical properties from the burning of Indonesian peat and other types of biomass. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	33
374	A novel single-cavity three-wavelength photoacoustic spectrometer for atmospheric aerosol research. Atmospheric Measurement Techniques, 2016, 9, 5331-5346.	1.2	33
375	Long-term measurements (2010â€“2014) of carbonaceous aerosol and carbon monoxide at the Zotino Tall Tower Observatory (ZOTTO) in central Siberia. Atmospheric Chemistry and Physics, 2017, 17, 14365-14392.	1.9	33
376	Determination of acrylic acid in aqueous samples by electron capture gas chromatography after extraction with tri-n-octylphosphine oxide and derivatization with pentafluorobenzyl bromide. Analytical Chemistry, 1986, 58, 2684-2687.	3.2	32
377	Refractory arsenic species in estuarine waters. Applied Organometallic Chemistry, 1991, 5, 111-116.	1.7	32
378	Measurement of sulfur isotope ratios in micrometer-sized samples by NanoSIMS. Applied Surface Science, 2006, 252, 7128-7131.	3.1	32

#	Article	IF	Citations
379	Deriving Global Quantitative Estimates for Spatial and Temporal Distributions of Biomass Burning Emissions. Advances in Global Change Research, 2004, , 71-113.	1.6	32
380	Ozone production and transport over the Amazon Basin during the dry-to-wet and wet-to-dry transition seasons. Atmospheric Chemistry and Physics, 2015, 15, 757-782.	1.9	31
381	Chemical and stable isotope composition of the high grade metamorphic rocks from the Arendal area, Southern Norway. Contributions To Mineralogy and Petrology, 1974, 47, 299-316.	1.2	30
382	Dimethyl sulfide over the western Atlantic Ocean. Geophysical Research Letters, 1987, 14, 715-718.	1.5	30
383	Hydrogen sulfide and radon in and over the western North Atlantic Ocean. Journal of Geophysical Research, 1991, 96, 18753-18760.	3.3	30
384	Comparing parameterized versus measured microphysical properties of tropical convective cloud bases during the ACRIDICONâ€“CHUVA campaign. Atmospheric Chemistry and Physics, 2017, 17, 7365-7386.	1.9	30
385	Elemental Mixing State of Aerosol Particles Collected in Central Amazonia during GoAmazon2014/15. Atmosphere, 2017, 8, 173.	1.0	30
386	Transport of Trace Metals in Marine Food Chains. , 1984, , 143-167.		30
387	Spatial and temporal variation in domestic biofuel consumption rates and patterns in Zimbabwe: implications for atmospheric trace gas emission. Biomass and Bioenergy, 1999, 16, 311-332.	2.9	29
388	Assessment of the regional atmospheric impact of wildfire emissions based on CO observations at the ZOTTO tall tower station in central Siberia. Journal of Geophysical Research, 2011, 116, .	3.3	29
389	Impact of the Manaus urban plume on trace gas mixing ratios near the surface in the Amazon Basin: Implications for the NOâ€NO₂â€O₃ photostationary state and peroxy radical levels. Journal of Geophysical Research, 2012, 117, .	3.3	29
390	Estimation of black carbon emissions from Siberian fires using satellite observations of absorption and extinction optical depths. Atmospheric Chemistry and Physics, 2018, 18, 14889-14924.	1.9	29
391	Seasonal variations of dimethylsulfide emissions and atmospheric sulfur and nitrogen species over the western north Atlantic Ocean. Tellus, Series B: Chemical and Physical Meteorology, 2022, 43, 353.	0.8	28
392	Carbon disulfide in the estuarine, coastal, and oceanic environments. Marine Chemistry, 1992, 40, 179-197.	0.9	28
393	An intercomparison of instrumentation for tropospheric measurements of dimethyl sulfide: Aircraft results for concentrations at the partsâ€perâ€trillion level. Journal of Geophysical Research, 1993, 98, 23373-23388.	3.3	28
394	Airborne measurements of savanna fire emissions and the regional distributio of pyrogenic pollutants over Western Africa. Journal of Atmospheric Chemistry, 1995, 22, 217-239.	1.4	28
395	Soluble ion chemistry of the atmospheric aerosol and SO2 concentrations over the eastern North Atlantic during ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 1066-1087.	0.8	28
396	Atmospheric aerosols versus greenhouse gases in the twenty-first century. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1915-1923.	1.6	28

#	Article	IF	Citations
397	Ostracod shell chemistry as proxy for paleoenvironmental change. Quaternary International, 2013, 313-314, 17-37.	0.7	28
