

Andre Prevot

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548
papers

37,840
citations

88
h-index

180
g-index

601
ext. papers

43,760
ext. citations

6.6
avg, IF

6.8
L-index

#	Paper	IF	Citations
548	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5155-5236	6.8	2861
547	Evolution of organic aerosols in the atmosphere. <i>Science</i> , 2009 , 326, 1525-9	33.3	2767
546	High secondary aerosol contribution to particulate pollution during haze events in China. <i>Nature</i> , 2014 , 514, 218-22	50.4	2713
545	O/C and OM/OC ratios of primary, secondary, and ambient organic aerosols with high-resolution time-of-flight aerosol mass spectrometry. <i>Environmental Science & Technology</i> , 2008 , 42, 4478-85	10.3	1324
544	Identification of polymers as major components of atmospheric organic aerosols. <i>Science</i> , 2004 , 303, 1659-62	33.3	859
543	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4625-4641	6.8	749
542	Source apportionment of particulate matter in Europe: A review of methods and results. <i>Journal of Aerosol Science</i> , 2008 , 39, 827-849	4.3	674
541	Source apportionment of submicron organic aerosols at an urban site by factor analytical modelling of aerosol mass spectra. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1503-1522	6.8	608
540	Atmospheric composition change [g]lobal and regional air quality. <i>Atmospheric Environment</i> , 2009 , 43, 5268-5350	5.3	592
539	Using aerosol light absorption measurements for the quantitative determination of wood burning and traffic emission contributions to particulate matter. <i>Environmental Science & Technology</i> , 2008 , 42, 3316-23	10.3	470
538	The "dual-spot" Aethalometer: an improved measurement of aerosol black carbon with real-time loading compensation. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1965-1979	4	452
537	Identification of the mass spectral signature of organic aerosols from wood burning emissions. <i>Environmental Science & Technology</i> , 2007 , 41, 5770-7	10.3	393
536	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1649-1665	6.8	353
535	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6646-51	11.5	341
534	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. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3649-3661	4	312
533	Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 961-981	6.8	307
532	New considerations for PM, Black Carbon and particle number concentration for air quality monitoring across different European cities. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6207-6227	6.8	269

531	Relating hygroscopicity and composition of organic aerosol particulate matter. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1155-1165	6.8	268
530	A study of wood burning and traffic aerosols in an Alpine valley using a multi-wavelength Aethalometer. <i>Atmospheric Environment</i> , 2008 , 42, 101-112	5.3	259
529	Source attribution of submicron organic aerosols during wintertime inversions by advanced factor analysis of aerosol mass spectra. <i>Environmental Science & Technology</i> , 2008 , 42, 214-20	10.3	257
528	New insights into PM _{2.5} ; chemical composition and sources in two major cities in China during extreme haze events using aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3207-3225	6.8	236
527	Sources and variability of inhalable road dust particles in three European cities. <i>Atmospheric Environment</i> , 2011 , 45, 6777-6787	5.3	234
526	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6159-6176	6.8	232
525	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
524	Review of Urban Secondary Organic Aerosol Formation from Gasoline and Diesel Motor Vehicle Emissions. <i>Environmental Science & Technology</i> , 2017 , 51, 1074-1093	10.3	229
523	Characterization of aerosol chemical composition with aerosol mass spectrometry in Central Europe: an overview. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10453-10471	6.8	225
522	Urban air quality: the challenge of traffic non-exhaust emissions. <i>Journal of Hazardous Materials</i> , 2014 , 275, 31-6	12.8	221
521	Contribution of nitrated phenols to wood burning brown carbon light absorption in Detling, United Kingdom during winter time. <i>Environmental Science & Technology</i> , 2013 , 47, 6316-24	10.3	219
520	Secondary organic aerosols from anthropogenic and biogenic precursors. <i>Faraday Discussions</i> , 2005 , 130, 265-78; discussion 363-86, 519-24	3.6	218
519	Atmospheric composition change: Climate–chemistry interactions. <i>Atmospheric Environment</i> , 2009 , 43, 5138-5192	5.3	206
518	A mass spectrometric study of secondary organic aerosols formed from the photooxidation of anthropogenic and biogenic precursors in a reaction chamber. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5279-5293	6.8	202
517	Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13503-8	11.5	201
516	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. <i>Nature Communications</i> , 2015 , 6, 8435	17.4	198
515	PM ₁₀ emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. <i>Atmospheric Environment</i> , 2010 , 44, 2330-2340	5.3	190
514	Investigations of primary and secondary particulate matter of different wood combustion appliances with a high-resolution time-of-flight aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5945-5957	6.8	188

