JÃ¼rgen Schnelle-Kreis

List of Publications by Year
in descending order

97 papers	7,581 citations	109137 35 h-index	54797 84 g-index
109 all docs	109 docs citations	109 times ranked	8116 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 Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. Chemical Reviews, 2015, 115, 3919-3983.	23.0	417
3	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
4	Search criteria and rules for comprehensive two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry analysis of airborne particulate matter. Journal of Chromatography A, 2003, 1019, 233-249.	1.8	143
5	Particle Emissions from a Marine Engine: Chemical Composition and Aromatic Emission Profiles under Various Operating Conditions. Environmental Science & Technology, 2014, 48, 11721-11729.	4.6	131
6	Indoor and outdoor BTX levels in German cities. Science of the Total Environment, 2001, 267, 41-51.	3.9	129
7	Occurrence of particle-associated polycyclic aromatic compounds in ambient air of the city of Munich. Atmospheric Environment, 2001, 35, 71-81.	1.9	121
8	Source apportionment of ambient particles: Comparison of positive matrix factorization analysis applied to particle size distribution and chemical composition data. Atmospheric Environment, 2011, 45, 1849-1857.	1.9	114
9	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
10	Contributions of City-Specific Fine Particulate Matter (PM_{2.5}) to Differential In Vitro Oxidative Stress and Toxicity Implications between Beijing and Guangzhou of China. Environmental Science & Technology, 2019, 53, 2881-2891.	4.6	109
11	Comparison of Emissions from Wood Combustion. Part 1: Emission Factors and Characteristics from Different Small-Scale Residential Heating Appliances Considering Particulate Matter and Polycyclic Aromatic Hydrocarbon (PAH)-Related Toxicological Potential of Particle-Bound Organic Species. Energy & Fuels, 2012, 26, 6695-6704.	2.5	104
12	Semi Volatile Organic Compounds in Ambient PM2.5. Seasonal Trends and Daily Resolved Source Contributions. Environmental Science & Technology, 2007, 41, 3821-3828.	4.6	98
13	Technical Note: In-situ derivatization thermal desorption GC-TOFMS for direct analysis of particle-bound non-polar and polar organic species. Atmospheric Chemistry and Physics, 2011, 11, 8977-8993.	1.9	87
14	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
15	Concentrations and source contributions of particulate organic matter before and after implementation of a low emission zone in Munich, Germany. Environmental Pollution, 2013, 175, 158-167.	3.7	82
16	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
17	The composition of cigarette smoke determines inflammatory cell recruitment to the lung in COPD mouse models. Clinical Science, 2014, 126, 207-221.	1.8	76
18	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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19	Dynamic Changes of the Aerosol Composition and Concentration during Different Burning Phases of Wood Combustion. Energy & Fuels, 2013, 27, 4959-4968.	2.5	70
20	Oxidant denuder sampling for analysis of polycyclic aromatic hydrocarbons and their oxygenated derivates in ambient aerosol: Evaluation of sampling artefact. Chemosphere, 2006, 62, 1889-1898.	4.2	67
21	Application of direct thermal desorption gas chromatography and comprehensive two-dimensional gas chromatography coupled to time of flight mass spectrometry for analysis of organic compounds in ambient aerosol particles. Journal of Separation Science, 2005, 28, 1648-1657.	1.3	65
22	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. Environmental Science and Pollution Research, 2017, 24, 10976-10991.	2.7	65
23	Comparison of Emissions from Wood Combustion. Part 2: Impact of Combustion Conditions on Emission Factors and Characteristics of Particle-Bound Organic Species and Polycyclic Aromatic Hydrocarbon (PAH)-Related Toxicological Potential. Energy & Fuels, 2013, 27, 1482-1491.	2.5	61
24	Concentration of Oxygenated Polycyclic Aromatic Hydrocarbons and Oxygen Free Radical Formation from Urban Particulate Matter. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 1866-1869.	1.1	59
25	Seasonal variation and source estimation of organic compounds in urban aerosol of Augsburg, Germany. Environmental Pollution, 2011, 159, 1861-1868.	3.7	57
26	Size-Resolved Identification, Characterization, and Quantification of Primary Biological Organic Aerosol at a European Rural Site. Environmental Science & Technology, 2016, 50, 3425-3434.	4.6	57
