Wouter Lefebvre

List of Publications by Year
in descending order

75	2,731	147726	189801
papers	citations	31 h-index	50 g-index

78	78	78	3967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. JAMA Pediatrics, 2017, 171, 1160.	3.3	180
2	Placental mitochondrial methylation and exposure to airborne particulate matter in the early life environment: An ENVIRONAGE birth cohort study. Epigenetics, 2015, 10, 536-544.	1.3	154
3	Prenatal Ambient Air Pollution, Placental Mitochondrial DNA Content, and Birth Weight in the INMA (Spain) and ENVIR ON AGE (Belgium) Birth Cohorts. Environmental Health Perspectives, 2016, 124, 659-665.	2.8	105
4	Biomolecular Markers within the Core Axis of Aging and Particulate Air Pollution Exposure in the Elderly: A Cross-Sectional Study. Environmental Health Perspectives, 2016, 124, 943-950.	2.8	95
5	Childrenâ€™s Urinary Environmental Carbon Load. A Novel Marker Reflecting Residential Ambient Air Pollution Exposure?. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 873-881.	2.5	94
6	Validation of the MIMOSA-AURORA-IFDM model chain for policy support: Modeling concentrations of elemental carbon in Flanders. Atmospheric Environment, 2011, 45, 6705-6713.	1.9	93
7	Presentation and evaluation of an integrated model chain to respond to traffic- and health-related policy questions. Environmental Modelling and Software, 2013, 40, 160-170.	1.9	91
8	Dynamic assessment of exposure to air pollution using mobile phone data. International Journal of Health Geographics, 2016, 15, 14.	1.2	91
9	Mitochondrial oxidative DNA damage and exposure to particulate air pollution in mother-newborn pairs. Environmental Health, 2016, 15, 10.	1.7	85
10	Consistent past half-century trends in the atmosphere, the sea ice and the ocean at high southern latitudes. Climate Dynamics, 2009, 33, 999-1016.	1.7	83
11	Fetal Thyroid Function, Birth Weight, and in Utero Exposure to Fine Particle Air Pollution: A Birth Cohort Study. Environmental Health Perspectives, 2017, 125, 699-705.	2.8	83
12	Lower Placental Leptin Promoter Methylation in Association with Fine Particulate Matter Air Pollution during Pregnancy and Placental Nitrosative Stress at Birth in the ENVIR ON AGE Cohort. Environmental Health Perspectives, 2017, 125, 262-268.	2.8	73
13	Placental Nitrosative Stress and Exposure to Ambient Air Pollution During Gestation: A Population Study. American Journal of Epidemiology, 2016, 184, 442-449.	1.6	70
14	Air pollution-induced placental epigenetic alterations in early life: a candidate miRNA approach. Epigenetics, 2018, 13, 135-146.	1.3	68
15	Health impact assessment of air pollution using a dynamic exposure profile: Implications for exposure and health impact estimates. Environmental Impact Assessment Review, 2012, 36, 42-51.	4.4	64
16	Placental promoter methylation of DNA repair genes and prenatal exposure to particulate air pollution: an ENVIR ON AGE cohort study. Lancet Planetary Health, The, 2018, 2, e174-e183.	5.1	63
17	Detailed Urban Heat Island Projections for Cities Worldwide: Dynamical Downscaling CMIP5 Global Climate Models. Climate, 2015, 3, 391-415.	1.2	61
18	Impact of passenger car NOX emissions on urban NO2 pollution â€“ Scenario analysis for 8 European cities. Atmospheric Environment, 2017, 171, 330-337.	1.9	60