513	Nitrogen oxide measurements at rural sites in Switzerland: Bias of conventional measurement techniques. <i>Journal of Geophysical Research</i> , 2007 , 112,		187
512	Evaluation of the absorption α_{str} exponents for traffic and wood burning in the Aethalometer-based source apportionment using radiocarbon measurements of ambient aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4229-4249	6.8	171
511	Dominant impact of residential wood burning on particulate matter in Alpine valleys during winter. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	167
510	Secondary organic aerosol formation by irradiation of 1,3,5-trimethylbenzene-NO _x -H ₂ O in a new reaction chamber for atmospheric chemistry and physics. <i>Environmental Science & Technology</i> , 2005 , 39, 2668-78	10.3	167
509	Secondary organic aerosol formation from gasoline vehicle emissions in a new mobile environmental reaction chamber. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9141-9158	6.8	166
508	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	163
507	Light-absorbing soluble organic aerosol in Los Angeles and Atlanta: A contrast in secondary organic aerosol. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	162
506	A mobile pollutant measurement laboratory measuring gas phase and aerosol ambient concentrations with high spatial and temporal resolution. <i>Atmospheric Environment</i> , 2002 , 36, 5569-5579	5.3	158
505	Mexico city aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) [Part 2: Analysis of the biomass burning contribution and the non-fossil carbon fraction. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5315-5341	6.8	157
504	Quantification of topographic venting of boundary layer air to the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 497-509	6.8	154
503	Influence of meteorology on PM ₁₀ trends and variability in Switzerland from 1991 to 2008. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1813-1835	6.8	153
502	Impact of aftertreatment devices on primary emissions and secondary organic aerosol formation potential from in-use diesel vehicles: results from smog chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11545-11563	6.8	152
501	Modelling of organic aerosols over Europe (2002-2007) using a volatility basis set (VBS) framework: application of different assumptions regarding the formation of secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8499-8527	6.8	149
500	One decade of parallel fine (PM _{2.5}) and coarse (PM ₁₀ ; PM _{2.5}) particulate matter measurements in Europe: trends and variability. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3189-3203	6.8	142
499	Laboratory observation of oligomers in the aerosol from isoprene/NO _x photooxidation. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	139
498	Black carbon physical properties and mixing state in the European megacity Paris. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5831-5856	6.8	138
497	Associations of primary and secondary organic aerosols with airway and systemic inflammation in an elderly panel cohort. <i>Epidemiology</i> , 2010 , 21, 892-902	3.1	136
496	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12067-12084	6.8	133

495	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1187-1203	6.8	133
494	Cloud forming potential of secondary organic aerosol under near atmospheric conditions. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	131
493	Fossil vs. non-fossil sources of fine carbonaceous aerosols in four Chinese cities during the extreme winter haze episode of 2013. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1299-1312	6.8	129
492	Sources of particulate-matter air pollution and its oxidative potential in Europe. <i>Nature</i> , 2020 , 587, 414-419	5.4	128
491	Size distribution, mixing state and source apportionment of black carbon aerosol in London during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10061-10084	6.8	127
490	Organic aerosol mass spectral signatures from wood-burning emissions: Influence of burning conditions and wood type. <i>Journal of Geophysical Research</i> , 2008 , 113,		127
489	Identification of marine and continental aerosol sources in Paris using high resolution aerosol mass spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1950-1963	4.4	126
488	The ToF-ACSM: a portable aerosol chemical speciation monitor with TOFMS detection. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3225-3241	4	124
487	Intercomparison of four different in-situ techniques for ambient formaldehyde measurements in urban air. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2881-2900	6.8	124
486	Changes of hygroscopicity and morphology during ageing of diesel soot. <i>Environmental Research Letters</i> , 2011 , 6, 034026	6.2	121
485	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. <i>Geophysical Research Letters</i> , 2016 , 43, 7735-7744	4.9	119
484	Wintertime aerosol chemistry and haze evolution in an extremely polluted city of the North China Plain: significant contribution from coal and biomass combustion. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4751-4768	6.8	117
483	Biomass burning contributions to urban aerosols in a coastal Mediterranean city. <i>Science of the Total Environment</i> , 2012 , 427-428, 175-90	10.2	113
482	Identification of significant precursor gases of secondary organic aerosols from residential wood combustion. <i>Scientific Reports</i> , 2016 , 6, 27881	4.9	112
481	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5773-5801	6.8	112
480	Processing of biomass-burning aerosol in the eastern Mediterranean during summertime. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4793-4807	6.8	111
479	Aged organic aerosol in the Eastern Mediterranean: the Finokalia Aerosol Measurement Experiment 2008. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4167-4186	6.8	109
478	Two-stroke scooters are a dominant source of air pollution in many cities. <i>Nature Communications</i> , 2014 , 5, 3749	17.4	103