27	Volatile Organic Compounds from Logwood Combustion: Emissions and Transformation under Dark and Photochemical Aging Conditions in a Smog Chamber. Environmental Science & Technology, 2018, 52, 4979-4988.	4.6	57
28	Daytime resolved analysis of polycyclic aromatic hydrocarbons in urban aerosol samples â€“ Impact of sources and meteorological conditions. Chemosphere, 2007, 67, 934-943.	4.2	55
29	An intercomparison study of analytical methods used for quantification of levoglucosan in ambient aerosol filter samples. Atmospheric Measurement Techniques, 2015, 8, 125-147.	1.2	54
30	Organic molecular markers and signature from wood combustion particles in winter ambient aerosols: aerosol mass spectrometer (AMS) and high time-resolved GC-MS measurements in Augsburg, Germany. Atmospheric Chemistry and Physics, 2012, 12, 6113-6128.	1.9	52
31	Seasonal variation of particle-induced oxidative potential of airborne particulate matter in Beijing. Science of the Total Environment, 2017, 579, 1152-1160.	3.9	47
32	Influences of the 2010 EyjafjallajÃ¶kull volcanic plume on air quality in the northern Alpine region. Atmospheric Chemistry and Physics, 2011, 11, 8555-8575.	1.9	46
33	Effect of Atmospheric Aging on Soot Particle Toxicity in Lung Cell Models at the Airâ€“Liquid Interface: Differential Toxicological Impacts of Biogenic and Anthropogenic Secondary Organic Aerosols (SOAs). Environmental Health Perspectives, 2022, 130, 27003.	2.8	44
34	Chemical composition and speciation of particulate organic matter from modern residential small-scale wood combustion appliances. Science of the Total Environment, 2018, 612, 636-648.	3.9	42
35	Influence of wood species on toxicity of log-wood stove combustion aerosols: a parallel animal and air-liquid interface cell exposure study on spruce and pine smoke. Particle and Fibre Toxicology, 2020, 17, 27.	2.8	38
36	Analysis of Gas-Phase Carbonyl Compounds in Emissions from Modern Wood Combustion Appliances: Influence of Wood Type and Combustion Appliance. Energy & Fuels, 2015, 29, 3897-3907.	2.5	37

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37	Fossil and non-fossil source contributions to atmospheric carbonaceous aerosols during extreme spring grassland fires in Eastern Europe. Atmospheric Chemistry and Physics, 2016, 16, 5513-5529.	1.9	35
38	Characterisation of the impact of open biomass burning on urban air quality in Brisbane, Australia. Environment International, 2016, 91, 230-242.	4.8	34
39	Indoor and outdoor air concentrations of BTEX and NO2: correlation of repeated measurements. Journal of Environmental Monitoring, 2004, 6, 807-812.	2.1	33
40	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. Nature Geoscience, 2022, 15, 196-202.	5.4	31
41	Source apportionment of fine particulate matter in a Middle Eastern Metropolis, Tehran-Iran, using PMF with organic and inorganic markers. Science of the Total Environment, 2020, 705, 135330.	3.9	30
42	Are reactive oxygen species (ROS) a suitable metric to predict toxicity of carbonaceous aerosol particles?. Atmospheric Chemistry and Physics, 2022, 22, 1793-1809.	1.9	30
43	Characteristics and sources of PM in seasonal perspective â€“ A case study from one year continuously sampling in Beijing. Atmospheric Pollution Research, 2016, 7, 235-248.	1.8	29
44	Spatial and temporal variability of PM10 sources in Augsburg, Germany. Atmospheric Environment, 2013, 71, 131-139.	1.9	27
45	Micro-scale (Î¼g) radiocarbon analysis of water-soluble organic carbon in aerosol samples. Atmospheric Environment, 2014, 97, 1-5.	1.9	27
46	Integration of air pollution data collected by mobile measurement to derive a preliminary spatiotemporal air pollution profile from two neighboring German-Czech border villages. Science of the Total Environment, 2020, 722, 137632.	3.9	27
47	Chemical characteristics of PM2.5 during haze episodes in spring 2013 in Beijing. Urban Climate, 2017, 22, 51-63.	2.4	26
48	PM2.5 concentration and composition in the urban air of Nanjing, China: Effects of emission control measures applied during the 2014 Youth Olympic Games. Science of the Total Environment, 2019, 652, 1-18.	3.9	26
49	Particle-associated organic compounds and symptoms in myocardial infarction survivors. Inhalation Toxicology, 2011, 23, 431-447.	0.8	24
50	Spatial and temporal variability of source contributions to ambient PM10 during winter in Augsburg, Germany using organic and inorganic tracers. Chemosphere, 2014, 103, 263-273.	4.2	24
