Paulo Artaxo

List of Publications by Year
in descending order

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417 papers	39,642 citations	2669 95 h-index	4419 172 g-index
609 all docs	609 docs citations	609 times ranked	24380 citing authors

#	Article	IF	Citations
1	Fire in the Earth System. Science, 2009, 324, 481-484.	6.0	2,330
2	Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene. Science, 2004, 303, 1173-1176.	6.0	1,316
3	Smoking Rain Clouds over the Amazon. Science, 2004, 303, 1337-1342.	6.0	1,282
4	The Amazon basin in transition. Nature, 2012, 481, 321-328.	13.7	922
5	The human dimension of fire regimes on Earth. Journal of Biogeography, 2011, 38, 2223-2236.	1.4	845
6	The effect of physical and chemical aerosol properties on warm cloud droplet activation. Atmospheric Chemistry and Physics, 2006, 6, 2593-2649.	1.9	690
7	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. Global Biogeochemical Cycles, 2008, 22, .	1.9	617
8	Optical properties of humic-like substances (HULIS) in biomass-burning aerosols. Atmospheric Chemistry and Physics, 2006, 6, 3563-3570.	1.9	566
9	The global impact of ozone on agricultural crop yields under current and future air quality legislation. Atmospheric Environment, 2009, 43, 604-618.	1.9	563
10	Rainforest Aerosols as Biogenic Nuclei of Clouds and Precipitation in the Amazon. Science, 2010, 329, 1513-1516.	6.0	541
11	Atmospheric Iron Deposition: Global Distribution, Variability, and Human Perturbations. Annual Review of Marine Science, 2009, 1, 245-278.	5.1	536
12	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
13	A simplified description of the evolution of organic aerosol composition in the atmosphere. Geophysical Research Letters, 2010, 37, .	1.5	412
14	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
15	Contrasting convective regimes over the Amazon: Implications for cloud electrification. Journal of Geophysical Research, 2002, 107, LBA 50-1.	3.3	374
16	The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895.	1.9	363
17	Impact of desert dust on the biogeochemistry of phosphorus in terrestrial ecosystems. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	362
18	Chemical composition of aerosol particles from direct emissions of vegetation fires in the Amazon Basin: water-soluble species and trace elements. Atmospheric Environment, 2000, 34, 1641-1653.	1.9	347

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19	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
20	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
21	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
22	Substantial convection and precipitation enhancements by ultrafineaerosol particles. Science, 2018, 359, 411-418.	6.0	290
23	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
24	Smoke, Clouds, and Radiation-Brazil (SCAR-B) experiment. Journal of Geophysical Research, 1998, 103, 31783-31808.	3.3	284
25	Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, .	9.0	283
26	Effects of black carbon content, particle size, and mixing on light absorption by aerosols from biomass burning in Brazil. Journal of Geophysical Research, 1998, 103, 32041-32050.	3.3	282
27	Relative roles of biogenic emissions and Saharan dust as ice nuclei in the Amazon basin. Nature Geoscience, 2009, 2, 402-405.	5.4	282
28	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
29	The status and challenge of global fire modelling. Biogeosciences, 2016, 13, 3359-3375.	1.3	274
30	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
31	Combustion iron distribution and deposition. Global Biogeochemical Cycles, 2008, 22, .	1.9	263
32	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
33	The Impact of Sugar Caneâ€“Burning Emissions on the Respiratory System of Children and the Elderly. Environmental Health Perspectives, 2006, 114, 725-729.	2.8	246
34	Characterization of the Gent Stacked Filter Unit PM10Sampler. Aerosol Science and Technology, 1997, 27, 726-735.	1.5	237
35	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
36	Monitoring the transport of biomass burning emissions in South America. Environmental Fluid Mechanics, 2005, 5, 135-167.	0.7	231