398	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. National Science Review, 2021, 8, nwaa132.	4.6	28
399	Carbonyl Sulfide (COS) in the Surface Ocean and the Atmospheric COS Budget. , 1997, 3, 283-303.		27
400	Biomass burning in Amazonia: Emissions, long-range transport of smoke and its regional and remote impacts. Geophysical Monograph Series, 2009, , 207-232.	0.1	27
401	Insights into microbial involvement in desert varnish formation retrieved from metagenomic analysis. Environmental Microbiology Reports, 2018, 10, 264-271.	1.0	27
402	Tropical and Boreal Forest â€“ Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24.	0.8	27
403	Sulphate aerosols and climate. Nature, 1989, 340, 437-438.	13.7	26
404	Efficiency of tributyltin extraction from rhine river sediment. Mikrochimica Acta, 1992, 109, 67-71.	2.5	26
405	Determination of butyltin compounds in sediments using an improved aqueous ethylation method. Talanta, 1994, 41, 589-594.	2.9	26
406	An overview of the Lagrangian experiments undertaken during the North Atlantic regional Aerosol Characterisation Experiment (ACE-2). Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 290-320.	0.8	26
407	â€œMissingâ€•cloud condensation nuclei in peat smoke. Geophysical Research Letters, 2005, 32, .	1.5	26
408	Technical Note: Characterization of a static thermal-gradient CCN counter. Atmospheric Chemistry and Physics, 2007, 7, 3071-3080.	1.9	26
409	Infrequent occurrence of new particle formation at a semi-rural location, Gadanki, in tropical Southern India. Atmospheric Environment, 2014, 94, 264-273.	1.9	26
410	Distribution of Biogenic Sulfur Compounds in the Remote Southern Hemisphere. ACS Symposium Series, 1989, , 352-366.	0.5	25
411	Measurements of dimethyl sulfide and H₂S over the western North Atlantic and the tropical Atlantic. Journal of Geophysical Research, 1993, 98, 23389-23396.	3.3	25
412	Derivation of the Density and Refractive Index of Organic Matter and Elemental Carbon from Closure between Physical and Chemical Aerosol Properties. Environmental Science & Technology, 2009, 43, 1166-1172.	4.6	25
413	Natural volatile organic compound emissions from plants and their roles in oxidant balance and particle formation. Geophysical Monograph Series, 2009, , 183-206.	0.1	25
414	Evaluation of the carbon content of aerosols from the burning of biomass in the Brazilian Amazon using thermal, optical and thermal-optical analysis methods. Atmospheric Chemistry and Physics, 2011, 11, 4425-4444.	1.9	25

#	Article	IF	Citations
415	Dust specific extinction cross-sections over the Eastern Mediterranean using the BSC-DREAM model and sun photometer data: the case of urban environments. Annales Geophysicae, 2009, 27, 2903-2912.	0.6	25
416	PIXE analysis of marine aerosol samples: Accuracy and artifacts. Nuclear Instruments & Methods in Physics Research B, 1987, 22, 248-253.	0.6	24
417	Combined application of INAA and PIXE for studying the regional aerosol composition in Southern Africa. Journal of Radioanalytical and Nuclear Chemistry, 1997, 216, 143-148.	0.7	24
418	Study of tropical organic aerosol by thermally assisted alkylation-gas chromatography mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 351-369.	2.6	24
419	Evidence for large-scale transport of biomass burning aerosols from sunphotometry at a remote South African site. Atmospheric Environment, 2008, 42, 5569-5578.	1.9	24
420	Water vapor release from biomass combustion. Atmospheric Chemistry and Physics, 2008, 8, 6147-6153.	1.9	24
421	Efflorescence upon humidification? Xâ€ray microspectroscopic in situ observation of changes in aerosol microstructure and phase state upon hydration. Geophysical Research Letters, 2014, 41, 3681-3689.	1.5	24
422	Insights into the aging of biomass burning aerosol from satellite observations and 3D atmospheric modeling: evolution of the aerosol optical properties in Siberian wildfire plumes. Atmospheric Chemistry and Physics, 2021, 21, 357-392.	1.9	24
423	Marine carbonyl sulfide (OCS) and carbon disulfide (CS₂): a compilation of measurements in seawater and the marine boundary layer. Earth System Science Data, 2020, 12, 591-609.	3.7	24
424	Vertical profiles of ozone between 0 and 400 meters in and above the African equatorial forest. Journal of Geophysical Research, 1992, 97, 12877-12887.	3.3	23
