Christer Johansson

List of Publications by Year
in descending order

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108 papers	8,396 citations	53660 45 h-index	48187 88 g-index

114 all docs	114 docs citations	114 times ranked	7910 citing authors

#	Article	IF	Citations
1	Cancer Risk Assessment, Indicators, and Guidelines for Polycyclic Aromatic Hydrocarbons in the Ambient Air. Environmental Health Perspectives, 2002, 110, 451-489.	2.8	1,047
2	Cancer risk assessment, indicators, and guidelines for polycyclic aromatic hydrocarbons in the ambient air.. Environmental Health Perspectives, 2002, 110, 451-488.	2.8	962
3	Chemical and physical characterization of emissions from birch wood combustion in a wood stove. Atmospheric Environment, 2002, 36, 4823-4837.	1.9	278
4	Road traffic emission factors for heavy metals. Atmospheric Environment, 2009, 43, 4681-4688.	1.9	262
5	Real-world traffic emission factors of gases and particles measured in a road tunnel in Stockholm, Sweden. Atmospheric Environment, 2004, 38, 657-673.	1.9	252
6	Particulate matter in the underground of Stockholm. Atmospheric Environment, 2003, 37, 3-9.	1.9	214
7	A review on the effectiveness of street sweeping, washing and dust suppressants as urban PM control methods. Science of the Total Environment, 2010, 408, 3070-3084.	3.9	208
8	Particulate emissions from residential wood combustion in Europe â€“ revised estimates and an evaluation. Atmospheric Chemistry and Physics, 2015, 15, 6503-6519.	1.9	193
9	Spatial & temporal variations of PM10 and particle number concentrations in urban air. Environmental Monitoring and Assessment, 2007, 127, 477-487.	1.3	162
10	The Policy Relevance of Wear Emissions from Road Transport, Now and in the Futureâ€”An International Workshop Report and Consensus Statement. Journal of the Air and Waste Management Association, 2013, 63, 136-149.	0.9	157
11	Estimated Short-Term Effects of Coarse Particles on Daily Mortality in Stockholm, Sweden. Environmental Health Perspectives, 2012, 120, 431-436.	2.8	151
12	Estimation and validation of PM2.5/PM10 exhaust and non-exhaust emission factors for practical street pollution modelling. Atmospheric Environment, 2007, 41, 9370-9385.	1.9	144
13	Emission of NO in a tropical savanna and a cloud forest during the dry season. Journal of Geophysical Research, 1988, 93, 7180-7192.	3.3	137
14	Factors affecting non-tailpipe aerosol particle emissions from paved roads: On-road measurements in Stockholm, Sweden. Atmospheric Environment, 2008, 42, 688-702.	1.9	133
15	A model for vehicle-induced non-tailpipe emissions of particles along Swedish roads. Atmospheric Environment, 2005, 39, 6088-6097.	1.9	125
16	Studies of some measures to reduce road dust emissions from paved roads in Scandinavia. Atmospheric Environment, 2006, 40, 6154-6164.	1.9	120
17	Impacts on air pollution and health by changing commuting from car to bicycle. Science of the Total Environment, 2017, 584-585, 55-63.	3.9	120
18	Effects of soil moisture, temperature, and inorganic nitrogen on nitric oxide emissions from acidic tropical savannah soils. Journal of Geophysical Research, 1993, 98, 14783-14790.	3.3	116