477	Strong influence of lowermost stratospheric ozone on lower tropospheric background ozone changes over Europe. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	102
476	Volatility and hygroscopicity of aging secondary organic aerosol in a smog chamber. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11477-11496	6.8	100
475	On the isolation of OC and EC and the optimal strategy of radiocarbon-based source apportionment of carbonaceous aerosols. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10841-10856	6.8	99
474	Real-world emission factors for antimony and other brake wear related trace elements: size-segregated values for light and heavy duty vehicles. <i>Environmental Science & Technology</i> , 2009 , 43, 8072-8	10.3	99
473	Labile Peroxides in Secondary Organic Aerosol. <i>CheM</i> , 2016 , 1, 603-616	16.2	98
472	Analysis of the hygroscopic and volatile properties of ammonium sulphate seeded and unseeded SOA particles. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 721-732	6.8	97
471	Quantification of the carbonaceous matter origin in submicron marine aerosol by $\delta^{13}\text{C}$ and $\delta^{14}\text{C}$ isotope analysis. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8593-8606	6.8	96
470	OH measurements during the First Aerosol Characterization Experiment (ACE 1): Observations and model comparisons. <i>Journal of Geophysical Research</i> , 1998 , 103, 16713-16729		94
469	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , 2017 , 7, 4926	4.9	92
468	Insights into characteristics, sources, and evolution of submicron aerosols during harvest seasons in the Yangtze River delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1331-1349	6.8	92
467	ACTRIS ACSM intercomparison [Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2555-2576	4	92
466	Effective Henry's law partitioning and the salting constant of glyoxal in aerosols containing sulfate. <i>Environmental Science & Technology</i> , 2013 , 47, 4236-44	10.3	91
465	Inter-comparison of laboratory smog chamber and flow reactor systems on organic aerosol yield and composition. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2315-2332	4	90
464	OH clock determination by proton transfer reaction mass spectrometry at an environmental chamber. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 647-656	4	90
463	Real-time measurement of oligomeric species in secondary organic aerosol with the aerosol time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2006 , 78, 2130-7	7.8	90
462	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. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 933-959	6.8	89
461	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the volatility-basis-set approach within the CHIMERE model. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5767-5790	6.8	88
460	Quantitative determination of carbonaceous particle mixing state in Paris using single-particle mass spectrometer and aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9479-9496	6.8	87

459	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. <i>PLoS ONE</i> , 2015 , 10, e0126536	3.7	87
458	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 23-39	4	86
457	Meteorology, Air Quality, and Health in London: The ClearFlo Project. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 779-804	6.1	84
456	Presentation of the EURODELTA III intercomparison exercise [Evaluation of the chemistry transport models' performance on criteria pollutants and joint analysis with meteorology. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12667-12701	6.8	84
455	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2917-2931	6.8	84
454	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8945-8963	6.8	84
453	Contribution of the Middle Eastern dust source areas to PM10 levels in urban receptors: Case study of Tehran, Iran. <i>Atmospheric Environment</i> , 2013 , 75, 287-295	5.3	83
452	Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements. <i>International Journal of Mass Spectrometry</i> , 2004 , 239, 117-128 ¹⁻⁹		82
451	Overview of the impact of wood burning emissions on carbonaceous aerosols and PM in large parts of the Alpine region. <i>Atmospheric Environment</i> , 2014 , 89, 64-75	5.3	81
450	Fine and coarse PM composition and sources in rural and urban sites in Switzerland: local or regional pollution?. <i>Science of the Total Environment</i> , 2012 , 427-428, 191-202	10.2	81
449	Photolysis frequency measurement techniques: results of a comparison within the ACCENT project. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5373-5391	6.8	81
448	Aerosol climatology and planetary boundary influence at the Jungfrauoch analyzed by synoptic weather types. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5931-5944	6.8	80
447	Urban and rural aerosol characterization of summer smog events during the PIPAPO field campaign in Milan, Italy. <i>Journal of Geophysical Research</i> , 2002 , 107, LOP 6-1		80
446	ACTRIS ACSM intercomparison [Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5063-5087	4	79
445	Oxygenated volatile organic compounds (OVOCs) at an urban background site in Zürich (Europe): Seasonal variation and source allocation. <i>Atmospheric Environment</i> , 2007 , 41, 8409-8423	5.3	79
444	Characterization of primary and secondary wood combustion products generated under different burner loads. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2825-2841	6.8	78
443	Contribution of ship emissions to the concentration and deposition of air pollutants in Europe. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1895-1906	6.8	76
442	Seasonal differences in oxygenated organic aerosol composition: implications for emissions sources and factor analysis. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6993-7002	6.8	75

