

Ole Hertel

List of Publications by Year in descending order

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103
papers

5,785
citations

81900

39
h-index

82547

72
g-index

106
all docs

106
docs citations

106
times ranked

6991
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
2	Personal PM2.5 exposure and markers of oxidative stress in blood.. Environmental Health Perspectives, 2003, 111, 161-166.	6.0	247
3	Personal Exposure to Ultrafine Particles and Oxidative DNA Damage. Environmental Health Perspectives, 2005, 113, 1485-1490.	6.0	233
4	Test of two numerical schemes for use in atmospheric transport-chemistry models. Atmospheric Environment Part A General Topics, 1993, 27, 2591-2611.	1.3	210
5	Spatial PM2.5, NO2, O3 and BC models for Western Europe – Evaluation of spatiotemporal stability. Environment International, 2018, 120, 81-92.	10.0	193
6	Linking exposure to environmental pollutants with biological effects. Mutation Research - Reviews in Mutation Research, 2003, 544, 255-271.	5.5	191
7	Policies for agricultural nitrogen management – trends, challenges and prospects for improved efficiency in Denmark. Environmental Research Letters, 2014, 9, 115002.	5.2	184
8	Correcting a fundamental error in greenhouse gas accounting related to bioenergy. Energy Policy, 2012, 45, 18-23.	8.8	182
9	Personal PM2.5 Exposure and Markers of Oxidative Stress in Blood. Environmental Health Perspectives, 2002, 111, 161-165.	6.0	175
10	Air Pollution from Traffic at the Residence of Children with Cancer. American Journal of Epidemiology, 2001, 153, 433-443.	3.4	163
11	A Study of the Combined Effects of Physical Activity and Air Pollution on Mortality in Elderly Urban Residents: The Danish Diet, Cancer, and Health Cohort. Environmental Health Perspectives, 2015, 123, 557-563.	6.0	146
12	Transition Metals in Personal Samples of PM2.5 and Oxidative Stress in Human Volunteers. Cancer Epidemiology Biomarkers and Prevention, 2005, 14, 1340-1343.	2.5	131
13	A Danish decision-support GIS tool for management of urban air quality and human exposures. Transportation Research, Part D: Transport and Environment, 2001, 6, 229-241.	6.8	128
14	Development and testing of a new variable scale air pollution model – ACDEP. Atmospheric Environment, 1995, 29, 1267-1290.	4.1	123
15	Using measurements of air pollution in streets for evaluation of urban air quality – meteorological analysis and model calculations. Science of the Total Environment, 1996, 189-190, 259-265.	8.0	118
16	A proper choice of route significantly reduces air pollution exposure – A study on bicycle and bus trips in urban streets. Science of the Total Environment, 2008, 389, 58-70.	8.0	114
17	Long-term exposure to fine particulate matter and incidence of diabetes in the Danish Nurse Cohort. Environment International, 2016, 91, 243-250.	10.0	106
18	Actual car fleet emissions estimated from urban air quality measurements and street pollution models. Science of the Total Environment, 1999, 235, 101-109.	8.0	102