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19	West Antarctic Peninsula sea ice in 2005: Extreme ice compaction and ice edge retreat due to strong anomaly with respect to climate. Journal of Geophysical Research, 2008, 113, .	3.3	58
20	Recent versus chronic exposure to particulate matter air pollution in association with neurobehavioral performance in a panel study of primary schoolchildren. Environment International, 2016, 95, 112-119.	4.8	58
21	Residing in urban areas with higher green space is associated with lower mortality risk: A census-based cohort study with ten years of follow-up. Environment International, 2021, 148, 106365.	4.8	58
22	Influence of the Southern Annular Mode on the sea ice-ocean system: the role of the thermal and mechanical forcing. Ocean Science, 2005, 1, 145-157.	1.3	57
23	Placental circadian pathway methylation and in utero exposure to fine particle air pollution. Environment International, 2018, 114, 231-241.	4.8	55
24	Evaluation of the RIO-IFDM-street canyon model chain. Atmospheric Environment, 2013, 77, 325-337.	1.9	52
25	An analysis of the atmospheric processes driving the largeâ€scale winter sea ice variability in the Southern Ocean. Journal of Geophysical Research, 2008, 113, .	3.3	48
26	Impact of passenger car NOx emissions and NO2 fractions on urban NO2 pollution â€“ Scenario analysis for the city of Antwerp, Belgium. Atmospheric Environment, 2016, 126, 218-224.	1.9	48
27	Modeling the effects of a speed limit reduction on traffic-related elemental carbon (EC) concentrations and population exposure to EC. Atmospheric Environment, 2011, 45, 197-207.	1.9	41
28	Integrated health impact assessment of travel behaviour: Model exploration and application to a fuel price increase. Environment International, 2013, 51, 45-58.	4.8	37
29	Residential urban greenspace and hypertension: A comparative study in two European cities. Environmental Research, 2020, 191, 110032.	3.7	36
30	Left ventricular function in relation to chronic residential air pollution in a general population. European Journal of Preventive Cardiology, 2017, 24, 1416-1428.	0.8	35
31	Cord plasma insulin and in utero exposure to ambient air pollution. Environment International, 2017, 105, 126-132.	4.8	32
32	Recent exposure to ultrafine particles in school children alters miR-222 expression in the extracellular fraction of saliva. Environmental Health, 2016, 15, 80.	1.7	28
33	Neonatal Cord Blood Oxylipins and Exposure to Particulate Matter in the Early-Life Environment: An ENVIR ON AGE Birth Cohort Study. Environmental Health Perspectives, 2017, 125, 691-698.	2.8	27
34	Sex-Specific Associations between Particulate Matter Exposure and Gene Expression in Independent Discovery and Validation Cohorts of Middle-Aged Men and Women. Environmental Health Perspectives, 2017, 125, 660-669.	2.8	27
35	Increasing the spatial resolution of air quality assessments in urban areas: A comparison of biomagnetic monitoring and urban scale modelling. Atmospheric Environment, 2014, 92, 130-140.	1.9	26
36	Neonatal blood pressure in association with prenatal air pollution exposure, traffic, and land use indicators: An ENVIRONAGE birth cohort study. Environment International, 2019, 130, 104853.	4.8	26

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37	PM2.5 and NOx from traffic: Human health impacts, external costs and policy implications from the Belgian perspective. Transportation Research, Part D: Transport and Environment, 2012, 17, 569-577.	3.2	25
38	Integration of population mobility in the evaluation of air quality measures on local and regional scales. Atmospheric Environment, 2012, 59, 67-74.	1.9	25
39	Projected heat-related mortality under climate change in the metropolitan area of Skopje. BMC Public Health, 2016, 16, 407.	1.2	25
40	The contribution of activity-based transport models to air quality modelling: A validation of the ALBATROSSâ€“AURORA model chain. Science of the Total Environment, 2009, 407, 3814-3822.	3.9	24
41	Kalman filter-based air quality forecast adjustment. Atmospheric Environment, 2012, 50, 381-384.	1.9	24
42	Health Impact Assessment of a Predicted Air Quality Change by Moving Traffic from an Urban Ring Road into a Tunnel. The Case of Antwerp, Belgium. PLoS ONE, 2016, 11, e0154052.	1.1	23
43	Newborn sex-specific transcriptome signatures and gestational exposure to fine particles: findings from the ENVIRONAGE birth cohort. Environmental Health, 2017, 16, 52.	1.7	22
44	Transcriptome-wide analyses indicate mitochondrial responses to particulate air pollution exposure. Environmental Health, 2017, 16, 87.	1.7	22
45	Using Large-Scale NO₂ Data from Citizen Science for Air-Quality Compliance and Policy Support. Environmental Science & Technology, 2020, 54, 11070-11078.	4.6	19
46	Variability in the association between long-term exposure to ambient air pollution and mortality by exposure assessment method and covariate adjustment: A census-based country-wide cohort study. Science of the Total Environment, 2022, 804, 150091.	3.9	19
47	Data assimilation of surface air pollutants (O3 and NO2) in the regional-scale air quality model AURORA. Atmospheric Environment, 2012, 60, 99-108.	1.9	16
48	Association of Prenatal Exposure to Ambient Air Pollution With Circulating Histone Levels in Maternal Cord Blood. JAMA Network Open, 2020, 3, e205156.	2.8	14
49	Social inequalities in the associations between urban green spaces, self-perceived health and mortality in Brussels: Results from a census-based cohort study. Health and Place, 2021, 70, 102603.	1.5	12
50	Long-term exposure to residential greenness and neurodegenerative disease mortality among older adults: a 13-year follow-up cohort study. Environmental Health, 2022, 21, 49.	1.7	12
51	Assessment of human exposure to environmental sources of nickel in Europe: Inhalation exposure. Science of the Total Environment, 2015, 521-522, 359-371.	3.9	11
52	Childrenâ€™s microvascular traits and ambient air pollution exposure during pregnancy and early childhood: prospective evidence to elucidate the developmental origin of particle-induced disease. BMC Medicine, 2020, 18, 128.	2.3	10
53	Pre-admission air pollution exposure prolongs the duration of ventilation in intensive care patients. Intensive Care Medicine, 2020, 46, 1204-1212.	3.9	10
54	Long-term exposure to objective and perceived residential greenness and diabetes mortality: A census-based cohort study. Science of the Total Environment, 2022, 821, 153445.	3.9	8

