Andre Prevot

List of Publications by Year
in descending order

455 papers	48,464 citations	2970 93 h-index	3102 187 g-index
601 all docs	601 docs citations	601 times ranked	18027 citing authors

#	Article	IF	Citations
1	High secondary aerosol contribution to particulate pollution during haze events in China. Nature, 2014, 514, 218-222.	13.7	3,582
2	The formation, properties and impact of secondary organic aerosol: current and emerging issues. Atmospheric Chemistry and Physics, 2009, 9, 5155-5236.	1.9	3,486
3	Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529.	6.0	3,374
4	O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High-Resolution Time-of-Flight Aerosol Mass Spectrometry. Environmental Science & Technology, 2008, 42, 4478-4485.	4.6	1,524
5	Identification of Polymers as Major Components of Atmospheric Organic Aerosols. Science, 2004, 303, 1659-1662.	6.0	947
6	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. Atmospheric Chemistry and Physics, 2010, 10, 4625-4641.	1.9	908
7	Source apportionment of particulate matter in Europe: A review of methods and results. Journal of Aerosol Science, 2008, 39, 827-849.	1.8	812
8	Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
9	Source apportionment of submicron organic aerosols at an urban site by factor analytical modelling of aerosol mass spectra. Atmospheric Chemistry and Physics, 2007, 7, 1503-1522.	1.9	702
10	The "dual-spot" Aethalometer: an improved measurement of aerosol black carbon with real-time loading compensation. Atmospheric Measurement Techniques, 2015, 8, 1965-1979.	1.2	662
11	Using Aerosol Light Absorption Measurements for the Quantitative Determination of Wood Burning and Traffic Emission Contributions to Particulate Matter. Environmental Science & Technology, 2008, 42, 3316-3323.	4.6	629
12	Identification of the Mass Spectral Signature of Organic Aerosols from Wood Burning Emissions. Environmental Science & Technology, 2007, 41, 5770-5777.	4.6	459
13	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. Atmospheric Chemistry and Physics, 2012, 12, 1649-1665.	1.9	449
14	SoFi, an IGOR-based interface for the efficient use of the generalized multilinear engine (ME-2) for the source apportionment: ME-2 application to aerosol mass spectrometer data. Atmospheric Measurement Techniques, 2013, 6, 3649-3661.	1.2	433
15	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6646-6651.	3.3	403
16	Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris. Atmospheric Chemistry and Physics, 2013, 13, 961-981.	1.9	391
17	Sources of particulate-matter air pollution and its oxidative potential in Europe. Nature, 2020, 587, 414-419.	13.7	352
18	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. Environmental Science & Technology, 2017, 51, 1074-1093.	4.6	348

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19	A study of wood burning and traffic aerosols in an Alpine valley using a multi-wavelength Aethalometer. Atmospheric Environment, 2008, 42, 101-112.	1.9	330
20	Relating hygroscopicity and composition of organic aerosol particulate matter. Atmospheric Chemistry and Physics, 2011, 11, 1155-1165.	1.9	326
21	New considerations for PM, Black Carbon and particle number concentration for air quality monitoring across different European cities. Atmospheric Chemistry and Physics, 2011, 11, 6207-6227.	1.9	317
22	Urban air quality: The challenge of traffic non-exhaust emissions. Journal of Hazardous Materials, 2014, 275, 31-36.	6.5	314
23	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. Atmospheric Chemistry and Physics, 2014, 14, 6159-6176.	1.9	308
24	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. Environmental Science & Technology, 2013, 47, 6316-6324.	4.6	304
25	New insights into PM_{2.5} chemical composition and sources in two major cities in China during extreme haze events using aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2016, 16, 3207-3225.	1.9	300
26	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	1.9	294
27	Source Attribution of Submicron Organic Aerosols during Wintertime Inversions by Advanced Factor Analysis of Aerosol Mass Spectra. Environmental Science & Technology, 2008, 42, 214-220.	4.6	286
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	Evaluation of the absorption Ã…ngstrÃ¶m exponents for traffic and wood burning in the Aethalometer-based source apportionment using radiocarbon measurements of ambient aerosol. Atmospheric Chemistry and Physics, 2017, 17, 4229-4249.	1.9	272
30	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. Nature Communications, 2015, 6, 8435.	5.8	266
31	Characterization of aerosol chemical composition with aerosol mass spectrometry in Central Europe: an overview. Atmospheric Chemistry and Physics, 2010, 10, 10453-10471.	1.9	261
32	Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13503-13508.	3.3	251
33	A mass spectrometric study of secondary organic aerosols formed from the photooxidation of anthropogenic and biogenic precursors in a reaction chamber. Atmospheric Chemistry and Physics, 2006, 6, 5279-5293.	1.9	247
34	Secondary organic aerosols from anthropogenic and biogenic precursors. Faraday Discussions, 2005, 130, 265.	1.6	245
35	Atmospheric composition change: Climateâ€“Chemistry interactions. Atmospheric Environment, 2009, 43, 5138-5192.	1.9	243
36	PM10 emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. Atmospheric Environment, 2010, 44, 2330-2340.	1.9	243

