

# JÃ¼rgen Schnelle-Kreis

## List of Publications by Year in descending order

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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	Effect of Atmospheric Aging on Soot Particle Toxicity in Lung Cell Models at the Air-Liquid Interface: Differential Toxicological Impacts of Biogenic and Anthropogenic Secondary Organic Aerosols (SOAs). <i>Environmental Health Perspectives</i> , 2022, 130, 27003.	2.8	44
2	Are reactive oxygen species (ROS) a suitable metric to predict toxicity of carbonaceous aerosol particles?. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1793-1809.	1.9	30
3	Influence of New Year's fireworks on air quality – A case study from 2010 to 2021 in Augsburg, Germany. <i>Atmospheric Pollution Research</i> , 2022, 13, 101341.	1.8	4
4	Elucidating the present-day chemical composition, seasonality and source regions of climate-relevant aerosols across the Arctic land surface. <i>Environmental Research Letters</i> , 2022, 17, 034032.	2.2	9
5	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. <i>Nature Geoscience</i> , 2022, 15, 196-202.	5.4	31
6	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. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1095-1107.	1.2	12
7	On the Complementarity and Informative Value of Different Electron Ionization Mass Spectrometric Techniques for the Chemical Analysis of Secondary Organic Aerosols. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1358-1374.	1.2	4
8	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. <i>Atmospheric Pollution Research</i> , 2022, 13, 101483.	1.8	6
9	Exposure to naphthalene and $\beta$ -pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. <i>Environment International</i> , 2022, 166, 107366.	4.8	18
10	Spatiotemporal Characteristics and Driving Factors of Black Carbon in Augsburg, Germany: Combination of Mobile Monitoring and Street View Images. <i>Environmental Science &amp; Technology</i> , 2021, 55, 160-168.	4.6	19
11	Carbonaceous aerosol composition in air masses influenced by large-scale biomass burning: a case study in northwestern Vietnam. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8293-8312.	1.9	11
12	Air pollution in Germany: Spatio-temporal variations and their driving factors based on continuous data from 2008 to 2018. <i>Environmental Pollution</i> , 2021, 276, 116732.	3.7	22
13	Analysis of mobile monitoring data from the microAeth <sup>+</sup> MA200 for measuring changes in black carbon on the roadside in Augsburg. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5139-5151.	1.2	12
14	Characteristics of chemical profile, sources and PAH toxicity of PM <sub>2.5</sub> in Beijing in autumn-winter transit season with regard to domestic heating, pollution control measures and meteorology. <i>Chemosphere</i> , 2021, 276, 130143.	4.2	12
15	Combined land-use and street view image model for estimating black carbon concentrations in urban areas. <i>Atmospheric Environment</i> , 2021, 265, 118719.	1.9	8
16	Assessment of German population exposure levels to PM <sub>10</sub> based on multiple spatial-temporal data. <i>Environmental Science and Pollution Research</i> , 2020, 27, 6637-6648.	2.7	3
17	Source apportionment of fine particulate matter in a Middle Eastern Metropolis, Tehran-Iran, using PMF with organic and inorganic markers. <i>Science of the Total Environment</i> , 2020, 705, 135330.	3.9	30
18	Development of a Personal Aerosol Sampler for Monitoring the Particle-Vapour Fractionation of SVOCs in Workplaces. <i>Annals of Work Exposures and Health</i> , 2020, 64, 903-908.	0.6	2

