

Kaspar R Daellenbach

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,714
citations

136950

32
h-index

123424

61
g-index

129
all docs

129
docs citations

129
times ranked

6458
citing authors

#	ARTICLE	IF	CITATIONS
1	High secondary aerosol contribution to particulate pollution during haze events in China. <i>Nature</i> , 2014, 514, 218-222.	27.8	3,582
2	Sources of particulate-matter air pollution and its oxidative potential in Europe. <i>Nature</i> , 2020, 587, 414-419.	27.8	352
3	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.	4.9	300
4	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.	4.9	163
5	Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars. <i>Scientific Reports</i> , 2017, 7, 4926.	3.3	133
6	Labile Peroxides in Secondary Organic Aerosol. <i>CheM</i> , 2016, 1, 603-616.	11.7	132
7	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 23-39.	3.1	110
8	Characterization of Gas-Phase Organics Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry: Cooking Emissions. <i>Environmental Science & Technology</i> , 2016, 50, 1243-1250.	10.0	97
9	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.	4.9	89
10	Inorganic Salt Interference on CO ₂ in Aerodyne AMS and ACSM Organic Aerosol Composition Studies. <i>Environmental Science & Technology</i> , 2016, 50, 10494-10503.	10.0	88
11	Long-term chemical analysis and organic aerosol source apportionment at nine sites in central Europe: source identification and uncertainty assessment. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13265-13282.	4.9	78
12	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8247-8268.	4.9	75
13	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. <i>Faraday Discussions</i> , 2021, 226, 334-347.	3.2	74
14	Exploring the regional pollution characteristics and meteorological formation mechanism of PM _{2.5} in North China during 2013–2017. <i>Environment International</i> , 2020, 134, 105283.	10.0	73
15	Chemical composition, sources and secondary processes of aerosols in Baoji city of northwest China. <i>Atmospheric Environment</i> , 2017, 158, 128-137.	4.1	60
16	Source Apportionment of Brown Carbon Absorption by Coupling Ultraviolet–Visible Spectroscopy with Aerosol Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2018, 5, 302-308.	8.7	60
17	Argon offline-AMS source apportionment of organic aerosol over yearly cycles for an urban, rural, and marine site in northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 117-141.	4.9	59
18	Size-Resolved Identification, Characterization, and Quantification of Primary Biological Organic Aerosol at a European Rural Site. <i>Environmental Science & Technology</i> , 2016, 50, 3425-3434.	10.0	57

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19	Advanced source apportionment of carbonaceous aerosols by coupling offline AMS and radiocarbon size-segregated measurements over a nearly 2-year period. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6187-6206.	4.9	54
20	Variation of size-segregated particle number concentrations in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1201-1216.	4.9	52
21	Indoor terpene emissions from cooking with herbs and pepper and their secondary organic aerosol production potential. <i>Scientific Reports</i> , 2016, 6, 36623.	3.3	51
22	A new method for long-term source apportionment with time-dependent factor profiles and uncertainty assessment using SoFi Pro: application to 1 year of organic aerosol data. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 923-943.	3.1	50
23	Large contribution of fossil fuel derived secondary organic carbon to water soluble organic aerosols in winter haze in China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4005-4017.	4.9	49
24	Terpenes and their oxidation products in the French Landes forest: insights from Vocus PTR-TOF measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1941-1959.	4.9	46
25	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11747-11766.	4.9	42
26	Effect of temperature on the formation of highly oxygenated organic molecules (HOMs) from alpha-pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7609-7625.	4.9	41
27	European aerosol phenomenology â 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. <i>Environment International</i> , 2022, 166, 107325.	10.0	41
28	Impact of anthropogenic and biogenic sources on the seasonal variation in the molecular composition of urban organic aerosols: a field and laboratory study using ultra-high-resolution mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5973-5991.	4.9	40
29	Organic aerosol source apportionment in Zurich using an extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF-MS) â Part I: Biogenic influences and dayânight chemistry in summer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14825-14848.	4.9	38
30	The promotion effect of nitrous acid on aerosol formation in wintertime in Beijing: the possible contribution of traffic-related emissions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13023-13040.	4.9	37
31	Size-segregated particle number and mass concentrations from different emission sources in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12721-12740.	4.9	36
32	Fossil and non-fossil source contributions to atmospheric carbonaceous aerosols during extreme spring grassland fires in Eastern Europe. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5513-5529.	4.9	35
33	Unprecedented Ambient Sulfur Trioxide (SO ₃) Detection: Possible Formation Mechanism and Atmospheric Implications. <i>Environmental Science and Technology Letters</i> , 2020, 7, 809-818.	8.7	34
34	Predominance of secondary organic aerosol to particle-bound reactive oxygen species activity in fine ambient aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14703-14720.	4.9	31
35	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. <i>Nature Geoscience</i> , 2022, 15, 196-202.	12.9	31
36	Size-resolved particle number emissions in Beijing determined from measured particle size distributions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11329-11348.	4.9	28