51	Gas phase carbonyl compounds in ship emissions: Differences between diesel fuel and heavy fuel oil operation. Atmospheric Environment, 2014, 94, 467-478.	1.9	24
52	Online determination of polycyclic aromatic hydrocarbon formation from a flame soot generator. Analytical and Bioanalytical Chemistry, 2015, 407, 5911-5922.	1.9	23
53	Regional haze formation enhanced the atmospheric pollution levels in the Yangtze River Delta region, China: Implications for anthropogenic sources and secondary aerosol formation. Science of the Total Environment, 2020, 728, 138013.	3.9	22
54	Air pollution in Germany: Spatio-temporal variations and their driving factors based on continuous data from 2008 to 2018. Environmental Pollution, 2021, 276, 116732.	3.7	22

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55	Particle size-dependent concentrations of polycyclic aromatic hydrocarbons. Analyst, The, 1996, 121, 1301-1304.	1.7	20
56	Spatiotemporal Characteristics and Driving Factors of Black Carbon in Augsburg, Germany: Combination of Mobile Monitoring and Street View Images. Environmental Science & Technology, 2021, 55, 160-168.	4.6	19
57	Analysis of particle-associated semi-volatile aromatic and aliphatic hydrocarbons in urban particulate matter on a daily basis. Atmospheric Environment, 2005, , .	1.9	18
58	Daily measurement of organic compounds in ambient particulate matter in Augsburg, Germany: new aspects on aerosol sources and aerosol related health effects. Biomarkers, 2009, 14, 39-44.	0.9	18
59	Ambient PM10 concentrations from wood combustion â€“ Emission modeling and dispersion calculation for the city area of Augsburg, Germany. Atmospheric Environment, 2011, 45, 3466-3474.	1.9	18
60	Organic molecular markers and source contributions in a polluted municipality of north-east Italy: Extended PCA-PMF statistical approach. Environmental Research, 2020, 186, 109587.	3.7	18
61	Exposure to naphthalene and Î²-pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. Environment International, 2022, 166, 107366.	4.8	18
62	Application of direct thermal desorption gas chromatography time-of-flight mass spectrometry for determination of nonpolar organics in low-volume samples from ambient particulate matter and personal samplers. Analytical and Bioanalytical Chemistry, 2011, 401, 3083-3094.	1.9	17
63	Pentachlorophenol in indoor environments. Correlation of PCP concentrations in air and settled dust from floors. Science of the Total Environment, 2000, 256, 125-132.	3.9	16
64	Seasonal variability and source distribution of haze particles from a continuous one-year study in Beijing. Atmospheric Pollution Research, 2018, 9, 627-633.	1.8	14
65	Impact of meteorological conditions on airborne fine particle composition and secondary pollutant characteristics in urban area during winter-time. Meteorologische Zeitschrift, 2016, 25, 267-279.	0.5	13
66	Organic speciation of ambient quasi-ultrafine particulate matter (PM0.36) in Augsburg, Germany: Seasonal variability and source apportionment. Science of the Total Environment, 2018, 615, 828-837.	3.9	13
67	Analysis of mobile monitoring data from the microAethÂ® MA200 for measuring changes in black carbon on the roadside in Augsburg. Atmospheric Measurement Techniques, 2021, 14, 5139-5151.	1.2	12
68	Characteristics of chemical profile, sources and PAH toxicity of PM2.5 in beijing in autumn-winter transit season with regard to domestic heating, pollution control measures and meteorology. Chemosphere, 2021, 276, 130143.	4.2	12
69	Molecular Characterization of Water-Soluble Aerosol Particle Extracts by Ultrahigh-Resolution Mass Spectrometry: Observation of Industrial Emissions and an Atmospherically Aged Wildfire Plume at Lake Baikal. ACS Earth and Space Chemistry, 2022, 6, 1095-1107.	1.2	12
70	Experimental and statistical determination of indicator parameters for the evaluation of fly ash and boiler ash PCDD/PCDF concentration from municipal solid waste incinerators. Chemosphere, 2007, 67, S155-S163.	4.2	11
71	First field application of a thermal desorption resonance-enhanced multiphoton-ionisation single particle time-of-flight mass spectrometer for the on-line detection of particle-bound polycyclic aromatic hydrocarbons. Analytical and Bioanalytical Chemistry, 2011, 401, 3173-3182.	1.9	11
72	Carbonaceous aerosol composition in air masses influenced by large-scale biomass burning: a case study in northwestern Vietnam. Atmospheric Chemistry and Physics, 2021, 21, 8293-8312.	1.9	11