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19	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. <i>Particle and Fibre Toxicology</i> , 2020, 17, 27.	2.8	38
20	Organic molecular markers and source contributions in a polluted municipality of north-east Italy: Extended PCA-PMF statistical approach. <i>Environmental Research</i> , 2020, 186, 109587.	3.7	18
21	Integration of air pollution data collected by mobile measurement to derive a preliminary spatiotemporal air pollution profile from two neighboring German-Czech border villages. <i>Science of the Total Environment</i> , 2020, 722, 137632.	3.9	27
22	Regional haze formation enhanced the atmospheric pollution levels in the Yangtze River Delta region, China: Implications for anthropogenic sources and secondary aerosol formation. <i>Science of the Total Environment</i> , 2020, 728, 138013.	3.9	22
23	Contributions of City-Specific Fine Particulate Matter (PM <sub>2.5</sub> ) to Differential <i>In Vitro</i> Oxidative Stress and Toxicity Implications between Beijing and Guangzhou of China. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2881-2891.	4.6	109
24	PM <sub>2.5</sub> concentration and composition in the urban air of Nanjing, China: Effects of emission control measures applied during the 2014 Youth Olympic Games. <i>Science of the Total Environment</i> , 2019, 652, 1-18.	3.9	26
25	Assessment of three-dimensional, fine-granular measurement of particulate matter by a smart air quality network in urban area. , 2019, , .		0
26	Volatile Organic Compounds from Logwood Combustion: Emissions and Transformation under Dark and Photochemical Aging Conditions in a Smog Chamber. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4979-4988.	4.6	57
27	Spatial and temporal variation of sources contributing to quasi-ultrafine particulate matter PM <sub>0.36</sub> in Augsburg, Germany. <i>Science of the Total Environment</i> , 2018, 631-632, 191-200.	3.9	4
28	Seasonal variability and source distribution of haze particles from a continuous one-year study in Beijing. <i>Atmospheric Pollution Research</i> , 2018, 9, 627-633.	1.8	14
29	Organic speciation of ambient quasi-ultrafine particulate matter (PM <sub>0.36</sub> ) in Augsburg, Germany: Seasonal variability and source apportionment. <i>Science of the Total Environment</i> , 2018, 615, 828-837.	3.9	13
30	Chemical composition and speciation of particulate organic matter from modern residential small-scale wood combustion appliances. <i>Science of the Total Environment</i> , 2018, 612, 636-648.	3.9	42
31	Carbonaceous Monolithic Multi-Channel Denuders as Vapour-Particle Partitioning Tools for the Occupational Sampling of Semi-Volatile Organic Compounds. <i>Annals of Work Exposures and Health</i> , 2018, 62, 899-903.	0.6	0
32	Smart Air Quality Network for spatial high-resolution monitoring in urban area. , 2018, , .		0
33	Chemical characteristics of PM <sub>2.5</sub> during haze episodes in spring 2013 in Beijing. <i>Urban Climate</i> , 2017, 22, 51-63.	2.4	26
34	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10976-10991.	2.7	65
35	Seasonal variation of particle-induced oxidative potential of airborne particulate matter in Beijing. <i>Science of the Total Environment</i> , 2017, 579, 1152-1160.	3.9	47
36	New directions: Beyond sulphur, vanadium and nickel – About source apportionment of ship emissions in emission control areas. <i>Atmospheric Environment</i> , 2017, 163, 190-191.	1.9	10

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37	Multi-channel silicone rubber traps as denuders for gas-particle partitioning of aerosols from semi-volatile organic compounds. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 676-686.	1.7	9
38	SmartAQnet: remote and in-situ sensing of urban air quality. , 2017, , .		3
39	Impact of meteorological conditions on airborne fine particle composition and secondary pollutant characteristics in urban area during winter-time. <i>Meteorologische Zeitschrift</i> , 2016, 25, 267-279.	0.5	13
40	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.	1.9	35
41	Combustion process apportionment of carbonaceous particulate emission from a diesel fuel burner. <i>Journal of Aerosol Science</i> , 2016, 100, 61-72.	1.8	5
42	Semi-continuous sampling of health relevant atmospheric particle subfractions for chemical speciation using a rotating drum impactor in series with sequential filter sampler. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7278-7287.	2.7	4
43	Characteristics and sources of PM in seasonal perspective – A case study from one year continuously sampling in Beijing. <i>Atmospheric Pollution Research</i> , 2016, 7, 235-248.	1.8	29
44	Characterisation of the impact of open biomass burning on urban air quality in Brisbane, Australia. <i>Environment International</i> , 2016, 91, 230-242.	4.8	34
45	Size-Resolved Identification, Characterization, and Quantification of Primary Biological Organic Aerosol at a European Rural Site. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3425-3434.	4.6	57
46	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.	1.9	163
47	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. <i>Chemical Reviews</i> , 2015, 115, 3919-3983.	23.0	417
48	Corrigendum to “Gas phase carbonyl compounds in ship emissions: Differences between diesel fuel and heavy fuel oil operation” [Atmos. Environ. 94 (2014) 467-478]. <i>Atmospheric Environment</i> , 2015, 112, 369.	1.9	5
49	Source Apportionment of Elemental Carbon in Beijing, China: Insights from Radiocarbon and Organic Marker Measurements. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8408-8415.	4.6	83
50	An intercomparison study of analytical methods used for quantification of levoglucosan in ambient aerosol filter samples. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 125-147.	1.2	54
51	Analysis of Gas-Phase Carbonyl Compounds in Emissions from Modern Wood Combustion Appliances: Influence of Wood Type and Combustion Appliance. <i>Energy &amp; Fuels</i> , 2015, 29, 3897-3907.	2.5	37
52	Characteristics and temporal evolution of particulate emissions from a ship diesel engine. <i>Applied Energy</i> , 2015, 155, 204-217.	5.1	76
53	Online determination of polycyclic aromatic hydrocarbon formation from a flame soot generator. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5911-5922.	1.9	23
54	An evaluation of the “GGP” personal samplers under semi-volatile aerosols: sampling losses and their implication on occupational risk assessment. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 270-277.	1.7	8