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37	Long-term sub-micrometer aerosol chemical composition in the boreal forest: inter- and intra-annual variability. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3151-3180.	4.9	26
38	A novel approach for simple statistical analysis of high-resolution mass spectra. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3761-3776.	3.1	24
39	A 3D study on the amplification of regional haze and particle growth by local emissions. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	23
40	Amplified role of potential HONO sources in O ₃ formation in North China Plain during autumn haze aggravating processes. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3275-3302.	4.9	23
41	Time-dependent source apportionment of submicron organic aerosol for a rural site in an alpine valley using a rolling positive matrix factorisation (PMF) window. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15081-15101.	4.9	22
42	Evolution of organic carbon during COVID-19 lockdown period: Possible contribution of nocturnal chemistry. <i>Science of the Total Environment</i> , 2022, 808, 152191.	8.0	21
43	A 1-year characterization of organic aerosol composition and sources using an extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7875-7893.	4.9	20
44	Development of a versatile source apportionment analysis based on positive matrix factorization: a case study of the seasonal variation of organic aerosol sources in Estonia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7279-7295.	4.9	19
45	Oxidative stress-induced inflammation in susceptible airways by anthropogenic aerosol. <i>PLoS ONE</i> , 2020, 15, e0233425.	2.5	19
46	Formation of nighttime sulfuric acid from the ozonolysis of alkenes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5499-5511.	4.9	17
47	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6325-6341.	3.1	16
48	Source-specific light absorption by carbonaceous components in the complex aerosol matrix from yearly filter-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12809-12833.	4.9	15
49	Eight years of sub-micrometre organic aerosol composition data from the boreal forest characterized using a machine-learning approach. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10081-10109.	4.9	14
50	Constructing a data-driven receptor model for organic and inorganic aerosol – a synthesis analysis of eight mass spectrometric data sets from a boreal forest site. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3645-3672.	4.9	13
51	Atmospheric gaseous hydrochloric and hydrobromic acid in urban Beijing, China: detection, source identification and potential atmospheric impacts. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11437-11452.	4.9	12
52	Chemical characteristics and sources of water-soluble organic aerosol in southwest suburb of Beijing. <i>Journal of Environmental Sciences</i> , 2020, 95, 99-110.	6.1	11
53	Insights into atmospheric oxidation processes by performing factor analyses on subranges of mass spectra. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5945-5961.	4.9	11
54	A Comprehensive Nontarget Analysis for the Molecular Reconstruction of Organic Aerosol Composition from Glacier Ice Cores. <i>Environmental Science & Technology</i> , 2019, 53, 12565-12575.	10.0	10

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55	Rapid mass growth and enhanced light extinction of atmospheric aerosols during the heating season haze episodes in Beijing revealed by aerosolâ€™ chemistryâ€™ radiationâ€™ boundary layer interaction. Atmospheric Chemistry and Physics, 2021, 21, 12173-12187.	4.9	10
56	Influence of organic aerosol molecular composition on particle absorptive properties in autumn Beijing. Atmospheric Chemistry and Physics, 2022, 22, 1251-1269.	4.9	8
57	Nontarget Screening Exhibits a Seasonal Cycle of PM_{2.5} Organic Aerosol Composition in Beijing. Environmental Science & Technology, 2022, 56, 7017-7028.	10.0	8
58	Insights into organic-aerosol sources via a novel laser-desorption/ionization mass spectrometry technique applied to one year of PM₁₀ samples from nine sites in central Europe. Atmospheric Chemistry and Physics, 2018, 18, 2155-2174.	4.9	7
59	Influence of Aerosol Chemical Composition on Condensation Sink Efficiency and New Particle Formation in Beijing. Environmental Science and Technology Letters, 2022, 9, 375-382.	8.7	6
60	Source identification and characterization of organic nitrogen in atmospheric aerosols at a suburban site in China. Science of the Total Environment, 2022, 818, 151800.	8.0	3