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19	Automobile Tiresâ€"A Potential Source of Highly Carcinogenic Dibenzopyrenes to the Environment. Environmental Science & Technology, 2012, 46, 3326-3334.	4.6	115
20	Source contributions to PM10 and arsenic concentrations in Central Chile using positive matrix factorization. Atmospheric Environment, 2005, 39, 549-561.	1.9	112
21	Comparing land use regression and dispersion modelling to assess residential exposure to ambient air pollution for epidemiological studies. Environment International, 2014, 73, 382-392.	4.8	109
22	Health Impact of PM10, PM2.5 and Black Carbon Exposure Due to Different Source Sectors in Stockholm, Gothenburg and Umea, Sweden. International Journal of Environmental Research and Public Health, 2017, 14, 742.	1.2	105
23	Long-Term Exposure to Particulate Air Pollution, Black Carbon, and Their Source Components in Relation to Ischemic Heart Disease and Stroke. Environmental Health Perspectives, 2019, 127, 107012.	2.8	101
24	Dry deposition of nitrogen dioxide and ozone to coniferous forests. Journal of Geophysical Research, 1993, 98, 5159-5172.	3.3	100
25	A coupled road dust and surface moisture model to predict non-exhaust road traffic induced particle emissions (NORTRIP). Part 1: Road dust loading and suspension modelling. Atmospheric Environment, 2013, 77, 283-300.	1.9	99
26	Field measurements of emission of nitric oxide from fertilized and unfertilized forest soils in Sweden. Journal of Atmospheric Chemistry, 1984, 1, 429-442.	1.4	98
27	Emission of NO from savanna soils during rainy season. Journal of Geophysical Research, 1988, 93, 14193-14198.	3.3	97
28	Simulation of NOx and ultrafine particles in a street canyon in Stockholm, Sweden. Atmospheric Environment, 2004, 38, 2029-2044.	1.9	97
29	The effects of congestions tax on air quality and health. Atmospheric Environment, 2009, 43, 4843-4854.	1.9	93
30	Emission of nitric oxide from arable land. Tellus, Series B: Chemical and Physical Meteorology, 1984, 36B, 25-37.	0.8	90
31	Comparative Health Impact Assessment of Local and Regional Particulate Air Pollutants in Scandinavia. Ambio, 2005, 34, 11-19.	2.8	88
32	Eddy covariance measurements and parameterisation of traffic related particle emissions in an urban environment. Atmospheric Chemistry and Physics, 2006, 6, 769-785.	1.9	87
33	Is Levoglucosan a Suitable Quantitative Tracer for Wood Burning? Comparison with Receptor Modeling on Trace Elements in Lycksele, Sweden. Journal of the Air and Waste Management Association, 2006, 56, 1669-1678.	0.9	85
34	Population exposure and mortality due to regional background PM in Europe â€" Long-term simulations of source region and shipping contributions. Atmospheric Environment, 2009, 43, 3614-3620.	1.9	83
35	A model relating laboratory measurements of rates of nitric oxide production and field measurements of nitric oxide emission from soils. Journal of Geophysical Research, 1989, 94, 6473-6480.	3.3	82
36	Model simulation of ultrafine particles inside a road tunnel. Atmospheric Environment, 2003, 37, 2023-2036.	1.9	76