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19	Air pollution from traffic and schizophrenia risk. <i>Schizophrenia Research</i> , 2004, 66, 83-85.	2.0	94
20	Physical Activity, Air Pollution, and the Risk of Asthma and Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 855-865.	5.6	94
21	A dynamical ammonia emission parameterization for use in air pollution models. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	86
22	Operational Street Pollution Model (OSPM) - a review of performed application and validation studies, and future prospects. <i>Environmental Chemistry</i> , 2010, 7, 485.	1.5	85
23	Modelling Nitrogen Deposition on a Local Scale – A Review of the Current State of the Art. <i>Environmental Chemistry</i> , 2006, 3, 317.	1.5	79
24	Long-term low-level ambient air pollution exposure and risk of lung cancer – A pooled analysis of 7 European cohorts. <i>Environment International</i> , 2021, 146, 106249.	10.0	79
25	Urban benzene exposure and oxidative DNA damage: influence of genetic polymorphisms in metabolism genes. <i>Science of the Total Environment</i> , 2003, 309, 69-80.	8.0	76
26	An air pollution model for use in epidemiological studies: evaluation with measured levels of nitrogen dioxide and benzene. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2000, 10, 4-14.	3.9	75
27	Personal exposure to PM2.5, black smoke and NO2 in Copenhagen: relationship to bedroom and outdoor concentrations covering seasonal variation. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2005, 15, 413-422.	3.9	74
28	An inventory of tree species in Europe – An essential data input for air pollution modelling. <i>Ecological Modelling</i> , 2008, 217, 292-304.	2.5	71
29	Effects of reduction of NOx on the NO2 levels in urban streets. <i>Science of the Total Environment</i> , 1996, 189-190, 409-415.	8.0	70
30	High resolution multi-scale air quality modelling for all streets in Denmark. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 52, 322-339.	6.8	63
31	Human exposure to outdoor air pollution (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2001, 73, 933-958.	1.9	62
32	Copenhagen – a significant source of birch (<i>Betula</i>) pollen?. <i>International Journal of Biometeorology</i> , 2008, 52, 453-62.	3.0	61
33	Spatial Differentiation in the Characterisation of Photochemical Ozone Formation: The EDIP2003 Methodology. <i>International Journal of Life Cycle Assessment</i> , 2006, 11, 72-80.	4.7	59
34	Personal exposure to PM2.5 and biomarkers of DNA damage. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2003, 12, 191-6.	2.5	58
35	Evaluation of the Danish AirGIS air pollution modeling system against measured concentrations of PM2.5, PM10, and black carbon. <i>Environmental Epidemiology</i> , 2018, 2, e014.	3.0	54
36	Long-Term Exposure to Fine Particle Elemental Components and Natural and Cause-Specific Mortality – a Pooled Analysis of Eight European Cohorts within the ELAPSE Project. <i>Environmental Health Perspectives</i> , 2021, 129, 47009.	6.0	53

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37	Atmospheric nitrogen inputs into the North Sea: effect on productivity. <i>Continental Shelf Research</i> , 2003, 23, 1743-1755.	1.8	48
38	Human exposure to traffic pollution. Experience from Danish studies. <i>Pure and Applied Chemistry</i> , 2001, 73, 137-145.	1.9	45
39	Integrated air-quality monitoring - combined use of measurements and models in monitoring programmes. <i>Environmental Chemistry</i> , 2007, 4, 65.	1.5	44
40	Development of Europe-Wide Models for Particle Elemental Composition Using Supervised Linear Regression and Random Forest. <i>Environmental Science & Technology</i> , 2020, 54, 15698-15709.	10.0	43
41	Long-Term Exposure to Air Pollution and Incidence of Myocardial Infarction: A Danish Nurse Cohort Study. <i>Environmental Health Perspectives</i> , 2020, 128, 57003.	6.0	43
42	Implementing a dynamical ammonia emission parameterization in the large-scale air pollution model ACDEP. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	42
43	Atmospheric input of nitrogen into the North Sea: ANICE project overview. <i>Continental Shelf Research</i> , 2001, 21, 2073-2094.	1.8	41
44	Effects of Leisure-Time and Transport-Related Physical Activities on the Risk of Incident and Recurrent Myocardial Infarction and Interaction With Traffic-Related Air Pollution: A Cohort Study. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	40
45	Long-term exposure to ambient air pollution and incidence of brain tumours: The Danish Nurse Cohort. <i>NeuroToxicology</i> , 2016, 55, 122-130.	3.0	38
46	Ambient benzene at the residence and risk for subtypes of childhood leukemia, lymphoma and CNS tumor. <i>International Journal of Cancer</i> , 2018, 143, 1367-1373.	5.1	38
47	Ammonia Deposition Near Hot Spots: Processes, Models and Monitoring Methods. , 2009, , 205-267.		38
48	Fluxes of ammonia in the coastal marine boundary layer. <i>Atmospheric Environment</i> , 2003, 37, 167-177.	4.1	37
49	Residential Radon and Brain Tumour Incidence in a Danish Cohort. <i>PLoS ONE</i> , 2013, 8, e74435.	2.5	36
50	Atmospheric nitrogen input to the Kattegat. <i>Ophelia</i> , 1995, 42, 5-28.	0.3	35
51	Nitrogen processes in the atmosphere. , 2011, , 177-208.		35
52	Do urban canyons influence street level grass pollen concentrations?. <i>International Journal of Biometeorology</i> , 2014, 58, 1317-1325.	3.0	35
53	Long-term exposure to fine particle elemental components and lung cancer incidence in the ELAPSE pooled cohort. <i>Environmental Research</i> , 2021, 193, 110568.	7.5	32
54	Long-Term Exposure to Road Traffic Noise and Incidence of Diabetes in the Danish Nurse Cohort. <i>Environmental Health Perspectives</i> , 2019, 127, 57006.	6.0	31