425	Chapter 1 Impacts of Vegetation Fire Emissions on the Environment, Human Health, and Security: A Global Perspective. Developments in Environmental Science, 2008, 8, 3-36.	0.5	23
426	BAMâ€5005 Type A and B: New Silicate Reference Glasses for Microanalysis. Geostandards and Geoanalytical Research, 2012, 36, 301-313.	1.7	23
427	MAX-DOAS observations of the total atmospheric water vapour column and comparison with independent observations. Atmospheric Measurement Techniques, 2013, 6, 131-149.	1.2	23
428	Assessment of cloud supersaturation by size-resolved aerosol particle and cloud condensation nuclei (CCN) measurements. Atmospheric Measurement Techniques, 2014, 7, 2615-2629.	1.2	23
429	Single-particle characterization of aerosols collected at a remote site in the Amazonian rainforest and an urban site in Manaus, Brazil. Atmospheric Chemistry and Physics, 2019, 19, 1221-1240.	1.9	23
430	Brown carbon from biomass burning imposes strong circum-Arctic warming. One Earth, 2022, 5, 293-304.	3.6	23
431	Geochemistry of tin in rivers and estuaries. Geochimica Et Cosmochimica Acta, 1986, 50, 835-845.	1.6	22
432	A pilot study of methyl chloride emissions from tropical woodrot fungi. Chemosphere, 2005, 58, 221-225.	4.2	22

#	Article	IF	Citations
433	Microanalytical methods for in-situ high-resolution analysis of rock varnish at the micrometer to nanometer scale. Chemical Geology, 2015, 411, 57-68.	1.4	22
434	Aerosol Chemistry Resolved by Mass Spectrometry: Linking Field Measurements of Cloud Condensation Nuclei Activity to Organic Aerosol Composition. Environmental Science & Technology, 2016, 50, 10823-10832.	4.6	22
435	Changing Biogeochemical Cycles. , 1984, , 359-373.		22
436	Light element composition of the atmospheric aerosol at Cape Grim (Tasmania) and Townsville (Queensland) by PIXE and PESA. Nuclear Instruments & Methods, 1981, 181, 383-390.	1.2	21
437	Determination of carbon disulfide in natural waters by adsorbent preconcentration and gas chromatography with flame photometric detection. Analytical Chemistry, 1987, 59, 2670-2673.	3.2	21
438	Processes controlling dimethylsulfide over the ocean: Case studies using a 3-D model driven by assimilated meteorological fields. Journal of Geophysical Research, 1998, 103, 8341-8353.	3.3	21
439	Boundary layer and aerosol evolution during the 3rd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 401.	0.8	21
440	Black manganese-rich crusts on a Gothic cathedral. Atmospheric Environment, 2017, 171, 205-220.	1.9	21
441	Nonlinear behavior of organic aerosol in biomass burning plumes: a microphysical model analysis. Atmospheric Chemistry and Physics, 2019, 19, 12091-12119.	1.9	21
442	Ozone production due to emissions from vegetation burning. Journal of Atmospheric Chemistry, 1995, 22, 163-174.	1.4	20
443	Comparing forward and inverse models to estimate the seasonal variation of hemisphere-integrated fluxes of carbonyl sulfide. Atmospheric Chemistry and Physics, 2002, 2, 343-361.	1.9	20
444	Spatial and temporal variations of aerosols around Beijing in summer 2006: 2. Local and column aerosol optical properties. Journal of Geophysical Research, 2010, 115, .	3.3	20
445	Investigation of matrix effects in 193nm laser ablation-inductively coupled plasma-mass spectrometry analysis using reference glasses of different transparencies. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 78, 20-28.	1.5	20
446	3-D model simulations of dynamical and microphysical interactions in pyroconvective clouds under idealized conditions. Atmospheric Chemistry and Physics, 2014, 14, 7573-7583.	1.9	20
447	Determination of Methyltin and Butyltin Compounds in Environmental Water and Sediment Samples. International Journal of Environmental Analytical Chemistry, 1991, 45, 257-273.	1.8	19
448	An intercomparison of aircraft instrumentation for tropospheric measurements of carbonyl sulfide, hydrogen sulfide, and carbon disulfide. Journal of Geophysical Research, 1993, 98, 23353-23372.	3.3	19
449	Measurements of aerosol optical depth above 3570 m asl in the North Atlantic free troposphere: results from ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 678-693.	0.8	19