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37	Nitrogen oxide measurements at rural sites in Switzerland: Bias of conventional measurement techniques. Journal of Geophysical Research, 2007, 112, .	3.3	220
38	Investigations of primary and secondary particulate matter of different wood combustion appliances with a high-resolution time-of-flight aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2011, 11, 5945-5957.	1.9	215
39	Secondary organic aerosol formation from gasoline vehicle emissions in a new mobile environmental reaction chamber. Atmospheric Chemistry and Physics, 2013, 13, 9141-9158.	1.9	207
40	Modelling of organic aerosols over Europe (2002â€“2007) using a volatility basis set (VBS) framework: application of different assumptions regarding the formation of secondary organic aerosol. Atmospheric Chemistry and Physics, 2012, 12, 8499-8527.	1.9	193
41	Secondary Organic Aerosol Formation by Irradiation of 1,3,5-Trimethylbenzeneâ^'NOxâ^'H2O in a New Reaction Chamber for Atmospheric Chemistry and Physics. Environmental Science & Technology, 2005, 39, 2668-2678.	4.6	191
42	Dominant impact of residential wood burning on particulate matter in Alpine valleys during winter. Geophysical Research Letters, 2007, 34, .	1.5	191
43	Light-absorbing soluble organic aerosol in Los Angeles and Atlanta: A contrast in secondary organic aerosol. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	190
44	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. Geophysical Research Letters, 2012, 39, .	1.5	189
45	Influence of meteorology on PM₁₀ trends and variability in Switzerland from 1991 to 2008. Atmospheric Chemistry and Physics, 2011, 11, 1813-1835.	1.9	188
46	A mobile pollutant measurement laboratoryâ€"measuring gas phase and aerosol ambient concentrations with high spatial and temporal resolution. Atmospheric Environment, 2002, 36, 5569-5579.	1.9	187
47	The ToF-ACSM: a portable aerosol chemical speciation monitor with TOFMS detection. Atmospheric Measurement Techniques, 2013, 6, 3225-3241.	1.2	184
48	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) â€“ Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. Atmospheric Chemistry and Physics, 2010, 10, 5315-5341.	1.9	182
49	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. Geophysical Research Letters, 2016, 43, 7735-7744.	1.5	182
50	Impact of aftertreatment devices on primary emissions and secondary organic aerosol formation potential from in-use diesel vehicles: results from smog chamber experiments. Atmospheric Chemistry and Physics, 2010, 10, 11545-11563.	1.9	178
51	One decade of parallel fine (PM_{2.5}) and coarse (PM₁₀â€“PM_{2.5}) particulate matter measurements in Europe: trends and variability. Atmospheric Chemistry and Physics, 2012, 12, 3189-3203.	1.9	177
52	Black carbon physical properties and mixing state in the European megacity Paris. Atmospheric Chemistry and Physics, 2013, 13, 5831-5856.	1.9	174
53	Quantification of topographic venting of boundary layer air to the free troposphere. Atmospheric Chemistry and Physics, 2004, 4, 497-509.	1.9	173
54	Wintertime aerosol chemistry and haze evolution in an extremely polluted city of the North China Plain: significant contribution fromÂcoal and biomass combustion. Atmospheric Chemistry and Physics, 2017, 17, 4751-4768.	1.9	172