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55	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
56	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
57	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
58	Identification of the sources of primary organic aerosols at urban schools: A molecular marker approach. Environmental Pollution, 2014, 191, 158-165.	3.7	3
59	Micro-scale ( $\hat{1}/4$ g) radiocarbon analysis of water-soluble organic carbon in aerosol samples. Atmospheric Environment, 2014, 97, 1-5.	1.9	27
60	High secondary aerosol contribution to particulate pollution during haze events in China. Nature, 2014, 514, 218-222.	13.7	3,582
61	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
62	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
63	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
64	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
65	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
66	Dynamic Changes of the Aerosol Composition and Concentration during Different Burning Phases of Wood Combustion. Energy & Fuels, 2013, 27, 4959-4968.	2.5	70
67	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
68	Spatial and temporal variability of PM10 sources in Augsburg, Germany. Atmospheric Environment, 2013, 71, 131-139.	1.9	27
69	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
70	Emissions of Organic and Inorganic Pollutants During the Combustion of Wood, Straw and Biogas. , 2013, , 387-422.		0
71	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
72	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

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73	Particle-associated organic compounds and symptoms in myocardial infarction survivors. <i>Inhalation Toxicology</i> , 2011, 23, 431-447.	0.8	24
74	Technical Note: In-situ derivatization thermal desorption GC-TOFMS for direct analysis of particle-bound non-polar and polar organic species. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8977-8993.	1.9	87
75	Influences of the 2010 Eyjafjallajökull volcanic plume on air quality in the northern Alpine region. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8555-8575.	1.9	46
76	Seasonal variation and source estimation of organic compounds in urban aerosol of Augsburg, Germany. <i>Environmental Pollution</i> , 2011, 159, 1861-1868.	3.7	57
77	Source apportionment of ambient particles: Comparison of positive matrix factorization analysis applied to particle size distribution and chemical composition data. <i>Atmospheric Environment</i> , 2011, 45, 1849-1857.	1.9	114
78	Ambient PM10 concentrations from wood combustion – Emission modeling and dispersion calculation for the city area of Augsburg, Germany. <i>Atmospheric Environment</i> , 2011, 45, 3466-3474.	1.9	18
79	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. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3083-3094.	1.9	17
80	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. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3173-3182.	1.9	11
81	Daily measurement of organic compounds in ambient particulate matter in Augsburg, Germany: new aspects on aerosol sources and aerosol related health effects. <i>Biomarkers</i> , 2009, 14, 39-44.	0.9	18
82	Concentration of Oxygenated Polycyclic Aromatic Hydrocarbons and Oxygen Free Radical Formation from Urban Particulate Matter. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2007, 70, 1866-1869.	1.1	59
83	Experimental and statistical determination of indicator parameters for the evaluation of fly ash and boiler ash PCDD/PCDF concentration from municipal solid waste incinerators. <i>Chemosphere</i> , 2007, 67, S155-S163.	4.2	11
84	Daytime resolved analysis of polycyclic aromatic hydrocarbons in urban aerosol samples – Impact of sources and meteorological conditions. <i>Chemosphere</i> , 2007, 67, 934-943.	4.2	55
85	Semi Volatile Organic Compounds in Ambient PM2.5. Seasonal Trends and Daily Resolved Source Contributions. <i>Environmental Science &amp; Technology</i> , 2007, 41, 3821-3828.	4.6	98
86	Oxidant denuder sampling for analysis of polycyclic aromatic hydrocarbons and their oxygenated derivatives in ambient aerosol: Evaluation of sampling artefact. <i>Chemosphere</i> , 2006, 62, 1889-1898.	4.2	67
87	Organische Verbindungen in Feinstaub. <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 676-680.	0.0	4
88	Analysis of particle-associated semi-volatile aromatic and aliphatic hydrocarbons in urban particulate matter on a daily basis. <i>Atmospheric Environment</i> , 2005, , .	1.9	18
89	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. <i>Journal of Separation Science</i> , 2005, 28, 1648-1657.	1.3	65
90	Indoor and outdoor air concentrations of BTEX and NO2: correlation of repeated measurements. <i>Journal of Environmental Monitoring</i> , 2004, 6, 807-812.	2.1	33

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91	Search criteria and rules for comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry analysis of airborne particulate matter. <i>Journal of Chromatography A</i> , 2003, 1019, 233-249.	1.8	143
92	Indoor and outdoor BTX levels in German cities. <i>Science of the Total Environment</i> , 2001, 267, 41-51.	3.9	129
93	Occurrence of particle-associated polycyclic aromatic compounds in ambient air of the city of Munich. <i>Atmospheric Environment</i> , 2001, 35, 71-81.	1.9	121
94	Pentachlorophenol in indoor environments. Correlation of PCP concentrations in air and settled dust from floors. <i>Science of the Total Environment</i> , 2000, 256, 125-132.	3.9	16
95	The effect of wind direction on the observed size distribution of particle adsorbed polycyclic aromatic hydrocarbons on an inner city sampling site. <i>Journal of Environmental Monitoring</i> , 1999, 1, 357-360.	2.1	8
96	Pentachlorophenol in indoor environments. Does a single measurement of air and dust concentrations represent the contamination?. <i>Journal of Environmental Monitoring</i> , 1999, 1, 353-356.	2.1	3
97	Particle size-dependent concentrations of polycyclic aromatic hydrocarbons. <i>Analyst</i> , 1996, 121, 1301-1304.	1.7	20