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37	Trends in black carbon and size-resolved particle number concentrations and vehicle emission factors under real-world conditions. Atmospheric Environment, 2017, 165, 155-168.	1.9	75
38	The role of ambient temperature for particle number concentrations in a street canyon. Atmospheric Environment, 2007, 41, 2145-2155.	1.9	74
39	Influences of Traffic Emissions and Meteorological Conditions on Ambient PM10 and PM2.5 Levels at a Highway Toll Station. Aerosol and Air Quality Research, 2010, 10, 456-462.	0.9	72
40	Urban scale modeling of particle number concentration in Stockholm. Atmospheric Environment, 2005, 39, 1711-1711.	1.9	68
41	Anthropogenic and natural levels of arsenic in PM10 in Central and Northern Chile. Atmospheric Environment, 2002, 36, 3803-3817.	1.9	63
42	A coupled road dust and surface moisture model to predict non-exhaust road traffic induced particle emissions (NORTRIP). Part 2: Surface moisture and salt impact modelling. Atmospheric Environment, 2013, 81, 485-503.	1.9	62
43	Dry deposition of SO2 and NOx in winter. Atmospheric Environment, 1983, 17, 191-192.	1.1	57
44	Contribution of residential wood combustion and other sources to hourly winter aerosol in Northern Sweden determined by positive matrix factorization. Atmospheric Chemistry and Physics, 2008, 8, 3639-3653.	1.9	57
45	Carbon content of atmospheric aerosols in a residential area during the wood combustion season in Sweden. Atmospheric Environment, 2007, 41, 6974-6985.	1.9	52
46	An experimental study of the dry deposition of gaseous nitric acid to snow. Atmospheric Environment, 1986, 20, 1165-1170.	1.1	49
47	Model Simulations of NOxand Ultrafine Particles Close to a Swedish Highway. Environmental Science & Technology, 2004, 38, 6730-6740.	4.6	45
48	Source apportionment of elevated wintertime PAHs by compound-specific radiocarbon analysis. Atmospheric Chemistry and Physics, 2009, 9, 3347-3356.	1.9	45
49	Road Dust Emissions from Paved Roads Measured Using Different Mobile Systems. Journal of the Air and Waste Management Association, 2010, 60, 1422-1433.	0.9	45
50	Volcanic ash over Scandinavia originating from the GrÃmsvÃ¶tn eruptions in May 2011. Journal of Geophysical Research, 2012, 117, .	3.3	41
51	Cancer Risk Assessment of Airborne PAHs Based on in Vitro Mixture Potency Factors. Environmental Science & Technology, 2017, 51, 8805-8814.	4.6	40
52	The influence of residential wood combustion on the concentrations of PM_{2.5} in four Nordic cities. Atmospheric Chemistry and Physics, 2020, 20, 4333-4365.	1.9	40
53	Estimating time series of aerosol particle number concentrations in the five HEAPSS cities on the basis of measured air pollution and meteorological variables. Atmospheric Environment, 2005, 39, 2261-2273.	1.9	39
54	A Random Forest Approach to Estimate Daily Particulate Matter, Nitrogen Dioxide, and Ozone at Fine Spatial Resolution in Sweden. Atmosphere, 2020, 11, 239.	1.0	38

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55	Emission of nitric oxide from soils and termite nests in a Trachypogon savanna of the Orinoco basin. Journal of Atmospheric Chemistry, 1993, 17, 293-306.	1.4	37
56	Pine forest: a negligible sink for atmospheric NO_x in rural Sweden. Tellus, Series B: Chemical and Physical Meteorology, 2022, 39, 426.	0.8	35
57	Comparison of measurement methods for benzene and toluene. Atmospheric Environment, 2003, 37, 1963-1973.	1.9	33
58	Air pollution as a risk factor in health impact assessments of a travel mode shift towards cycling. Global Health Action, 2018, 11, 1429081.	0.7	31
59	A Multi-Pollutant Air Quality Health Index (AQHI) Based on Short-Term Respiratory Effects in Stockholm, Sweden. International Journal of Environmental Research and Public Health, 2019, 16, 105.	1.2	31
60	Modelling road dust emission abatement measures using the NORTRIP model: Vehicle speed and studded tyre reduction. Atmospheric Environment, 2016, 134, 96-108.	1.9	30
61	Can dispersion modeling of air pollution be improved by land-use regression? An example from Stockholm, Sweden. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 575-581.	1.8	30
62	Personal exposure to black carbon in Stockholm, using different intra-urban transport modes. Science of the Total Environment, 2019, 674, 279-287.	3.9	30
63	Trends in air pollutants and health impacts in three Swedish cities over the past three decades. Atmospheric Chemistry and Physics, 2018, 18, 15705-15723.	1.9	29
64	Association between Mortality and Short-Term Exposure to Particles, Ozone and Nitrogen Dioxide in Stockholm, Sweden. International Journal of Environmental Research and Public Health, 2019, 16, 1028.	1.2	29
65	Diurnal variation of atmospheric aerosol during the wood combustion season in Northern Sweden. Atmospheric Environment, 2008, 42, 4113-4125.	1.9	28
66	The relationship between 0.25â€“2.5 Î¼m aerosol and CO₂ emissions over a city. Atmospheric Chemistry and Physics, 2011, 11, 4851-4859.	1.9	28
67	Characterisation and Source Apportionment of Submicron Particle Number Size Distributions in a Busy Street Canyon. Aerosol and Air Quality Research, 2015, 15, 220-233.	0.9	28
68	Comparative health impact assessment of local and regional particulate air pollutants in Scandinavia. Ambio, 2005, 34, 11-9.	2.8	25
69	Determination of semi-volatile and particle-associated polycyclic aromatic hydrocarbons in Stockholm air with emphasis on the highly carcinogenic dibenzopyrene isomers. Atmospheric Environment, 2016, 140, 370-380.	1.9	24
70	Diurnal cycle of O₃ and monoterpenes in a coniferous forest: Importance of atmospheric stability, surface exchange, and chemistry. Journal of Geophysical Research, 1993, 98, 5121-5133.	3.3	23
71	Road salt emissions: A comparison of measurements and modelling using the NORTRIP road dust emission model. Atmospheric Environment, 2016, 141, 508-522.	1.9	23
72	Spatiotemporal distribution of light-absorbing carbon and its relationship to other atmospheric pollutants in Stockholm. Atmospheric Chemistry and Physics, 2011, 11, 11553-11567.	1.9	21