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37	Aerosol emissions by tropical forest and savanna biomass burning: Characteristic trace elements and fluxes. Geophysical Research Letters, 1995, 22, 3039-3042.	1.5	222
38	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
39	Patterns of water and heat flux across a biome gradient from tropical forest to savanna in Brazil. Journal of Geophysical Research, 2009, 114, .	3.3	220
40	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
41	Cloud condensation nucleation activity of biomass burning aerosol. Journal of Geophysical Research, 2009, 114, .	3.3	213
42	Introduction: Observations and Modeling of the Green Ocean Amazon (GoAmazon2014/5). Atmospheric Chemistry and Physics, 2016, 16, 4785-4797.	1.9	213
43	The Tropical Forest and Fire Emissions Experiment: overview and airborne fire emission factor measurements. Atmospheric Chemistry and Physics, 2007, 7, 5175-5196.	1.9	212
44	An overview of the first decade of Polly^{NET}: an emerging network of automated Raman-polarization lidars for continuous aerosol profiling. Atmospheric Chemistry and Physics, 2016, 16, 5111-5137.	1.9	212
45	Atmospheric aerosols in Amazonia and land use change: from natural biogenic to biomass burning conditions. Faraday Discussions, 2013, 165, 203.	1.6	207
46	The tropical forest and fire emissions experiment: Emission, chemistry, and transport of biogenic volatile organic compounds in the lower atmosphere over Amazonia. Journal of Geophysical Research, 2007, 112, .	3.3	206
47	Low molecular weight organic acids in aerosol particles from RondÃ´nia, Brazil, during the biomass-burning, transition and wet periods. Atmospheric Chemistry and Physics, 2005, 5, 781-797.	1.9	196
48	Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. Science, 2012, 337, 1075-1078.	6.0	188
49	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
50	The Tropical Forest and Fire Emissions Experiment: method evaluation of volatile organic compound emissions measured by PTR-MS, FTIR, and GC from tropical biomass burning. Atmospheric Chemistry and Physics, 2007, 7, 5883-5897.	1.9	186
51	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	1.9	185
52	Atmospheric mercury concentrations observed at ground-based monitoring sites globally distributed in the framework of the GMOS network. Atmospheric Chemistry and Physics, 2016, 16, 11915-11935.	1.9	185
53	Trace elements in tropical African savanna biomass burning aerosols. Journal of Atmospheric Chemistry, 1995, 22, 19-39.	1.4	181
54	Air quality and human health improvements from reductions in deforestation-related fire in Brazil. Nature Geoscience, 2015, 8, 768-771.	5.4	180

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55	Chemical composition of rainwater and anthropogenic influences in the Piracicaba River Basin, Southeast Brazil. Atmospheric Environment, 2001, 35, 4937-4945.	1.9	179
56	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. Geophysical Research Letters, 2003, 30, .	1.5	179
57	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
58	Composition and sources of aerosols from the Amazon Basin. Journal of Geophysical Research, 1988, 93, 1605-1615.	3.3	175
59	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
60	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
61	Mass spectral characterization of submicron biogenic organic particles in the Amazon Basin. Geophysical Research Letters, 2009, 36, .	1.5	171
62	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08). Atmospheric Chemistry and Physics, 2010, 10, 11415-11438.	1.9	170
63	Atmospheric budget of primary biological aerosol particles from fungal spores. Geophysical Research Letters, 2009, 36, .	1.5	169
64	Wintertime and summertime SÃ£o Paulo aerosol source apportionment study. Atmospheric Environment, 2001, 35, 4889-4902.	1.9	168
65	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
66	Aerosol characteristics and sources for the Amazon Basin during the wet season. Journal of Geophysical Research, 1990, 95, 16971-16985.	3.3	164
67	Atmospheric volatile organic compounds (VOC) at a remote tropical forest site in central Amazonia. Atmospheric Environment, 2000, 34, 4063-4072.	1.9	164
68	Water-soluble organic nitrogen in Amazon Basin aerosols during the dry (biomass burning) and wet seasons. Journal of Geophysical Research, 2003, 108, .	3.3	162
69	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
70	Biogeography in the air: fungal diversity over land and oceans. Biogeosciences, 2012, 9, 1125-1136.	1.3	152
71	Cloud condensation nuclei in the Amazon Basin: â€œmarineâ€•conditions over a continent?. Geophysical Research Letters, 2001, 28, 2807-2810.	1.5	148
72	Dust and smoke transport from Africa to South America: Lidar profiling over Cape Verde and the Amazon rainforest. Geophysical Research Letters, 2009, 36, .	1.5	146