441	Primary and secondary organic aerosol origin by combined gas-particle phase source apportionment. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8411-8426	6.8	75
440	Radiocarbon analysis of elemental and organic carbon in Switzerland during winter-smog episodes from 2008 to 2012 [Part 1: Source apportionment and spatial variability. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13551-13570	6.8	74
439	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10997-11016	6.8	74
438	Radiocarbon-based source apportionment of carbonaceous aerosols at a regional background site on Hainan Island, South China. <i>Environmental Science & Technology</i> , 2014 , 48, 2651-9	10.3	73
437	Seasonal trends, chemical speciation and source apportionment of fine PM in Tehran. <i>Atmospheric Environment</i> , 2017 , 153, 70-82	5.3	72
436	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9577-9591	6.8	72
435	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9415-9430	6.8	72
434	Source characterization of highly oxidized multifunctional compounds in a boreal forest environment using positive matrix factorization. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12715-12731	6.8	71
433	Inorganic Salt Interference on CO in Aerodyne AMS and ACSM Organic Aerosol Composition Studies. <i>Environmental Science & Technology</i> , 2016 , 50, 10494-10503	10.3	70
432	Source apportionment of organic aerosol from 2-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8469-8489	6.8	70
431	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6818-6835	4.4	70
430	Trace Metals in Soot and PM from Heavy-Fuel-Oil Combustion in a Marine Engine. <i>Environmental Science & Technology</i> , 2018 , 52, 6714-6722	10.3	69
429	Volatile and intermediate volatility organic compounds in suburban Paris: variability, origin and importance for SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10439-10464	6.8	68
428	Towards an online-coupled chemistry-climate model: evaluation of trace gases and aerosols in COSMO-ART. <i>Geoscientific Model Development</i> , 2011 , 4, 1077-1102	6.3	68
427	Measurement of the ambient organic aerosol volatility distribution: application during the Finokalia Aerosol Measurement Experiment (FAME-2008). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 12149-12160	6.8	68
426	Source-Specific Health Risk Analysis on Particulate Trace Elements: Coal Combustion and Traffic Emission As Major Contributors in Wintertime Beijing. <i>Environmental Science & Technology</i> , 2018 , 52, 10967-10974	10.3	68
425	Hygroscopic properties of fresh and aged wood burning particles. <i>Journal of Aerosol Science</i> , 2013 , 56, 15-29	4.3	66
424	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5638-5657	4.4	66

423	A comprehensive emission inventory of biogenic volatile organic compounds in Europe: improved seasonality and land-cover. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1689-1712	6.8	65
422	Seasonal variations in aerosol particle composition at the puy-de-Dôme research station in France. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13047-13059	6.8	65
421	Gas phase precursors to anthropogenic secondary organic aerosol: detailed observations of 1,3,5-trimethylbenzene photooxidation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 635-665	6.8	65
420	Effects of various meteorological conditions and spatial emission resolutions on the ozone concentration and ROG/NO _x limitation in the Milan area (I). <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 423-438	6.8	65
419	Characterization of an aerodynamic lens for transmitting particles greater than 1 micrometer in diameter into the Aerodyne aerosol mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3271-3280	4	64
418	Aerosol quantification with the Aerodyne Aerosol Mass Spectrometer: detection limits and ionizer background effects. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 33-46	4	64
417	Evaluation of the particle measurement programme (PMP) protocol to remove the vehicles' exhaust aerosol volatile phase. <i>Science of the Total Environment</i> , 2010 , 408, 5106-16	10.2	63
416	Wintertime organic and inorganic aerosols in Lanzhou, China: sources, processes, and comparison with the results during summer. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14937-14957	6.8	63
415	Source Apportionment of Elemental Carbon in Beijing, China: Insights from Radiocarbon and Organic Marker Measurements. <i>Environmental Science & Technology</i> , 2015 , 49, 8408-15	10.3	62
414	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2853-2881	6.8	62
413	Observation of Fullerene Soot in Eastern China. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 121-126	11	61
412	Sources and contributions of wood smoke during winter in London: assessing local and regional influences. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3149-3171	6.8	61
411	Aerosol modelling in Europe with a focus on Switzerland during summer and winter episodes. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7355-7373	6.8	61
410	Fine and ultrafine particles in the Zürich (Switzerland) area measured with a mobile laboratory: an assessment of the seasonal and regional variation throughout a year. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1477-1494	6.8	61
409	Physical factors influencing winter precipitation chemistry. <i>Environmental Science & Technology</i> , 1991 , 25, 782-788	10.3	61
408	Wintertime secondary organic aerosol formation in Beijing-Tianjin-Hebei (BTH): contributions of HONO sources and heterogeneous reactions. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2343-2359	6.8	60
407	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. <i>Scientific Reports</i> , 2015 , 5, 11801	4.9	60
406	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11563-11580	6.8	60