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73	Seasonal and diurnal cycles of 0.25â€“2.5 Î¼m aerosol fluxes over urban Stockholm, Sweden. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 935.	0.8	20
74	Potential health impacts of changes in air pollution exposure associated with moving traffic into a road tunnel. Journal of Exposure Science and Environmental Epidemiology, 2015, 25, 524-531.	1.8	20
75	Road dust load dynamics and influencing factors for six winter seasons in Stockholm, Sweden. Atmospheric Environment: X, 2019, 2, 100014.	0.8	20
76	Regulating and Cultural Ecosystem Services of Urban Green Infrastructure in the Nordic Countries: A Systematic Review. International Journal of Environmental Research and Public Health, 2021, 18, 1219.	1.2	18
77	14C-Based source assessment of soot aerosols in Stockholm and the Swedish EMEP-Aspvreten regional background site. Atmospheric Environment, 2011, 45, 215-222.	1.9	17
78	Analysis of the impact of inhomogeneous emissions in the Operational Street Pollution Model (OSPM). Geoscientific Model Development, 2015, 8, 3231-3245.	1.3	17
79	A feasibility study of mapping light-absorbing carbon using a taxi fleet as a mobile platform. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 23533.	0.8	16
80	Estimating PM2.5 over southern Sweden using space-borne optical measurements. Atmospheric Environment, 2009, 43, 5838-5846.	1.9	15
81	Long-term trends in nitrogen oxides concentrations and on-road vehicle emission factors in Copenhagen, London and Stockholm. Environmental Pollution, 2021, 290, 118105.	3.7	15
82	Volcanic Ash and Daily Mortality in Sweden after the Icelandic Volcano Eruption of May 2011. International Journal of Environmental Research and Public Health, 2013, 10, 6909-6919.	1.2	14
83	The Use of Carbonaceous Particle Exposure Metrics in Health Impact Calculations. International Journal of Environmental Research and Public Health, 2016, 13, 249.	1.2	14
84	Cocaine and cannabinoids in the atmosphere of Northern Europe cities, comparison with Southern Europe and wastewater analysis. Environment International, 2016, 97, 187-194.	4.8	14
85	On particulate emissions from moving trains in a tunnel environment. Transportation Research, Part D: Transport and Environment, 2018, 59, 35-45.	3.2	14
86	Earth observation: An integral part of a smart and sustainable city. Environmental Science and Policy, 2022, 132, 296-307.	2.4	13
87	High-resolution modeling of residential outdoor particulate levels in Sweden. Journal of Exposure Science and Environmental Epidemiology, 2013, 23, 306-314.	1.8	12
88	Evaluation of new model tools for meeting the targets of the EU Air Quality Directive: a case study on the studded tyre use in Sweden. International Journal of Environment and Pollution, 2011, 47, 79.	0.2	11
89	Modeling Effects of Climate Change on Air Quality and Population Exposure in Urban Planning Scenarios. Advances in Meteorology, 2012, 2012, 1-12.	0.6	11
90	Trends in MODIS and AERONET derived aerosol optical thickness over Northern Europe. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1554414.	0.8	11