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73	Impacts of biomass burning emissions and land use change on Amazonian atmospheric phosphorus cycling and deposition. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	142
74	Rapid formation of isoprene photo-oxidation products observed in Amazonia. Atmospheric Chemistry and Physics, 2009, 9, 7753-7767.	1.9	136
75	The long-range transport of southern African aerosols to the tropical South Atlantic. Journal of Geophysical Research, 1996, 101, 23777-23791.	3.3	135
76	Large-scale aerosol source apportionment in Amazonia. Journal of Geophysical Research, 1998, 103, 31837-31847.	3.3	135
77	Composition and diurnal variability of the natural Amazonian aerosol. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	132
78	Fine mode aerosol composition at three long-term atmospheric monitoring sites in the Amazon Basin. Journal of Geophysical Research, 1994, 99, 22857.	3.3	131
79	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
80	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	5.8	131
81	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
82	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
83	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
84	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
85	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
86	Deriving brown carbon from multiwavelength absorption measurements: method and application to AERONET and Aethalometer observations. Atmospheric Chemistry and Physics, 2016, 16, 12733-12752.	1.9	123
87	New Analytical Method for the Determination of Levoglucosan, Polyhydroxy Compounds, and 2-Methylerythritol and Its Application to Smoke and Rainwater Samples. Environmental Science & Technology, 2005, 39, 2744-2752.	4.6	122
88	The effects of biomass burning aerosols and clouds on the CO2 flux in Amazonia. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 338-349.	0.8	119
89	Size distribution of biogenic aerosol particles from the amazon basin. Atmospheric Environment, 1995, 29, 393-402.	1.9	118
90	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

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91	Airborne measurements indicate large methane emissions from the eastern Amazon basin. Geophysical Research Letters, 2007, 34, .	1.5	115
92	Submicrometer aerosol particle size distribution and hygroscopic growth measured in the Amazon rain forest during the wet season. Journal of Geophysical Research, 2002, 107, LBA 22-1.	3.3	113
93	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419.	13.7	112
94	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
95	Aerosol composition and source apportionment in Santiago de Chile. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 409-416.	0.6	109
96	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
97	Withinâ€plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. Global Change Biology, 2012, 18, 973-984.	4.2	107
98	Properties of aerosols from sugar-cane burning emissions in Southeastern Brazil. Atmospheric Environment, 2005, 39, 4627-4637.	1.9	106
99	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
100	Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin. Atmospheric Chemistry and Physics, 2018, 18, 921-961.	1.9	105
101	Rainfall and surface kinematic conditions over central Amazonia during ABLE 2B. Journal of Geophysical Research, 1990, 95, 17001-17014.	3.3	104
102	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
103	Analysis of particulate emissions from tropical biomass burning using a global aerosol model and long-term surface observations. Atmospheric Chemistry and Physics, 2016, 16, 11083-11106.	1.9	104
104	Multiyear analysis of amazonian biomass burning smoke radiative forcing of climate. Geophysical Research Letters, 2004, 31, .	1.5	103
105	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
106	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
107	Sphericity and morphology of smoke particles from biomass burning in Brazil. Journal of Geophysical Research, 1998, 103, 32051-32057.	3.3	101
108	Large scale mercury and trace element measurements in the Amazon basin. Atmospheric Environment, 2000, 34, 4085-4096.	1.9	99