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73	New directions: Beyond sulphur, vanadium and nickel â€“ About source apportionment of ship emissions in emission control areas. Atmospheric Environment, 2017, 163, 190-191.	1.9	10
74	Multi-channel silicone rubber traps as denuders for gasâ€“particle partitioning of aerosols from semi-volatile organic compounds. Environmental Sciences: Processes and Impacts, 2017, 19, 676-686.	1.7	9
75	Elucidating the present-day chemical composition, seasonality and source regions of climate-relevant aerosols across the Arctic land surface. Environmental Research Letters, 2022, 17, 034032.	2.2	9
76	The effect of wind direction on the observed size distribution of particle adsorbed polycyclic aromatic hydrocarbons on an inner city sampling site. Journal of Environmental Monitoring, 1999, 1, 357-360.	2.1	8
77	Why air quality in the Alps remains a matter of concern. The impact of organic pollutants in the alpine area. Environmental Science and Pollution Research, 2014, 21, 252-267.	2.7	8
78	An evaluation of the â€œGGPâ€•personal samplers under semi-volatile aerosols: sampling losses and their implication on occupational risk assessment. Environmental Sciences: Processes and Impacts, 2015, 17, 270-277.	1.7	8
79	Combined land-use and street view image model for estimating black carbon concentrations in urban areas. Atmospheric Environment, 2021, 265, 118719.	1.9	8
80	SHORT-TERM EVAPORATION OF SEMI-VOLATILE N-ALKANE AEROSOL PARTICLES: EXPERIMENTAL AND COMPUTATIONAL APPROACH. Environmental Engineering and Management Journal, 2014, 13, 1775-1785.	0.2	6
81	Personal exposure to various size fractions of ambient particulate matter during the heating and non-heating periods using mobile monitoring approach: A case study in Augsburg, Germany. Atmospheric Pollution Research, 2022, 13, 101483.	1.8	6
82	Corrigendum to â€œGas phase carbonyl compounds in ship emissions: Differences between diesel fuel and heavy fuel oil operationâ€•[Atmos. Environ. 94 (2014) 467â€“478]. Atmospheric Environment, 2015, 112, 369.	1.9	5
83	Combustion process apportionment of carbonaceous particulate emission from a diesel fuel burner. Journal of Aerosol Science, 2016, 100, 61-72.	1.8	5
84	Organische Verbindungen in Feinstaub. Nachrichten Aus Der Chemie, 2006, 54, 676-680.	0.0	4
85	Semi-continuous sampling of health relevant atmospheric particle subfractions for chemical speciation using a rotating drum impactor in series with sequential filter sampler. Environmental Science and Pollution Research, 2016, 23, 7278-7287.	2.7	4
86	Spatial and temporal variation of sources contributing to quasi-ultrafine particulate matter PM0.36 in Augsburg, Germany. Science of the Total Environment, 2018, 631-632, 191-200.	3.9	4
87	Influence of New Year's fireworks on air quality â€“ A case study from 2010 to 2021 in Augsburg, Germany. Atmospheric Pollution Research, 2022, 13, 101341.	1.8	4
88	On the Complementarity and Informative Value of Different Electron Ionization Mass Spectrometric Techniques for the Chemical Analysis of Secondary Organic Aerosols. ACS Earth and Space Chemistry, 2022, 6, 1358-1374.	1.2	4
89	Pentachlorophenol in indoor environments. Does a single measurement of air and dust concentrations represent the contamination?. Journal of Environmental Monitoring, 1999, 1, 353-356.	2.1	3
90	Identification of the sources of primary organic aerosols at urban schools: A molecular marker approach. Environmental Pollution, 2014, 191, 158-165.	3.7	3

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91	Assessment of German population exposure levels to PM10 based on multiple spatial-temporal data. Environmental Science and Pollution Research, 2020, 27, 6637-6648.	2.7	3
92	SmartAQnet: remote and in-situ sensing of urban air quality. , 2017, , .		3
93	Development of a Personal Aerosol Sampler for Monitoring the Particleâ€“Vapour Fractionation of SVOCs in Workplaces. Annals of Work Exposures and Health, 2020, 64, 903-908.	0.6	2
94	Carbonaceous Monolithic Multi-Channel Denuders as Vapourâ€“Particle Partitioning Tools for the Occupational Sampling of Semi-Volatile Organic Compounds. Annals of Work Exposures and Health, 2018, 62, 899-903.	0.6	0
95	Emissions of Organic and Inorganic Pollutants During the Combustion of Wood, Straw and Biogas. , 2013, , 387-422.		0
96	Smart Air Quality Network for spatial high-resolution monitoring in urban area. , 2018, , .		0
97	Assessment of three-dimensional, fine-granular measurement of particulate matter by a smart air quality network in urban area. , 2019, , .		0