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55	Assessing the environmental impact associated with different trip purposes. Transportation Research, Part D: Transport and Environment, 2013, 18, 110-116.	3.2	7
56	Mapping impact indicators to link airborne ammonia emissions with nitrogen deposition in Natura 2000 sites. Atmospheric Environment, 2017, 166, 120-129.	1.9	7
57	Dynamics of skin microvascular blood flow in 4â€“6-year-old children in association with pre- and postnatal black carbon and particulate air pollution exposure. Environment International, 2021, 157, 106799.	4.8	7
58	Prenatal particulate air pollution exposure and expression of the miR-17/92 cluster in cord blood: Findings from the ENVIRONAGE birth cohort. Environment International, 2020, 142, 105860.	4.8	6
59	A new method for fine-scale assessments of the average urban Heat island over large areas and the effectiveness of nature-based solutions. One Ecosystem, 0, 3, .	0.0	4
60	Calculation scheme for a Gaussian parameterization of the Thompson 1991 wind tunnel building downwash dataset. Atmospheric Environment, 2012, 59, 355-365.	1.9	3
61	Air quality impact of intelligent transportation system actions used in a decision support system for adaptive traffic management. International Journal of Environment and Pollution, 2015, 57, 133.	0.2	2
62	The Effect of Wood Burning on Particulate Matter Concentrations in Flanders, Belgium. Springer Proceedings in Complexity, 2016, , 459-464.	0.2	2
63	Data Interpolating Variational Analysis for the Generation of Atmospheric Pollution Maps at Various Scales. Springer Proceedings in Complexity, 2018, , 231-235.	0.2	2
64	The multi-scale character of air pollution: impact of local measures in relation to European and regional policies - a case study in Antwerp, Belgium. International Journal of Environment and Pollution, 2014, 54, 203.	0.2	1
65	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. Obstetrical and Gynecological Survey, 2018, 73, 259-260.	0.2	1
66	Is Driving 1 km to Work Worse for the Environment Than Driving 1 km for Shopping?. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 79-83.	0.1	1
67	Validating the RIO-IFDM Street Canyon Coupling over Antwerp, Belgium. Springer Proceedings in Complexity, 2014, , 385-389.	0.2	1
68	The Influence of the Changing NOx-Split for Compliance to the European Limit Values in Urban Areas. Springer Proceedings in Complexity, 2014, , 391-394.	0.2	1
69	Assessing Climate Change in Cities Using UrbClim. Springer Proceedings in Complexity, 2016, , 425-430.	0.2	1
70	Combining Models for Assessment of Local Air Quality. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 657-660.	0.1	0
71	Kalman Filter-Based Air Quality Forecast Adjustment. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 177-181.	0.1	0
72	Presentation and Validation of a New Building Downwash Model. Springer Proceedings in Complexity, 2014, , 519-523.	0.2	0

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73	Development of a Screening Tool for Quick Environmental Assessment of Mobility Scenarios. Springer Proceedings in Complexity, 2016, , 419-423.	0.2	0
74	Evaluation of Regional Measures in order to Improve the Air Quality in the North-West European Hot Spot Region. Springer Proceedings in Complexity, 2018, , 407-412.	0.2	0
75	Is the Recent Decrease in Belgian Air Pollution Concentration Levels Due to Meteorology or to Emission Reductions?. Springer Proceedings in Complexity, 2018, , 237-243.	0.2	0