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109	Stable carbon and nitrogen isotopic composition of bulk aerosol particles in a C4 plant landscape of southeast Brazil. Atmospheric Environment, 2002, 36, 2427-2432.	1.9	99
110	Fogâ€•and cloudâ€•induced aerosol modification observed by the Aerosol Robotic Network (AERONET). Journal of Geophysical Research, 2012, 117, .	3.3	99
111	Sub-micrometre particulate matter is primarily in liquid form over Amazon rainforest. Nature Geoscience, 2016, 9, 34-37.	5.4	99
112	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
113	Impact on human health of particulate matter emitted from burnings in the Brazilian Amazon region. Revista De Saude Publica, 2010, 44, 121-130.	0.7	97
114	Globally significant changes in biological processes of the Amazon Basin: results of the Large-scale Biosphere-Atmosphere Experiment. Global Change Biology, 2004, 10, 519-529.	4.2	96
115	Aerosol profiling with lidar in the Amazon Basin during the wet and dry season. Journal of Geophysical Research, 2012, 117, .	3.3	95
116	Long-term monitoring of atmospheric aerosols in the Amazon Basin: Source identification and apportionment. Journal of Geophysical Research, 1998, 103, 31849-31864.	3.3	94
117	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
118	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
119	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
120	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
121	The effect of atmospheric aerosol particles and clouds on net ecosystem exchange in the Amazon. Atmospheric Chemistry and Physics, 2014, 14, 6523-6543.	1.9	90
122	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). Atmospheric Chemistry and Physics, 2015, 15, 3687-3701.	1.9	88
123	Long term measurements of aerosol optical properties at a primary forest site in Amazonia. Atmospheric Chemistry and Physics, 2013, 13, 2391-2413.	1.9	87
124	Fires increase Amazon forest productivity through increases in diffuse radiation. Geophysical Research Letters, 2015, 42, 4654-4662.	1.5	87
125	Impact on short-lived climate forcers increases projected warming due to deforestation. Nature Communications, 2018, 9, 157.	5.8	86
126	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

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127	Spatial variability of the direct radiative forcing of biomass burning aerosols and the effects of land use change in Amazonia. Atmospheric Chemistry and Physics, 2013, 13, 1261-1275.	1.9	85
128	Isoprene photochemistry over the Amazon rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6125-6130.	3.3	85
129	Biomass burning in the Amazon region: Aerosol source apportionment and associated health risk assessment. Atmospheric Environment, 2015, 120, 277-285.	1.9	84
130	Diel and seasonal changes of biogenic volatile organic compounds within and above an Amazonian rainforest. Atmospheric Chemistry and Physics, 2015, 15, 3359-3378.	1.9	83
131	Amazonia and the modern carbon cycle: lessons learned. Oecologia, 2005, 143, 483-500.	0.9	82
132	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
133	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
134	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
135	Physicalâ€“chemical characterisation of the particulate matter inside two road tunnels in the SÃ£o Paulo Metropolitan Area. Atmospheric Chemistry and Physics, 2013, 13, 12199-12213.	1.9	81
136	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. Atmospheric Environment, 2000, 34, 5037-5051.	1.9	80
137	Cloudâ€nucleating properties of the Amazonian biomass burning aerosol: Cloud condensation nuclei measurements and modeling. Journal of Geophysical Research, 2007, 112, .	3.3	80
138	Characterization of the optical properties of atmospheric aerosols in AmazÃ´nia from longâ€term AERONET monitoring (1993â€“1995 and 1999â€“2006). Journal of Geophysical Research, 2008, 113, .	3.3	80
139	Synergetic measurements of aerosols over SÃ£o Paulo, Brazil using LIDAR, sunphotometer and satellite data during the dry season. Atmospheric Chemistry and Physics, 2003, 3, 1523-1539.	1.9	79
140	Spectral dependence of aerosol light absorption over the Amazon Basin. Atmospheric Chemistry and Physics, 2011, 11, 8899-8912.	1.9	76
141	Multi-model study of mercury dispersion in the atmosphere: atmospheric processes and model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 5271-5295.	1.9	76
142	Within-canopy sesquiterpene ozonolysis in Amazonia. Journal of Geophysical Research, 2011, 116, .	3.3	73
143	Biomass burning particles in the Brazilian Amazon region: Mutagenic effects of nitro and oxy-PAHs and assessment of health risks. Environmental Pollution, 2018, 233, 960-970.	3.7	72
144	SPARTAN: a global network to evaluate and enhance satellite-based estimates of ground-level particulate matter for global health applications. Atmospheric Measurement Techniques, 2015, 8, 505-521.	1.2	71