450	Detection of lightning-produced NO in the midlatitude upper troposphere during STREAM 1998. Journal of Geophysical Research, 2001, 106, 27777-27785.	3.3	19

#	Article	IF	Citations
451	Comprehensive mapping and characteristic regimes of aerosol effects on the formation and evolution of pyro-convective clouds. Atmospheric Chemistry and Physics, 2015, 15, 10325-10348.	1.9	19
452	Wholeâ€Ocean Changes in Silica and Ge/Si Ratios During the Last Deglacial Deduced From Longâ€Lived Giant Glass Sponges. Geophysical Research Letters, 2017, 44, 11,555.	1.5	19
453	Biomass Burning in the Tropics: Impact on Environmental Quality and Global Climate. Population and Development Review, 1990, 16, 268.	1.2	18
454	Carbonyl sulphide in and over seawater: summer data from the northeast Atlantic Ocean. Atmospheric Environment, 1999, 33, 3503-3514.	1.9	18
455	Evolution of the aerosol, cloud and boundary-layer dynamic and thermodynamic characteristics during the 2nd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 375-400.	0.8	18
456	Role of aerosol size and composition in nucleation scavenging within clouds in a shallow cold front. Journal of Geophysical Research, 2003, 108, .	3.3	18
457	Photochemical and physical modeling of carbonyl sulfide in the ocean. Journal of Geophysical Research, 2003, 108, .	3.3	18
458	Aerosol particles in Amazonia: Their composition, role in the radiation balance, cloud formation, and nutrient cycles. Geophysical Monograph Series, 2009, , 233-250.	0.1	18
459	Observations of the evolution of the aerosol, cloud and boundary-layer characteristics during the 1st ACE-2 Lagrangian experiment. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 348-374.	0.8	17
460	Composition and sources of aerosol in a central African rain forest during the dry season. Journal of Geophysical Research, 2001, 106, 14423-14434.	3.3	17
461	Small-scale mixing processes enhancing troposphere-to-stratosphere transport by pyro-cumulonimbus storms. Atmospheric Chemistry and Physics, 2007, 7, 5945-5957.	1.9	17
462	Effect of sea breeze circulation on aerosol mixing state and radiative properties in a desert setting. Atmospheric Chemistry and Physics, 2017, 17, 11331-11353.	1.9	17
463	Exchange of carbonyl sulfide (OCS) between soils and atmosphere under various CO₂ concentrations. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1343-1358.	1.3	17
464	The Determination of the Chemical Species of Some of the â€œHydride Elementsâ€•(Arsenic, Antimony, Tin) Tj ETQq0 0 0 rgBT /Overloc		16
465	Behavior of atmospheric formic and acetic acid in the presence of hydrometeors. Journal of Atmospheric Chemistry, 1992, 15, 101-115.	1.4	16
466	Observations of the evolution of the aerosol, cloud and boundary-layer characteristics during the 1st ACE-2 Lagrangian experiment. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 348.	0.8	16
467	Evolution of the aerosol, cloud and boundary-layer dynamic and thermodynamic characteristics during the 2nd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 375.	0.8	16
468	Three-dimensional solar radiation effects on the actinic flux field in a biomass-burning plume. Journal of Geophysical Research, 2003, 108, .	3.3	16

#	Article	IF	Citations
469	Influence of energetic wind and waves on gas transfer in a large windâ€“wave tunnel facility. Journal of Geophysical Research, 2007, 112, .	3.3	16
470	Nighttime wind and scalar variability within and above an Amazonian canopy. Atmospheric Chemistry and Physics, 2018, 18, 3083-3099.	1.9	16
471	African volcanic emissions influencing atmospheric aerosols over the Amazon rain forest. Atmospheric Chemistry and Physics, 2018, 18, 10391-10405.	1.9	16
472	Growth of desert varnish on petroglyphs from Jubbah and Shuwaymis, Haâ€™il region, Saudi Arabia. Holocene, 2018, 28, 1495-1511.	0.9	16
473	Speleothem Î´¹³C record suggests enhanced spring/summer drought in south-eastern Spain between 9.7 and 7.8 ka â€“ A circum-Western Mediterranean anomaly?. Holocene, 2019, 29, 1113-1133.	0.9	16
474	Occurrence and growth of sub-50â€‰nm aerosol particles in the Amazonian boundary layer. Atmospheric Chemistry and Physics, 2022, 22, 3469-3492.	1.9	16
475	PIXE analysis of cascade impactor samples collected at the Kruger National Park, South Africa. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 849-855.	0.6	15