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91	Summertime diurnal variations of atmospheric peroxides and formaldehyde in Sweden. Journal of Atmospheric Chemistry, 1992, 14, 411-423.	1.4	10
92	Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations. Journal of the Air and Waste Management Association, 2008, 58, 838-848.	0.9	10
93	Associations between Vehicle Exhaust Particles and Ozone at Home Address and Birth Weight. International Journal of Environmental Research and Public Health, 2020, 17, 3836.	1.2	10
94	Near-Source Risk Functions for Particulate Matter Are Critical When Assessing the Health Benefits of Local Abatement Strategies. International Journal of Environmental Research and Public Health, 2021, 18, 6847.	1.2	10
95	Long-term exposure to particulate air pollution and black carbon in relation to natural and cause-specific mortality: a multicohort study in Sweden. BMJ Open, 2021, 11, e046040.	0.8	10
96	Spatiotemporal Variability of Light-Absorbing Carbon Concentration in a Residential Area Impacted by Woodsmoke. Journal of the Air and Waste Management Association, 2010, 60, 356-368.	0.9	8
97	A health economic assessment of air pollution effects under climate neutral vehicle fleet scenarios in Stockholm, Sweden. Journal of Transport and Health, 2021, 22, 101084.	1.1	7
98	Estimating domestic wood burning emissions of particulate matter in two Nordic cities by combining ambient air observations with receptor and dispersion models. Chemical Industry and Chemical Engineering Quarterly, 2010, 16, 237-241.	0.4	6
99	Seasonal Variations in the Daily Mortality Associated with Exposure to Particles, Nitrogen Dioxide, and Ozone in Stockholm, Sweden, from 2000 to 2016. Atmosphere, 2021, 12, 1481.	1.0	6
100	Traffic aerosol emission velocity derived from direct flux measurements over urban Stockholm, Sweden. Atmospheric Environment, 2011, 45, 5725-5731.	1.9	5
101	Potential Effects on Travelersâ€™ Air Pollution Exposure and Associated Mortality Estimated for a Mode Shift from Car to Bicycle Commuting. International Journal of Environmental Research and Public Health, 2020, 17, 7635.	1.2	5
102	Heated submicron particle fluxes using an optical particle counter in urban environment. Atmospheric Chemistry and Physics, 2013, 13, 3087-3096.	1.9	4
103	Overall health impacts of a potential increase in cycle commuting in Stockholm, Sweden. Scandinavian Journal of Public Health, 2022, 50, 552-564.	1.2	4
104	Comparison of measured residential black carbon levels outdoors and indoors with fixed-site monitoring data and with dispersion modelling. Environmental Science and Pollution Research, 2021, 28, 16264-16271.	2.7	3
105	Spaceborne observations of low surface aerosol concentrations in the Stockholm region. Tellus, Series B: Chemical and Physical Meteorology, 2016, 68, 28951.	0.8	2
106	Forecasting Urban Air Quality. Advances in Meteorology, 2012, 2012, 1-2.	0.6	1
107	The dry deposition of sulfur dioxide on a loblolly pine plantation. Atmospheric Environment, 1986, 20, 1311.	1.1	0
108	Short-Term Effects of Particle Number Concentration on Daily Hospital Admissions and Daily Mortality. Epidemiology, 2006, 17, S202.	1.2	0