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55	Size distribution, mixing state and source apportionment of black carbon aerosol in London during wintertime. Atmospheric Chemistry and Physics, 2014, 14, 10061-10084.	1.9	171
56	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003. Atmospheric Chemistry and Physics, 2005, 5, 1187-1203.	1.9	164
57	Fossil vs. non-fossil sources of fine carbonaceous aerosols in four Chinese cities during the extreme winter haze episode of 2013. Atmospheric Chemistry and Physics, 2015, 15, 1299-1312.	1.9	163
58	Associations of Primary and Secondary Organic Aerosols With Airway and Systemic Inflammation in an Elderly Panel Cohort. Epidemiology, 2010, 21, 892-902.	1.2	160
59	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. Atmospheric Chemistry and Physics, 2011, 11, 12067-12084.	1.9	157
60	Laboratory observation of oligomers in the aerosol from isoprene/NOxphotooxidation. Geophysical Research Letters, 2006, 33, .	1.5	152
61	Intercomparison of four different in-situ techniques for ambient formaldehyde measurements in urban air. Atmospheric Chemistry and Physics, 2005, 5, 2881-2900.	1.9	148
62	Cloud forming potential of secondary organic aerosol under near atmospheric conditions. Geophysical Research Letters, 2008, 35, .	1.5	145
63	Organic aerosol mass spectral signatures from woodâ€burning emissions: Influence of burning conditions and wood type. Journal of Geophysical Research, 2008, 113, .	3.3	144
64	Identification of marine and continental aerosol sources in Paris using high resolution aerosol mass spectrometry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1950-1963.	1.2	142
65	Identification of significant precursor gases of secondary organic aerosols from residential wood combustion. Scientific Reports, 2016, 6, 27881.	1.6	141
66	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. Atmospheric Chemistry and Physics, 2015, 15, 5773-5801.	1.9	139
67	Changes of hygroscopicity and morphology during ageing of diesel soot. Environmental Research Letters, 2011, 6, 034026.	2.2	138
68	Processing of biomass-burning aerosol in the eastern Mediterranean during summertime. Atmospheric Chemistry and Physics, 2014, 14, 4793-4807.	1.9	133
69	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. Scientific Reports, 2017, 7, 4926.	1.6	133
70	Aged organic aerosol in the Eastern Mediterranean: the Finokalia Aerosol Measurement Experiment â€“ 2008. Atmospheric Chemistry and Physics, 2010, 10, 4167-4186.	1.9	132
71	Labile Peroxides in Secondary Organic Aerosol. CheM, 2016, 1, 603-616.	5.8	132
72	Biomass burning contributions to urban aerosols in a coastal Mediterranean City. Science of the Total Environment, 2012, 427-428, 175-190.	3.9	130

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73	Real-World Emission Factors for Antimony and Other Brake Wear Related Trace Elements: Size-Segregated Values for Light and Heavy Duty Vehicles. Environmental Science & Technology, 2009, 43, 8072-8078.	4.6	129
74	Strong influence of lowermost stratospheric ozone on lower tropospheric background ozone changes over Europe. Geophysical Research Letters, 2007, 34, .	1.5	128
75	Two-stroke scooters are a dominant source of air pollution in many cities. Nature Communications, 2014, 5, 3749.	5.8	126
76	Source-Specific Health Risk Analysis on Particulate Trace Elements: Coal Combustion and Traffic Emission As Major Contributors in Wintertime Beijing. Environmental Science & Technology, 2018, 52, 10967-10974.	4.6	125
77	On the isolation of OC and EC and the optimal strategy of radiocarbon-based source apportionment of carbonaceous aerosols. Atmospheric Chemistry and Physics, 2012, 12, 10841-10856.	1.9	122
78	Volatility and hygroscopicity of aging secondary organic aerosol in a smog chamber. Atmospheric Chemistry and Physics, 2011, 11, 11477-11496.	1.9	119
79	Analysis of the hygroscopic and volatile properties of ammonium sulphate seeded and unseeded SOA particles. Atmospheric Chemistry and Physics, 2009, 9, 721-732.	1.9	118
80	ACTRIS ACSM intercomparison â€“ Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. Atmospheric Measurement Techniques, 2015, 8, 2555-2576.	1.2	118
81	Source characterization of highly oxidized multifunctional compounds in a boreal forest environment using positive matrix factorization. Atmospheric Chemistry and Physics, 2016, 16, 12715-12731.	1.9	118
82	Insights into characteristics, sources, and evolution of submicron aerosols during harvest seasons in the Yangtze River delta region, China. Atmospheric Chemistry and Physics, 2015, 15, 1331-1349.	1.9	116
83	Effective Henryâ€™s Law Partitioning and the Salting Constant of Glyoxal in Aerosols Containing Sulfate. Environmental Science & Technology, 2013, 47, 4236-4244.	4.6	115
84	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³C and ¹⁴C isotope analysis. Atmospheric Chemistry and Physics, 2011, 11, 8593-8606.	1.9	114
85	OH clock determination by proton transfer reaction mass spectrometry at an environmental chamber. Atmospheric Measurement Techniques, 2012, 5, 647-656.	1.2	114
86	Contribution of ship emissions to the concentration and deposition of air pollutants in Europe. Atmospheric Chemistry and Physics, 2016, 16, 1895-1906.	1.9	112
87	Trace Metals in Soot and PM_{2.5} from Heavy-Fuel-Oil Combustion in a Marine Engine. Environmental Science & Technology, 2018, 52, 6714-6722.	4.6	112
88	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. PLoS ONE, 2015, 10, e0126536.	1.1	111
89	Inter-comparison of laboratory smog chamber and flow reactor systems on organic aerosol yield and composition. Atmospheric Measurement Techniques, 2015, 8, 2315-2332.	1.2	110
90	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry. Atmospheric Measurement Techniques, 2016, 9, 23-39.	1.2	110