476	Chemistry and aerosols in the marine boundary layer: 1-D modelling of the three ACE-2 Lagrangian experiments. Atmospheric Environment, 2000, 34, 5079-5094.	1.9	15
477	Modelling the transport of aerosols during INDOEX 1999 and comparison with experimental data. Part 2: Continental aerosols and their optical depth. Atmospheric Environment, 2004, 38, 1823-1837.	1.9	15
478	Modelling the transport of aerosols during indoex 1999 and comparison with experimental dataâ€”1: carbonaceous aerosol distribution. Atmospheric Environment, 2004, 38, 1811-1822.	1.9	15
479	CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. Bulletin of the American Meteorological Society, 2013, 94, 685-694.	1.7	15
480	A new technique to determine element amounts down to femtograms in dust using femtosecond laser ablation-inductively coupled plasma-mass spectrometry. Chemical Geology, 2014, 383, 123-131.	1.4	15
481	Comparative analysis of hygroscopic properties of atmospheric aerosols at ZOTTO Siberian background station during summer and winter campaigns of 2011. Izvestiya - Atmospheric and Oceanic Physics, 2015, 51, 512-519.	0.2	15
482	FeMnOx-1: A new microanalytical reference material for the investigation of Mnâ€“Fe rich geological samples. Chemical Geology, 2016, 432, 34-40.	1.4	15
483	Satellite-Based Analysis of CO Seasonal and Interannual Variability Over the Amazon Basin. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5641-5656.	1.2	15
484	The diel cycle of carbonyl sulfide in marine surface waters: Field study results and a simple model. Aquatic Geochemistry, 1997, 2, 313-344.	1.5	14
485	Automated in situ analysis of volatile sulfur gases using a Sulfur Gas Analyser (SUGAR) based on cryogenic trapping and gas-chromatographic separation. International Journal of Environmental Analytical Chemistry, 2008, 88, 303-315.	1.8	14
486	In situ230Thâ€“232Thâ€“234Uâ€“238U analysis of silicate glasses and carbonates using laser ablation single-collector sector-field ICP-MS. Journal of Analytical Atomic Spectrometry, 2010, 25, 1895.	1.6	14

#	Article	IF	Citations
487	Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. Atmospheric Chemistry and Physics, 2017, 17, 9049-9066.	1.9	14
488	Rock varnish on petroglyphs from the Hima region, southwestern Saudi Arabia: Chemical composition, growth rates, and tentative ages. Holocene, 2019, 29, 1377-1395.	0.9	14
489	Aerosol measurement methods to quantify spore emissions from fungi and cryptogamic covers in the Amazon. Atmospheric Measurement Techniques, 2020, 13, 153-164.	1.2	14
490	Elevated dust layers inhibit dissipation of heavy anthropogenic surface air pollution. Atmospheric Chemistry and Physics, 2020, 20, 14917-14932.	1.9	14
491	Deposition of acetonitrile to the Atlantic Ocean off Namibia and Angola and its implications for the atmospheric budget of acetonitrile. Geophysical Research Letters, 2003, 30, .	1.5	13
492	Uncovering prokaryotic biodiversity within aerosols of the pristine Amazon forest. Science of the Total Environment, 2019, 688, 83-86.	3.9	13
493	Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California. PLoS ONE, 2020, 15, e0235421.	1.1	13
494	Influence of seasonality on the aerosol microbiome of the Amazon rainforest. Science of the Total Environment, 2021, 760, 144092.	3.9	13
495	Planetary boundary layer evolution over the Amazon rainforest in episodes of deep moist convection at the Amazon Tall Tower Observatory. Atmospheric Chemistry and Physics, 2020, 20, 15-27.	1.9	13
496	Inferring the absorption properties of organic aerosol in Siberian biomass burning plumes from remote optical observations. Atmospheric Measurement Techniques, 2021, 14, 6647-6673.	1.2	13
497	Airborne observations of dry particle absorption and scattering properties over the northern Indian Ocean. Journal of Geophysical Research, 2002, 107, INX2 34-1.	3.3	12
498	Mapping the aerosol over Eurasia from the Zotino Tall Tower. Tellus, Series B: Chemical and Physical Meteorology, 2013, 65, 20062.	0.8	12
499	Trace element variability in single ostracod valves as a proxy for hydrochemical change in Nam Co, central Tibet, during the Holocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 399, 225-235.	1.0	12
500	Studying seasonal variations in carbonaceous aerosol particles in the atmosphere over central Siberia. Izvestiya - Atmospheric and Oceanic Physics, 2015, 51, 423-430.	0.2	12