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55	Residential radon and lung cancer incidence in a Danish cohort. <i>Environmental Research</i> , 2012, 118, 130-136.	7.5	29
56	Assessing atmospheric nitrogen deposition to natural and semi-natural ecosystems – Experience from Danish studies using the DAMOS. <i>Atmospheric Environment</i> , 2013, 66, 151-160.	4.1	29
57	Comparison of air quality in streets of Copenhagen and Milan, in view of the climatological conditions. <i>Science of the Total Environment</i> , 1996, 189-190, 467-473.	8.0	28
58	ERCC1, XPD and RAI mRNA levels in lymphocytes are not associated with lung cancer risk in a prospective study of Danes. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006, 593, 88-96.	1.0	28
59	Long-term exposure to air pollution and mammographic density in the Danish Diet, Cancer and Health cohort. <i>Environmental Health</i> , 2015, 14, 31.	4.0	28
60	Residential Radon Exposure and Skin Cancer Incidence in a Prospective Danish Cohort. <i>PLoS ONE</i> , 2015, 10, e0135642.	2.5	27
61	A Review of Photocatalytic Materials for Urban NO _x Remediation. <i>Catalysts</i> , 2021, 11, 675.	3.5	27
62	Nitrogen Deposition on Danish Nature. <i>Atmosphere</i> , 2018, 9, 447.	2.3	25
63	Associations of Preconception Exposure to Air Pollution and Greenness with Offspring Asthma and Hay Fever. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5828.	2.6	24
64	Long-term exposure to ambient air pollution and road traffic noise and asthma incidence in adults: The Danish Nurse cohort. <i>Environment International</i> , 2021, 152, 106464.	10.0	24
65	Airborne Cladosporium and Alternaria spore concentrations through 26 years in Copenhagen, Denmark. <i>Aerobiologia</i> , 2020, 36, 141-157.	1.7	22
66	Long-term exposure to low levels of air pollution and mortality adjusting for road traffic noise: A Danish Nurse Cohort study. <i>Environment International</i> , 2020, 143, 105983.	10.0	22
67	The spatial relationship between traffic-related air pollution and noise in two Danish cities: Implications for health-related studies. <i>Science of the Total Environment</i> , 2020, 726, 138577.	8.0	22
68	Is there any interaction between domestic radon exposure and air pollution from traffic in relation to childhood leukemia risk?. <i>Cancer Causes and Control</i> , 2010, 21, 1961-1964.	1.8	21
69	Atmospheric transport and deposition of reactive nitrogen in Europe. , 2011, , 298-316.		21
70	Personal exposure to grass pollen: relating inhaled dose to background concentration. <i>Annals of Allergy, Asthma and Immunology</i> , 2013, 111, 548-554.	1.0	21
71	Predictors of indoor fine particulate matter in infants' bedrooms in Denmark. <i>Environmental Research</i> , 2011, 111, 87-93.	7.5	19
72	Comparison of Road Traffic Noise prediction models: CNOSSOS-EU, Nord2000 and TRANEX. <i>Environmental Pollution</i> , 2021, 270, 116240.	7.5	19