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91	Source apportionment of organic aerosol from 2-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 8469-8489.	1.9	110
92	OH measurements during the First Aerosol Characterization Experiment (ACE 1): Observations and model comparisons. Journal of Geophysical Research, 1998, 103, 16713-16729.	3.3	109
93	Presentation of the EURODELTA III intercomparison exercise â€“ evaluation of the chemistry transport models' performance on criteria pollutants and joint analysis with meteorology. Atmospheric Chemistry and Physics, 2016, 16, 12667-12701.	1.9	109
94	Quantitative determination of carbonaceous particle mixing state in Paris using single-particle mass spectrometer and aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2013, 13, 9479-9496.	1.9	108
95	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
96	Seasonal differences in oxygenated organic aerosol composition: implications for emissions sources and factor analysis. Atmospheric Chemistry and Physics, 2015, 15, 6993-7002.	1.9	106
97	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the volatility-basis-set approach within the CHIMERE model. Atmospheric Chemistry and Physics, 2013, 13, 5767-5790.	1.9	105
98	Meteorology, Air Quality, and Health in London: The ClearfLo Project. Bulletin of the American Meteorological Society, 2015, 96, 779-804.	1.7	105
99	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	1.9	104
100	ACTRIS ACSM intercomparison â€“ Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. Atmospheric Measurement Techniques, 2015, 8, 5063-5087.	1.2	104
101	Fine and coarse PM composition and sources in rural and urban sites in Switzerland: Local or regional pollution?. Science of the Total Environment, 2012, 427-428, 191-202.	3.9	103
102	Aerosol particle measurements at three stationary sites in the megacity of Paris during summer 2009: meteorology and air mass origin dominate aerosol particle composition and size distribution. Atmospheric Chemistry and Physics, 2013, 13, 933-959.	1.9	101
103	Urban and rural aerosol characterization of summer smog events during the PIPAPO field campaign in Milan, Italy. Journal of Geophysical Research, 2002, 107, LOP 6-1.	3.3	99
104	Real-Time Measurement of Oligomeric Species in Secondary Organic Aerosol with the Aerosol Time-of-Flight Mass Spectrometer. Analytical Chemistry, 2006, 78, 2130-2137.	3.2	99
105	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. Atmospheric Chemistry and Physics, 2008, 8, 5373-5391.	1.9	99
106	Characterization of primary and secondary wood combustion products generated under different burner loads. Atmospheric Chemistry and Physics, 2015, 15, 2825-2841.	1.9	99
107	Contribution of the Middle Eastern dust source areas to PM10 levels in urban receptors: Case study of Tehran, Iran. Atmospheric Environment, 2013, 75, 287-295.	1.9	98
108	Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. Atmospheric Chemistry and Physics, 2014, 14, 10439-10464.	1.9	97