501	In-situ high spatial resolution LA-MC-ICPMS 230 Th/U dating enables detection of small-scale age inversions in speleothems. Solid Earth Sciences, 2017, 2, 1-9.	0.8	12
502	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684.	1.2	12
503	Geochemical insights into the relationship of rock varnish and adjacent mineral dust fractions. Chemical Geology, 2020, 551, 119775.	1.4	12
504	Bioaerosols in the Amazon rain forest: temporal variations and vertical profiles of Eukarya, Bacteria, and Archaea. Biogeosciences, 2021, 18, 4873-4887.	1.3	12

#	Article	IF	Citations
505	PIXE analysis of cascade impactor samples collected over the Pacific. Nuclear Instruments & Methods in Physics Research B, 1984, 3, 446-450.	0.6	11
506	Boundary layer and aerosol evolution during the 3rd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 401-422.	0.8	11
507	Comparing airborne and satellite retrievals of cloud optical thickness and particle effective radius using a spectral radiance ratio technique: two case studies for cirrus and deep convective clouds. Atmospheric Chemistry and Physics, 2018, 18, 4439-4462.	1.9	11
508	Surfaceâ€“atmosphere exchange of inorganic water-soluble gases and associated ions in bulk aerosol above agricultural grassland pre- and postfertilisation. Atmospheric Chemistry and Physics, 2018, 18, 16953-16978.	1.9	11
509	Sources and Nature of Atmospheric Aerosols. , 2009, , 45-89.		11
510	Ecophysiology of Ice Algae (Antarctica): Dimethylsulfoniopropionate Content and Release of Dimethylsulfide during Ice Melt. , 1993, , 23-36.		11
511	Concentrations and fluxes of tin in aerosols and rain. Atmospheric Environment, 1986, 20, 931-939.	1.1	10
512	Aerosol Inorganic Composition at a Tropical Site: Discrepancies Between Filter-Based Sampling and a Semi-Continuous Method. Aerosol Science and Technology, 2008, 42, 255-269.	1.5	10
513	Microclimatic conditions and water content fluctuations experienced by epiphytic bryophytes in an Amazonian rain forest. Biogeosciences, 2020, 17, 5399-5416.	1.3	10
514	Highly oxygenated organic molecules with high unsaturation formed upon photochemical aging of soot. CheM, 2022, 8, 2688-2699.	5.8	10
515	Seasonal variations of dimethylsulfide emissions and atmospheric sulfur and nitrogen species over the western north Atlantic Ocean. Tellus, Series B: Chemical and Physical Meteorology, 1991, 43, 353-372.	0.8	9
516	Greenhouse Gases in Cold Water Filaments in the Arabian Sea During the Southwest Monsoon. Die Naturwissenschaften, 1999, 86, 489-491.	0.6	9
517	Tandem configuration of differential mobility and centrifugal particle mass analysers for investigating aerosol hygroscopic properties. Atmospheric Measurement Techniques, 2017, 10, 1269-1280.	1.2	9
518	Archaeometric studies on the petroglyphs and rock varnish at Kilwa and Sakaka, northern Saudi Arabia. Arabian Archaeology and Epigraphy, 2020, 31, 219-244.	0.2	9
519	The Production of Methylated Sulfur Compounds by Marine Phytoplankton. , 1980, , 253-259.		9
520	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China â€“ a Pan-Eurasian Experiment (PEEX) programme perspective. Atmospheric Chemistry and Physics, 2022, 22, 4413-4469.	1.9	9
521	Dissolved and particulate tin in North Atlantic seawater. Marine Chemistry, 1986, 19, 193-200.	0.9	8
522	Cryogenic Trapping of Carbonyl Sulfide without Using Expendable Cryogens. Analytical Chemistry, 2000, 72, 5513-5515.	3.2	8

#	Article	IF	Citations
523	Surface features on Sahara soil dust particles made visible by atomic force microscope (AFM) phase images. Atmospheric Measurement Techniques, 2008, 1, 1-8.	1.2	8
524	Illustration of microphysical processes in Amazonian deep convective clouds in the gamma phase space: introduction and potential applications. Atmospheric Chemistry and Physics, 2017, 17, 14727-14746.	1.9	8
525	Improved constraints on open-system processes in fossil reef corals by combined Th/U, Pa/U and Ra/Th dating: A case study from Aqaba, Jordan. Geochimica Et Cosmochimica Acta, 2019, 245, 459-478.	1.6	8
526	The CO₂ record at the Amazon Tall Tower Observatory: A new opportunity to study processes on seasonal and interâ€annual scales. Global Change Biology, 2022, 28, 588-611.	4.2	8