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145	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
146	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
147	Ecosystem Impacts of Geoengineering: A Review for Developing a Science Plan. Ambio, 2012, 41, 350-369.	2.8	69
148	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. Environmental Science & Technology, 2016, 50, 9952-9962.	4.6	69
149	Association between fine particulate matter and the peak expiratory flow of schoolchildren in the Brazilian subequatorial Amazon: A panel study. Environmental Research, 2012, 117, 27-35.	3.7	68
150	Further evidence for significant smoke transport from Africa to Amazonia. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	67
151	Fire and deforestation dynamics in Amazonia (1973â€“2014). Global Biogeochemical Cycles, 2017, 31, 24-38.	1.9	66
152	Global Organic Emissions from Vegetation. Advances in Global Change Research, 2004, , 115-170.	1.6	65
153	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
154	Vertical profiles of CO₂ above eastern Amazonia suggest a net carbon flux to the atmosphere and balanced biosphere between 2000 and 2009. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 581.	0.8	63
155	Characterization of active and total fungal communities in the atmosphere over the Amazon rainforest. Biogeosciences, 2015, 12, 6337-6349.	1.3	63
156	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. Atmospheric Environment, 2015, 123, 240-250.	1.9	63
157	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 467-493.	1.9	63
158	Retrieval of the real part of the refractive index of smoke particles from Sun/sky measurements during SCAR-B. Journal of Geophysical Research, 1998, 103, 31893-31902.	3.3	62
159	Observed reductions of total solar irradiance by biomass-burning aerosols in the Brazilian Amazon and Zambian Savanna. Geophysical Research Letters, 2002, 29, 4-1-4-4.	1.5	62
160	Atmosphere and hydrological controls of the evapotranspiration over a floodplain forest in the Bananal Island region, Amazonia. Journal of Geophysical Research, 2009, 114, .	3.3	62
161	Air pollution and hospital admissions for respiratory diseases in the subequatorial Amazon: a time series approach. Cadernos De Saude Publica, 2010, 26, 747-761.	0.4	62
162	Biomass burning in the Amazon region causes DNA damage and cell death in human lung cells. Scientific Reports, 2017, 7, 10937.	1.6	62

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163	QuÃmica atmosfÃ©rica na AmazÃ´nia: a floresta e as emissÃµes de queimadas controlando a composiÃ§Ã£o da atmosfera amazÃ´nica. Acta Amazonica, 2005, 35, 185-196.	0.3	61
164	Biomass burning related ozone damage on vegetation over the Amazon forest: a model sensitivity study. Atmospheric Chemistry and Physics, 2015, 15, 2791-2804.	1.9	60
165	Developing countries must lead on solar geoengineering research. Nature, 2018, 556, 22-24.	13.7	60
166	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model. Atmospheric Chemistry and Physics, 2019, 19, 9125-9152.	1.9	60
167	Mass-spectrometric identification of primary biological particle markers and application to pristine submicron aerosol measurements in Amazonia. Atmospheric Chemistry and Physics, 2011, 11, 11415-11429.	1.9	59
168	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
169	Characteristics of fine and coarse particles of natural and urban aerosols of Brazil. Atmospheric Environment, 1986, 20, 2259-2269.	1.1	58
170	Remote sensing the vertical profile of cloud droplet effective radius, thermodynamic phase, and temperature. Atmospheric Chemistry and Physics, 2011, 11, 9485-9501.	1.9	58
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