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109	Characterization of Gas-Phase Organics Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry: Cooking Emissions. Environmental Science & Technology, 2016, 50, 1243-1250.	4.6	97
110	Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements. International Journal of Mass Spectrometry, 2004, 239, 117-128.	0.7	96
111	Primary and secondary organic aerosol origin by combined gas-particle phase source apportionment. Atmospheric Chemistry and Physics, 2013, 13, 8411-8426.	1.9	96
112	Overview of the impact of wood burning emissions on carbonaceous aerosols and PM in large parts of the Alpine region. Atmospheric Environment, 2014, 89, 64-75.	1.9	94
113	Oxygenated volatile organic compounds (OVOCs) at an urban background site in ZÃ¼rich (Europe): Seasonal variation and source allocation. Atmospheric Environment, 2007, 41, 8409-8423.	1.9	93
114	Aerosol climatology and planetary boundary influence at the Jungfraujoch analyzed by synoptic weather types. Atmospheric Chemistry and Physics, 2011, 11, 5931-5944.	1.9	92
115	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. Atmospheric Chemistry and Physics, 2015, 15, 9577-9591.	1.9	92
116	An extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF) for online measurement of atmospheric aerosol particles. Atmospheric Measurement Techniques, 2019, 12, 4867-4886.	1.2	91
117	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. Atmospheric Chemistry and Physics, 2011, 11, 8945-8963.	1.9	90
118	Seasonal trends, chemical speciation and source apportionment of fine PM in Tehran. Atmospheric Environment, 2017, 153, 70-82.	1.9	90
119	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. Atmospheric Chemistry and Physics, 2011, 11, 9415-9430.	1.9	89
120	A comprehensive emission inventory of biogenic volatile organic compounds in Europe: improved seasonality and land-cover. Atmospheric Chemistry and Physics, 2013, 13, 1689-1712.	1.9	89
121	Radiocarbon analysis of elemental and organic carbon in Switzerland during winter-smog episodes from 2008 to 2012 â€“ Part 1: Source apportionment and spatial variability. Atmospheric Chemistry and Physics, 2014, 14, 13551-13570.	1.9	89
122	Gas phase precursors to anthropogenic secondary organic aerosol: detailed observations of 1,3,5-trimethylbenzene photooxidation. Atmospheric Chemistry and Physics, 2009, 9, 635-665.	1.9	88
123	Inorganic Salt Interference on CO₂⁺ in Aerodyne AMS and ACSM Organic Aerosol Composition Studies. Environmental Science & Technology, 2016, 50, 10494-10503.	4.6	88
124	Radiocarbon-Based Source Apportionment of Carbonaceous Aerosols at a Regional Background Site on Hainan Island, South China. Environmental Science & Technology, 2014, 48, 2651-2659.	4.6	87
125	Source Apportionment of Elemental Carbon in Beijing, China: Insights from Radiocarbon and Organic Marker Measurements. Environmental Science & Technology, 2015, 49, 8408-8415.	4.6	83
126	Wintertime organic and inorganic aerosols in Lanzhou, China: sources, processes, and comparison with the results during summer. Atmospheric Chemistry and Physics, 2016, 16, 14937-14957.	1.9	83

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127	Wintertime secondary organic aerosol formation in Beijingâ€“Tianjinâ€“Hebei (BTH): contributions of HONO sources and heterogeneous reactions. Atmospheric Chemistry and Physics, 2019, 19, 2343-2359.	1.9	83
128	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6818-6835.	1.2	82
129	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580.	1.9	82
130	Measurement of the ambient organic aerosol volatility distribution: application during the Finokalia Aerosol Measurement Experiment (FAME-2008). Atmospheric Chemistry and Physics, 2010, 10, 12149-12160.	1.9	81
131	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?. Atmospheric Chemistry and Physics, 2010, 10, 10997-11016.	1.9	80
132	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	80
133	Characterization of an aerodynamic lens for transmitting particles greater than 1 micrometer in diameter into the Aerodyne aerosol mass spectrometer. Atmospheric Measurement Techniques, 2013, 6, 3271-3280.	1.2	79
134	Characterization of gas-phase organics using proton transfer reaction time-of-flight mass spectrometry: fresh and aged residential wood combustion emissions. Atmospheric Chemistry and Physics, 2017, 17, 705-720.	1.9	79
135	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. Atmospheric Measurement Techniques, 2017, 10, 2061-2076.	1.2	79
136	Seasonal variations in aerosol particle composition at the puy-de-DÃ´me research station in France. Atmospheric Chemistry and Physics, 2011, 11, 13047-13059.	1.9	78
137	Towards an online-coupled chemistry-climate model: evaluation of trace gases and aerosols in COSMO-ART. Geoscientific Model Development, 2011, 4, 1077-1102.	1.3	78
138	Hygroscopic properties of fresh and aged wood burning particles. Journal of Aerosol Science, 2013, 56, 15-29.	1.8	78
139	Long-term chemical analysis and organic aerosol source apportionment at nine sites in central Europe: source identification and uncertainty assessment. Atmospheric Chemistry and Physics, 2017, 17, 13265-13282.	1.9	78
140	Real-time measurement and source apportionment of elements in Delhi's atmosphere. Science of the Total Environment, 2020, 742, 140332.	3.9	78
141	Production of particulate brown carbon during atmospheric aging of residential wood-burning emissions. Atmospheric Chemistry and Physics, 2018, 18, 17843-17861.	1.9	77
142	The first UK measurements of nitryl chloride using a chemical ionization mass spectrometer in central London in the summer of 2012, and an investigation of the role of Cl atom oxidation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5638-5657.	1.2	76
143	Sources and contributions of wood smoke during winter in London: assessing local and regional influences. Atmospheric Chemistry and Physics, 2015, 15, 3149-3171.	1.9	76
144	Characteristics and temporal evolution of particulate emissions from a ship diesel engine. Applied Energy, 2015, 155, 204-217.	5.1	76