527	Chemical Species in Seawater and Marine Particulates. , 1986, , 301-335.		7
528	EvidÃªncia observacional das brisas do lago de Balbina (Amazonas) e seus efeitos sobre a concentraÃ§Ã£o do ozÃ´nio. Acta Amazonica, 2004, 34, 605-611.	0.3	7
529	Suitability of Mnâ€•and Feâ€Rich Reference Materials for Microanalytical Research. Geostandards and Geoanalytical Research, 2016, 40, 493-504.	1.7	7
530	230Th/U-dating of carbonate deposits from ancient aqueducts. Quaternary Geochronology, 2016, 32, 40-52.	0.6	7
531	Concentrations and biosphereâ€“atmosphere fluxes of inorganic trace gases and associated ionic aerosol counterparts over the Amazon rainforest. Atmospheric Chemistry and Physics, 2020, 20, 15551-15584.	1.9	7
532	Frequent new particle formation at remote sites in the subboreal forest of North America. Atmospheric Chemistry and Physics, 2022, 22, 2487-2505.	1.9	7
533	How weather events modify aerosol particle size distributions in the Amazon boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 18065-18086.	1.9	7
534	New Speciation Approaches in the Biogeochemical Cycles of Organometallics in the Environment. International Journal of Environmental Analytical Chemistry, 1992, 49, 43-48.	1.8	6
535	Biomass burning in Africa: role in atmospheric change and opportunities for emission mitigation. , 2005, , 79-89.		6
536	Biomass Burning in the Tropics: Impact on Atmospheric Chemistry and Biogeochemical Cycles. SpringerBriefs on Pioneers in Science and Practice, 2016, , 165-188.	0.2	6
537	Deposition of Organic Anions at a Semi-Rural Site in Central Europe. , 1989, , 111-118.		6
538	Evolution of boundary-layer aerosol particles due to in-cloud chemical reactions during the 2nd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 452.	0.8	6
539	Corrigendum to: â€œReal-time measurements of ammonia, acidic trace gases and water-soluble inorganic aerosol species at a rural site in the Amazon Basin" published in Atmos. Chem. Phys., 4, 967â€“987, 2004. Atmospheric Chemistry and Physics, 2005, 5, 3451-3453.	1.9	5
540	Linking trace gas measurements and molecular tracers of organic matter in aerosols for identification of ecosystem sources and types of wildfires in Central Siberia. IOP Conference Series: Earth and Environmental Science, 2016, 48, 012017.	0.2	5

#	Article	IF	Citations
541	Chemical separation and MC-ICPMS analysis of U, Th, Pa and Ra isotope ratios of carbonates. Journal of Analytical Atomic Spectrometry, 2018, 33, 1372-1383.	1.6	5
542	A Complex Approach for the Estimation of Carbonaceous Emissions from Wildfires in Siberia. Russian Meteorology and Hydrology, 2018, 43, 295-301.	0.2	5
543	MIMiX: a Multipurpose In situ Microreactor system for X-ray microspectroscopy to mimic atmospheric aerosol processing. Atmospheric Measurement Techniques, 2020, 13, 3717-3729.	1.2	5
544	Butene Emissions From Coastal Ecosystems May Contribute to New Particle Formation. Geophysical Research Letters, 2022, 49, .	1.5	5
545	Site response assessment at the city of Al Khobar, eastern Saudi Arabia, from microtremor and borehole data. Arabian Journal of Geosciences, 2015, 8, 10015-10030.	0.6	4
546	Structure of the Yanbu suture zone in Northwest Saudi Arabia inferred from aeromagnetic and seismological data. Arabian Journal of Geosciences, 2015, 8, 8741-8752.	0.6	4
547	Spatial distribution of atmospheric aerosols over the territory of Eurasia in middle and high latitudes. Geography and Natural Resources, 2015, 36, 25-30.	0.1	4
548	The challenge of simulating the sensitivity of the Amazonian cloud microstructure to cloud condensation nuclei number concentrations. Atmospheric Chemistry and Physics, 2020, 20, 1591-1605.	1.9	4
549	Iconographic and archaeometric studies on the rock art at Musayqira, Alâ€Quwaiyah Governorate, central Saudi Arabia. Arabian Archaeology and Epigraphy, 2021, 32, 153-182.	0.2	4
550	Life-sized Neolithic camel sculptures in Arabia: A scientific assessment of the craftsmanship and age of the Camel Site reliefs. Journal of Archaeological Science: Reports, 2021, , 103165.	0.2	4
551	Linear relationship between effective radius and precipitation water content near the top of convective clouds: measurement results from ACRIDICONâ€“CHUVA campaign. Atmospheric Chemistry and Physics, 2021, 21, 14079-14088.	1.9	4
