Otto HÃ¤nninen

List of Publications by Year
in descending order

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84 papers	3,953 citations	101384 36 h-index	123241 61 g-index
88 all docs	88 docs citations	88 times ranked	4924 citing authors

#	Article	IF	Citations
1	Indoor aerosols: from personal exposure to risk assessment. Indoor Air, 2013, 23, 462-487.	2.0	347
2	Environmental Burden of Disease in Europe: Assessing Nine Risk Factors in Six Countries. Environmental Health Perspectives, 2014, 122, 439-446.	2.8	340
3	In-vitro cell exposure studies for the assessment of nanoparticle toxicity in the lungâ€"A dialog between aerosol science and biology. Journal of Aerosol Science, 2011, 42, 668-692.	1.8	264
4	Infiltration of ambient PM2.5 and levels of indoor generated non-ETS PM2.5 in residences of four European cities. Atmospheric Environment, 2004, 38, 6411-6423.	1.9	167
5	Personal exposures and microenvironment concentrations of PM2.5, VOC, NO2 and CO in Oxford, UK. Atmospheric Environment, 2004, 38, 6399-6410.	1.9	166
6	Assessment of indoor air quality in office buildings across Europe â€“ The OFFICAIR study. Science of the Total Environment, 2017, 579, 169-178.	3.9	133
7	Integrated systems for forecasting urban meteorology, air pollution and population exposure. Atmospheric Chemistry and Physics, 2007, 7, 855-874.	1.9	126
8	Perceived Indoor Environment and Occupantsâ€™ Comfort in European â€œModernâ€•Office Buildings: The OFFICAIR Study. International Journal of Environmental Research and Public Health, 2016, 13, 444.	1.2	124
9	Comparison of Black Smoke and PM2.5 Levels in Indoor and Outdoor Environments of Four European Cities. Environmental Science & Technology, 2002, 36, 1191-1197.	4.6	113
10	Assessment of ventilation and indoor air pollutants in nursery and elementary schools in France. Indoor Air, 2016, 26, 350-365.	2.0	100
11	Fine Particle (PM₂₅) Measurement Methodology, Quality Assurance Procedures, and Pilot Results of the EXPOLIS Study. Journal of the Air and Waste Management Association, 1999, 49, 1212-1220.	0.9	86
12	Behavioral and environmental determinants of personal exposures to PM2.5 in EXPOLIS â€“ Helsinki, Finland. Atmospheric Environment, 2001, 35, 2473-2481.	1.9	83
13	VOCs and aldehydes source identification in European office buildingsÂ- The OFFICAIR study. Building and Environment, 2017, 115, 18-24.	3.0	80
14	Reducing burden of disease from residential indoor air exposures in Europe (HEALTHVENT project). Environmental Health, 2016, 15, 35.	1.7	74
15	Reduction potential of urban PM2.5 mortality risk using modern ventilation systems in buildings. Indoor Air, 2005, 15, 246-256.	2.0	70
16	Population exposure to fine particles and estimated excess mortality in Finland from an East European wildfire episode. Journal of Exposure Science and Environmental Epidemiology, 2009, 19, 414-422.	1.8	67
17	Health effects of fine particulate matter in life cycle impact assessment: findings from the Basel Guidance Workshop. International Journal of Life Cycle Assessment, 2015, 20, 276-288.	2.2	65
18	The EXPOLIS study: implications for exposure research and environmental policy in Europe. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 440-456.	1.8	62