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73	Relative efficiencies of the Burkard 7-Day, Rotorod and Burkard Personal samplers for Poaceae and Urticaceae pollen under field conditions. <i>Annals of Agricultural and Environmental Medicine</i> , 2014, 21, 745-752.	1.0	19
74	Road traffic noise and markers of adiposity in the Danish Nurse Cohort: A cross-sectional study. <i>Environmental Research</i> , 2019, 172, 502-510.	7.5	18
75	Footprints on Ammonia Concentrations from Environmental Regulations. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 1158-1165.	1.9	17
76	Distance to High-Voltage Power Lines and Risk of Childhood Leukemia – an Analysis of Confounding by and Interaction with Other Potential Risk Factors. <i>PLoS ONE</i> , 2014, 9, e107096.	2.5	17
77	Modeling Traffic-Related Air Pollution in Street Canyons of Beijing. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 2060-2066.	1.9	15
78	Economic and environmental analysis of buffer zones as an instrument to reduce ammonia loads to nature areas. <i>Land Use Policy</i> , 2006, 23, 533-541.	5.6	14
79	Modelling of the Atmospheric Transport and Deposition of Ammonia at a National and Regional Scale. , 2009, , 301-358.		14
80	Assessment of impact of unaccounted emission on ambient concentration using DEHM and AERMOD in combination with WRF. <i>Atmospheric Environment</i> , 2016, 142, 406-413.	4.1	13
81	Chapter 1. Urban Air Pollution Climates throughout the World. <i>Issues in Environmental Science and Technology</i> , 0, , 1-22.	0.4	12
82	Monitoring Excess Exposure to Air Pollution for Professional Drivers in London Using Low-Cost Sensors. <i>Atmosphere</i> , 2020, 11, 749.	2.3	12
83	Long-term exposure to ambient air pollution and bladder cancer incidence in a pooled European cohort: the ELAPSE project. <i>British Journal of Cancer</i> , 2022, 126, 1499-1507.	6.4	12
84	Micronucleus frequency in Danish schoolchildren and their mothers from the DEMOCOPHES population. <i>Mutagenesis</i> , 2015, 31, gev054.	2.6	11
85	A parameter estimation and identifiability analysis methodology applied to a street canyon air pollution model. <i>Environmental Modelling and Software</i> , 2016, 84, 165-176.	4.5	11
86	Long-term Exposure to Air Pollution, Road Traffic Noise, and Heart Failure Incidence: The Danish Nurse Cohort. <i>Journal of the American Heart Association</i> , 2021, 10, e021436.	3.7	11
87	Exposure of Danish children to traffic exhaust fumes. <i>Science of the Total Environment</i> , 1996, 189-190, 51-55.	8.0	10
88	Modeling urban background air pollution in Quito, Ecuador. <i>Atmospheric Pollution Research</i> , 2020, 11, 646-666.	3.8	10
89	Assessing the Impacts of Traffic Air Pollution on Human Exposure and Health. , 2008, , 277-299.		10
90	Vehicular pollution modeling using the operational street pollution model (OSPM) for Chembur, Mumbai (India). <i>Environmental Monitoring and Assessment</i> , 2016, 188, 349.	2.7	9

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91	Urban Air Quality: Sources and Concentrations. , 2021, , 193-214.		9
92	Utilizing Monitoring Data and Spatial Analysis Tools for Exposure Assessment of Atmospheric Pollutants in Denmark. ACS Symposium Series, 2013, , 95-122.	0.5	7
93	Micro-scale modelling of the urban wind speed for air pollution applications. Scientific Reports, 2019, 9, 14279.	3.3	7
94	New Directions: Air pollution from traffic and schizophrenia risk. Atmospheric Environment, 2004, 38, 3733-3734.	4.1	4
95	Evaluation of the Urban Background Model (UBM) and AERMOD for Mumbai City. Environmental Modeling and Assessment, 2019, 24, 75-86.	2.2	4
96	Exposure modelingâ€”Using operational air pollution models. Toxicology Letters, 2006, 164, S15.	0.8	3
97	Ammonia Emissions in Europe. Handbook of Environmental Chemistry, 2013, , 141-163.	0.4	3
98	Impact on local air quality of the planned fixed link across Åresund. Science of the Total Environment, 1996, 189-190, 21-26.	8.0	2
99	Urban Health and Wellbeing. Urban Book Series, 2021, , 259-280.	0.6	2
100	Urban Air Quality: Sources and Concentrations. , 2019, , 1-23.		1
101	DNMARK: Danish Nitrogen Mitigation Assessment: Research and Know-how for a Sustainable, Low-Nitrogen Food Production. , 2020, , 363-376.		1
102	Urban air pollution. Physics and Chemistry of the Earth, 2003, 28, 305.	2.9	0
103	Deposition of Nitrogen Compounds to the Danish Coastal Waters. , 2000, , 119-123.		0