405	Characterization of Gas-Phase Organics Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry: Cooking Emissions. <i>Environmental Science & Technology</i> , 2016 , 50, 1243-50	10.3	60
404	Photochemical oxidant formation over southern Switzerland: 1. Results from summer 1994. <i>Journal of Geophysical Research</i> , 1997 , 102, 23345-23362		60
403	Aerosol and trace gas vehicle emission factors measured in a tunnel using an Aerosol Mass Spectrometer and other on-line instrumentation. <i>Atmospheric Environment</i> , 2011 , 45, 2182-2192	5.3	59
402	Climatology of Mountain Venting Induced Elevated Moisture Layers in the Lee of the Alps. <i>Journal of Applied Meteorology and Climatology</i> , 2005 , 44, 620-633		59
401	Oxidative potential of logwood and pellet burning particles assessed by a novel profluorescent nitroxide probe. <i>Environmental Science & Technology</i> , 2010 , 44, 6601-7	10.3	57
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399	Characterizing the impact of urban emissions on regional aerosol particles: airborne measurements during the MEGAPOLI experiment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1397-1412	6.8	56
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145	Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris		6
144	Secondary organic aerosol formation from gasoline vehicle emissions in a new mobile environmental reaction chamber		6
143	Radiocarbon analysis of elemental and organic carbon in Switzerland during winter-smog episodes from 2008 to 2012 [Part 1: Source apportionment and spatial variability]		6
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116	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
115	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland		4
114	Planetary boundary influence at the Jungfrauoch analyzed by aerosol cycles and synoptic weather types		4
113	Observation of viscosity transition in Pinene secondary organic aerosol		4
112	In-situ, satellite measurement and model evidence for a~dominant regional contribution to fine particulate matter levels in the Paris Megacity		4
111	Chemical characterization of submicron regional background aerosols in the Western Mediterranean using an Aerosol Chemical Speciation Monitor		4
110	Characterization of an aerodynamic lens for transmitting particles > 1 micrometer in diameter into the Aerodyne aerosol mass spectrometer		4
109	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry		4
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95	Effect of photochemical aging on the ice nucleation properties of diesel and wood burning particles		3
94	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		3
93	The link between organic aerosol mass loading and degree of oxygenation: an α -pinene photooxidation study		3
92	Sources and contributions of wood smoke during winter in London: assessing local and regional influences		3
91	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010		3
90	Volatile and intermediate-volatility organic compounds in sub-urban Paris: variability, origin and importance for SOA formation		3
89	Organic aerosol concentration and composition over Europe: insights from comparison of regional model predictions with aerosol mass spectrometer factor analysis		3
88	Simulating the formation of carbonaceous aerosol in a European Megacity (Paris) during the MEGAPOLI summer and winter campaigns		3
87	Contribution of ship emissions to the concentration and deposition of air pollutants in Europe		3
86	ACTRIS ACSM intercomparison [Part I: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with Time-of-Flight ACSM (ToF-ACSM), High Resolution ToF Aerosol Mass Spectrometer (HR-ToF-AMS)		3
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68	Seasonal variations in aerosol particle composition at the puy-de-Dôme research station	2
67	Variability of levels of PM, black carbon and particle number concentration in selected European cities	2
66	One decade of parallel PM ₁₀ and PM _{2.5} measurements in Europe: trends and variability	2
65	Processing of biomass burning aerosol in the Eastern Mediterranean during summertime	2
64	Primary and secondary biomass burning aerosols determined by proton nuclear magnetic resonance (H-NMR) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy)	2

63	Fossil vs. non-fossil sources of fine carbonaceous aerosols in four Chinese cities during the extreme winter haze episode in 2013		2
62	Inverse relationship between the degree of oxidation of OOA (oxygenated organic aerosol) and the oxidant OX (O ₃ + NO ₂) due to biogenic emissions		2
61	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter		2
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59	Aerosol source apportionment from 1 year measurements at the CESAR tower at Cabauw, NL		2
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