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19	Seasonal patterns of outdoor PM infiltration into indoor environments: review and meta-analysis of available studies from different climatological zones in Europe. Air Quality, Atmosphere and Health, 2011, 4, 221-233.	1.5	56
20	Oxidative potential and chemical composition of PM2.5 in office buildings across Europe â€“ The OFFICAIR study. Environment International, 2016, 92-93, 324-333.	4.8	56
21	Refinement of a model for evaluating the population exposure in an urban area. Geoscientific Model Development, 2014, 7, 1855-1872.	1.3	54
22	Characterization of Human Health Risks from Particulate Air Pollution in Selected European Cities. Atmosphere, 2019, 10, 96.	1.0	53
23	Description and demonstration of the EXPOLIS simulation model: Two examples of modeling population exposure to particulate matter. Journal of Exposure Science and Environmental Epidemiology, 2003, 13, 87-99.	1.8	52
24	Future Premature Mortality Due to O3, Secondary Inorganic Aerosols and Primary PM in Europe â€” Sensitivity to Changes in Climate, Anthropogenic Emissions, Population and Building Stock. International Journal of Environmental Research and Public Health, 2015, 12, 2837-2869.	1.2	52
25	Indoor aerosol modeling for assessment of exposure and respiratory tract deposited dose. Atmospheric Environment, 2015, 106, 402-411.	1.9	52
26	On the Development of Health-Based Ventilation Guidelines: Principles and Framework. International Journal of Environmental Research and Public Health, 2018, 15, 1360.	1.2	50
27	Source specific exposure and risk assessment for indoor aerosols. Science of the Total Environment, 2019, 668, 13-24.	3.9	49
28	Sociodemographic descriptors of personal exposure to fine particles (PM2.5) in EXPOLIS Helsinki. Journal of Exposure Science and Environmental Epidemiology, 2000, 10, 385-393.	1.8	48
29	Winter Ventilation Rates at Primary Schools: Comparison Between Portugal and Finland. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2013, 76, 400-408.	1.1	47
30	Influence of spatial resolution on population PM2.5 exposure and health impacts. Air Quality, Atmosphere and Health, 2019, 12, 705-718.	1.5	44
31	Costs and benefits of low-sulphur fuel standard for Baltic Sea shipping. Journal of Environmental Management, 2016, 184, 431-440.	3.8	41
32	Evaluation of VOC measurements in the EXPOLIS study. Journal of Environmental Monitoring, 2001, 3, 159-165.	2.1	40
33	Personal carbon monoxide exposure in five European cities and its determinants. Atmospheric Environment, 2002, 36, 963-974.	1.9	40
34	EXPOLIS simulation model: PM2.5 application and comparison with measurements in Helsinki. Journal of Exposure Science and Environmental Epidemiology, 2003, 13, 74-85.	1.8	40
35	Personal carbon monoxide exposure levels: contribution of local sources to exposures and microenvironment concentrations in Milan. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 312-322.	1.8	39
36	Indoor gaseous air pollutants determinants in office buildingsâ€”The OFFICAIR project. Indoor Air, 2020, 30, 76-87.	2.0	39

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37	Health Impacts of Ambient Air Pollution in Finland. International Journal of Environmental Research and Public Health, 2018, 15, 736.	1.2	38
38	Maternal Smoking and the Risk of Cancer in Early Life â€“ A Meta-Analysis. PLoS ONE, 2016, 11, e0165040.	1.1	37
39	Health Effects Caused by Primary Fine Particulate Matter (PM2.5) Emitted from Buses in the Helsinki Metropolitan Area, Finland. Risk Analysis, 2005, 25, 151-160.	1.5	36
40	Fine PM measurements: personal and indoor air monitoring. Chemosphere, 2002, 49, 993-1007.	4.2	29
41	Analysis of CO2 monitoring data demonstrates poor ventilation rates in Albanian schools during the cold season. Air Quality, Atmosphere and Health, 2017, 10, 773-782.	1.5	29
42	Occupational and consumer risk estimates for nanoparticles emitted by laser printers. Journal of Nanoparticle Research, 2010, 12, 91-99.	0.8	28
43	Personal day-time exposure to ultrafine particles in different microenvironments. International Journal of Hygiene and Environmental Health, 2015, 218, 188-195.	2.1	28
44	Aerosol-based modelling of infiltration of ambient PM2.5 and evaluation against population-based measurements in homes in Helsinki, Finland. Journal of Aerosol Science, 2013, 66, 111-122.	1.8	24
45	Higher health effects of ambient particles during the warm season: The role of infiltration factors. Science of the Total Environment, 2018, 627, 67-77.	3.9	24
46	Intake fraction distributions for indoor VOC sources in five European cities. Indoor Air, 2007, 17, 372-383.	2.0	22
47	Quantitative Analysis of Environmental Factors in Differential Weighing of Blank Teflon Filters. Journal of the Air and Waste Management Association, 2002, 52, 134-139.	0.9	21
48	Source apportionment of population representative samples of PM2.5 in three European cities using structural equation modelling. Science of the Total Environment, 2007, 384, 77-92.	3.9	21
49	Assessment of population exposure to Polycyclic Aromatic Hydrocarbons (PAHs) using integrated models and evaluation of uncertainties. Atmospheric Environment, 2015, 101, 235-245.	1.9	21
50	Effects of maternal smoking on body size and proportions at birth: a register-based cohort study of 1.4 million births. BMJ Open, 2020, 10, e033465.	0.8	20
51	Deaths Attributable to Air Pollution in Nordic Countries: Disparities in the Estimates. Atmosphere, 2020, 11, 467.	1.0	20
52	Novel second-degree solution to single zone mass-balance equation improves the use of build-up data in estimating ventilation rates in classrooms. Journal of Chemical Health and Safety, 2013, 20, 14-19.	1.1	19
53	Simulation of working population exposures to carbon monoxide using EXPOLIS-Milan microenvironment concentration and time-activity data. Journal of Exposure Science and Environmental Epidemiology, 2004, 14, 154-163.	1.8	18
54	Comparison of different exposure settings in a caseâ€“crossover study on air pollution and daily mortality: counterintuitive results. Journal of Exposure Science and Environmental Epidemiology, 2011, 21, 385-394.	1.8	18