552	Observed and simulated variability of droplet spectral dispersion in convective clouds over the Amazon. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035076.	1.2	4
553	Crustal and Upper Mantle Structures Beneath the Arabian Shield and Red Sea. Frontiers in Earth Sciences, 2017, , 3-29.	0.1	4
554	Planetary Boundary Layer Height Modulates Aerosolâ€”Water Vapor Interactions During Winter in the Megacity of Delhi. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035681.	1.2	4
555	Archaeometric studies on rock art at four sites in the northeastern Great Basin of North America. PLoS ONE, 2022, 17, e0263189.	1.1	4
556	Sources, seasonal variability, and trajectories of atmospheric aerosols over central Siberian forest ecosystems. Doklady Earth Sciences, 2011, 441, 1710-1714.	0.2	3
557	Ten-year study of fine aerosol at Sde Boker, Israel, using PIXE: Time trends, seasonal variation, correlations, and source areas for anthropogenic elements. Nuclear Instruments & Methods in Physics Research B, 2014, 318, 119-124.	0.6	3
558	CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. Bulletin of the American Meteorological Society, 0, , 130117123745009.	1.7	3

#	Article	IF	Citations
559	Cloud droplet formation at the base of tropical convective clouds: closure between modeling and measurement results of ACRIDICONâ€“CHUVA. Atmospheric Chemistry and Physics, 2021, 21, 17513-17528.	1.9	3
560	Evolution of boundary-layer aerosol particles due to in-cloud chemical reactions during the 2nd Lagrangian experiment of ACE-2. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 452-462.	0.8	2
561	Feedbacks and Interactions between Global Change, Atmospheric Chemistry, and the Biosphere. , 2001, , 15-37.		2
562	Artifacts from manganese reduction in rock samples prepared by focused ion beam (FIB) slicing for X-ray microspectroscopy. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 97-111.	0.6	2
563	Measurement and modelling of the dynamics of NH₃ surfaceâ€“atmosphere exchange over the Amazonian rainforest. Biogeosciences, 2021, 18, 2809-2825.	1.3	2
564	The Emission of Sulfur and Nitrogen to the Remote Atmosphere Working-Group Report. , 1985, , 55-63.		2
565	Satelliteâ€Based Detection of Secondary Droplet Activation in Convective Clouds. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	2
566	<title>Using remotely sensed information to interpret the distribution of some volatile organic sulfur compounds in the upper ocean along an Atlantic meridional transect (AMT)</title>. , 2000, , .		1
567	Ammonia Exchange between Terrestrial Plants and the Atmosphere Controlled by Plant Physiology: Compensation Point and CO2 Exchange. , 1997, , 445-449.		1
568	Emissions relationships in western forest fire plumes â€“ Part 1: Reducing the effect of mixing errors on emission factors. Atmospheric Measurement Techniques, 2020, 13, 7069-7096.	1.2	1
569	X-ray Microspectroscopy and Ptychography on Nanoscale Structures in Rock Varnish. Journal of Physical Chemistry C, 2021, 125, 22684-22697.	1.5	1
570	Ozone Production from Biomass Burning in Tropical Africa. Results from DECAFE-88. Ecological Studies, 1990, , 437-439.	0.4	1
571	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. SpringerBriefs on Pioneers in Science and Practice, 2016, , 197-209.	0.2	1
572	Reply to â€œComment on Cloud condensation nuclei in the Amazon Basin: â€œMarineâ€•conditions over a continent?â€•by P. J. Crutzen et al.. Geophysical Research Letters, 2003, 30, .	1.5	0
573	ILEAPS:A new program to study land/atmosphere interactions in the second phase of IGBP. Eos, 2003, 84, 242.	0.1	0
574	Fire and ice. Nature, 2004, 429, 713-713.	13.7	0
575	Andreae is new Editor of Global Biogeochemical Cycles. Eos, 2004, 85, 405.	0.1	0
576	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: Diurnal cycle, aging and parameterization. , 2013, , .		0

#	Article	IF	Citations
577	Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California. , 2020, 15, e0235421.		0
578	Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California. , 2020, 15, e0235421.		0
579	Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California. , 2020, 15, e0235421.		0
580	Geochemical studies on rock varnish and petroglyphs in the Owens and Rose Valleys, California. , 2020, 15, e0235421.		0