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145	Transformation of logwood combustion emissions in a smog chamber: formation of secondary organic aerosol and changes in the primary organic aerosol upon daytime and nighttime aging. Atmospheric Chemistry and Physics, 2016, 16, 13251-13269.	1.9	76
146	Aerosol quantification with the Aerodyne Aerosol Mass Spectrometer: detection limits and ionizer background effects. Atmospheric Measurement Techniques, 2009, 2, 33-46.	1.2	75
147	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. Atmospheric Chemistry and Physics, 2017, 17, 8247-8268.	1.9	75
148	Groundwater and surface water quality characterization through positive matrix factorization combined with GIS approach. Water Research, 2019, 159, 122-134.	5.3	74
149	Primary emissions versus secondary formation of fine particulate matter in the most polluted city (Shijiazhuang) in North China. Atmospheric Chemistry and Physics, 2019, 19, 2283-2298.	1.9	74
150	Aerosol modelling in Europe with a focus on Switzerland during summer and winter episodes. Atmospheric Chemistry and Physics, 2011, 11, 7355-7373.	1.9	73
151	Aerosol and trace gas vehicle emission factors measured in a tunnel using anÂAerosol Mass Spectrometer and other on-line instrumentation. Atmospheric Environment, 2011, 45, 2182-2192.	1.9	73
152	Fine and ultrafine particles in the ZÃ¼rich (Switzerland) area measured with a mobile laboratory: an assessment of the seasonal and regional variation throughout a year. Atmospheric Chemistry and Physics, 2003, 3, 1477-1494.	1.9	71
153	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. Atmospheric Chemistry and Physics, 2015, 15, 11291-11309.	1.9	71
154	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. Scientific Reports, 2015, 5, 11801.	1.6	71
155	Infrared-absorbing carbonaceous tar can dominate light absorption by marine-engine exhaust. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	71
156	Effects of various meteorological conditions and spatial emissionresolutions on the ozone concentration and ROG/NO_x limitationin the Milan area (I). Atmospheric Chemistry and Physics, 2004, 4, 423-438.	1.9	70
157	Evidence of major secondary organic aerosol contribution to lensing effect black carbon absorption enhancement. Npj Climate and Atmospheric Science, 2018, 1, .	2.6	70
158	The Milan photooxidant plume. Journal of Geophysical Research, 1997, 102, 23375-23388.	3.3	69
159	Chemical characterization of submicron regional background aerosols in the western Mediterranean using an Aerosol Chemical Speciation Monitor. Atmospheric Chemistry and Physics, 2015, 15, 6379-6391.	1.9	69
160	Organic aerosol concentration and composition over Europe: insights from comparison of regional model predictions with aerosol mass spectrometer factor analysis. Atmospheric Chemistry and Physics, 2014, 14, 9061-9076.	1.9	68
161	Observation of Fullerene Soot in Eastern China. Environmental Science and Technology Letters, 2016, 3, 121-126.	3.9	67
162	Evolution of the chemical fingerprint of biomass burning organic aerosol during aging. Atmospheric Chemistry and Physics, 2018, 18, 7607-7624.	1.9	67

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163	Photochemical oxidant formation over southern Switzerland: 1. Results from summer 1994. Journal of Geophysical Research, 1997, 102, 23345-23362.	3.3	66
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