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55	Smoking during pregnancy in Finland â€“ Trends in the MATEX cohort. Scandinavian Journal of Public Health, 2019, 47, 890-898.	1.2	16
56	Analysis of spatial factors, time-activity and infiltration on outdoor generated PM2.5 exposures of school children in five European cities. Science of the Total Environment, 2021, 785, 147111.	3.9	16
57	Challenges in estimating health effects of indoor exposures to outdoor particles: Considerations for regional differences. Science of the Total Environment, 2017, 589, 130-135.	3.9	15
58	Residential Wood Combustion in Finland: PM2.5 Emissions and Health Impacts with and without Abatement Measures. International Journal of Environmental Research and Public Health, 2019, 16, 2920.	1.2	14
59	A review of exposure assessment methods for epidemiological studies of health effects related to industrially contaminated sites. Epidemiologia E Prevenzione, 2018, 42, 21-36.	1.1	14
60	Characterization of Model Error in a Simulation of Fine Particulate Matter Exposure Distributions of the Working Age Population in Helsinki, Finland. Journal of the Air and Waste Management Association, 2005, 55, 446-457.	0.9	10
61	Parameter and model uncertainty in a life-table model for fine particles (PM2.5): a statistical modeling study. Environmental Health, 2007, 6, 24.	1.7	10
62	Integrated Ambient and Microenvironment Model for Estimation of PM10 Exposures of Children in Annual and Episode Settings. Environmental Modeling and Assessment, 2009, 14, 419-429.	1.2	10
63	The role of absolute humidity in respiratory mortality in Guangzhou, a hot and wet city of South China. Environmental Health and Preventive Medicine, 2021, 26, 109.	1.4	10
64	The Proportion of Residences in European Countries with Ventilation Rates below the Regulation Based Limit Value. International Journal of Ventilation, 2013, 12, 129-134.	0.2	9
65	Contribution of Aerosol Sources to Health Impacts. Atmosphere, 2021, 12, 730.	1.0	8
66	Challenges in estimating the health effects of biomass smokeâ€"Response to Sverre Vedal and Steven J. Dutton: Wildfire air pollution and daily mortality in a large urban area. Environmental Research, 2008, 106, 423-424.	3.7	6
67	Integrated model for the estimation of annual, seasonal, and episode PM10 exposures of children in Rome, Italy. Air Quality, Atmosphere and Health, 2011, 4, 169-178.	1.5	6
68	Chained Risk Assessment for Life-Long Disease Burden of Early Exposuresâ€"Demonstration of Concept Using Prenatal Maternal Smoking. International Journal of Environmental Research and Public Health, 2020, 17, 1472.	1.2	6
69	A method for facilitating the use of algae growing on tree trunks as bioindicators of air quality. Environmental Monitoring and Assessment, 1993, 28, 215-220.	1.3	5
70	Focus on exposure to air pollution and related health impacts. Air Quality, Atmosphere and Health, 2011, 4, 159-160.	1.5	5
71	The MATEX cohort â€“ a Finnish population register birth cohort to study health effects of prenatal exposures. BMC Public Health, 2017, 17, 871.	1.2	4
72	Methods of health risk and impact assessment at industrially contaminated sites: a systematic review. Epidemiologia E Prevenzione, 2018, 42, 49-58.	1.1	4

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73	P-217. Epidemiology, 2012, 23, 1.	1.2	3
74	Estimation of health risks and safety margins due to inhalation of ultrafine particles and nanoparticles in selected occupational, consumer and environmental settings. Journal of Physics: Conference Series, 2009, 170, 012031.	0.3	2
75	Indoorâ€“Outdoor Relationships of Particle Number and Mass in European Cities. Handbook of Environmental Chemistry, 2013, , 321-337.	0.2	1
76	Environmental Asthma Reduction Potential Estimates for Selected Mitigation Actions in Finland Using a Life Table Approach. International Journal of Environmental Research and Public Health, 2015, 12, 6506-6522.	1.2	1
77	Effect of Grandmaternal Smoking on Body Size and Proportions at Birth. International Journal of Environmental Research and Public Health, 2021, 18, 4985.	1.2	1
78	Letter to the Editor. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 71, 1051-1051.	1.1	0
79	Inter-comparison of predicted population exposure distributions during four selected episodes in Helsinki and evaluation against measured data. International Journal of Environment and Pollution, 2010, 40, 248.	0.2	0
80	Environmental Burden of Disease in European Countriesâ€”The EBoDE Project. Epidemiology, 2011, 22, S151.	1.2	0
81	P-232. Epidemiology, 2012, 23, 1.	1.2	0
82	Air Quality and Health. International Journal of Environmental Research and Public Health, 2018, 15, 2399.	1.2	0
83	Comparison of Different Exposure Definition in a Case-Crossover Study on Air Pollution and Daily Mortality: Counterintuitive Results. Epidemiology, 2009, 20, S140.	1.2	0
84	Future Air Quality Related Health Effects in Europe and the Nordic Regionâ€”Sensitivity to Changes in Climate, Anthropogenic Emissions, Demography and Building Stock. Springer Proceedings in Complexity, 2016, , 119-124.	0.2	0