

Ari Karppinen

List of Publications by Year in descending order

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83
papers

3,092
citations

159525

30
h-index

168321

53
g-index

95
all docs

95
docs citations

95
times ranked

3570
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimodal Fusion of Sentinel 1 Images and Social Media Data for Snow Depth Estimation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
2	Input-adaptive linear mixed-effects model for estimating alveolar lung-deposited surface area (LDSA) using multipollutant datasets. Atmospheric Chemistry and Physics, 2022, 22, 1861-1882.	1.9	3
3	Opinion: Insights into updating Ambient Air Quality Directive 2008/50/EC. Atmospheric Chemistry and Physics, 2022, 22, 4801-4808.	1.9	8
4	An operational urban air quality model ENFUSER, based on dispersion modelling and data assimilation. Environmental Modelling and Software, 2022, 156, 105460.	1.9	12
5	Heterogeneous Urban Exposures and Prevalent Hypertension in the Helsinki Capital Region, Finland. International Journal of Environmental Research and Public Health, 2021, 18, 1196.	1.2	4
6	Added Value of Vaisala AQT530 Sensors as a Part of a Sensor Network for Comprehensive Air Quality Monitoring. Frontiers in Environmental Science, 2021, 9, .	1.5	6
7	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
8	Modeling of the Concentrations of Ultrafine Particles in the Plumes of Ships in the Vicinity of Major Harbors. International Journal of Environmental Research and Public Health, 2020, 17, 777.	1.2	13
9	Modelling of the public health costs of fine particulate matter and results for Finland in 2015. Atmospheric Chemistry and Physics, 2020, 20, 9371-9391.	1.9	5
10	A High-Resolution National Emission Inventory and Dispersion Modelling—Is Population Density a Sufficient Proxy Variable?. Springer Proceedings in Complexity, 2020, , 199-204.	0.2	2
11	Characteristics and Mitigation of Vehicular Non-exhaust Particle Emissions in Nordic Conditions. Springer Proceedings in Complexity, 2020, , 211-216.	0.2	0
12	Residential Wood Combustion in Finland: PM _{2.5} Emissions and Health Impacts with and without Abatement Measures. International Journal of Environmental Research and Public Health, 2019, 16, 2920.	1.2	14
13	The impact of measures to reduce ambient air PM ₁₀ concentrations originating from road dust, evaluated for a street canyon in Helsinki. Atmospheric Chemistry and Physics, 2019, 19, 11199-11212.	1.9	18
14	Influence of spatial resolution on population PM _{2.5} exposure and health impacts. Air Quality, Atmosphere and Health, 2019, 12, 705-718.	1.5	44
15	Uncertainty of eddy covariance flux measurements over an urban area based on two towers. Atmospheric Measurement Techniques, 2018, 11, 5421-5438.	1.2	25
16	Recent meteorological and marine studies to support nuclear power plant safety in Finland. Energy, 2018, 165, 1102-1118.	4.5	9
17	Health Impacts of Ambient Air Pollution in Finland. International Journal of Environmental Research and Public Health, 2018, 15, 736.	1.2	38
18	Modelling of the urban concentrations of PM _{2.5} on a high resolution for a period of 35 years, for the assessment of lifetime exposure and health effects. Atmospheric Chemistry and Physics, 2018, 18, 8041-8064.	1.9	33

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19	The Sensitivity of the Predictions of a Roadside Dispersion Model to Meteorological Variables: Evaluation Using Algorithmic Differentiation. Springer Proceedings in Complexity, 2018, , 89-94.	0.2	0
20	Fusion of Air Quality Information: Evaluation of the Enfuser-Methdoology in Finland and a Case Study in China. Springer Proceedings in Complexity, 2018, , 213-218.	0.2	1
21	Evaluation of an urban modelling system against three measurement campaigns in London and Birmingham. Atmospheric Pollution Research, 2017, 8, 38-55.	1.8	6
22	Evaluation of the impact of wood combustion on benzo[<i>a</i>]pyrene (BaP) concentrations; ambient measurements and dispersion modeling in Helsinki, Finland. Atmospheric Chemistry and Physics, 2017, 17, 3475-3487.	1.9	32
23	Sensitivity analysis of the meteorological preprocessor MPP-FMI 3.0 using algorithmic differentiation. Geoscientific Model Development, 2017, 10, 3793-3803.	1.3	1
24	Modelling the dispersion of particle numbers in five European cities. Geoscientific Model Development, 2016, 9, 451-478.	1.3	50
25	Environmental data extraction from heatmaps using the AirMerge system. Multimedia Tools and Applications, 2016, 75, 1589-1613.	2.6	3
26	Guest Editorial: Environmental Multimedia Retrieval. Multimedia Tools and Applications, 2016, 75, 1557-1562.	2.6	0
27	Modelling the Dispersion of Particle Numbers in Five European Cities. Springer Proceedings in Complexity, 2016, , 415-418.	0.2	1
28	Getting the environmental information across: from the Web to the user. Expert Systems, 2015, 32, 405-432.	2.9	4
29	Ontology-centered environmental information delivery for personalized decision support. Expert Systems With Applications, 2015, 42, 5032-5046.	4.4	15
30	Evaluation of Air Quality Using Dynamic Land-use Regression and Fusion of Environmental Information. , 2015, , .		5
31	Fusion of meteorological and air quality data extracted from the web for personalized environmental information services. Environmental Modelling and Software, 2015, 64, 143-155.	1.9	39
32	Personalized Environmental Service Configuration and Delivery Orchestration: The PESCaDO Demonstrator. Lecture Notes in Computer Science, 2015, , 435-440.	1.0	1
33	Refinement of a model for evaluating the population exposure in an urban area. Geoscientific Model Development, 2014, 7, 1855-1872.	1.3	54
34	A model for environmental data extraction from multimedia and its evaluation against various chemical weather forecasting datasets. Ecological Informatics, 2014, 23, 69-82.	2.3	5
35	Comparison of the predictions of two road dust emission models with the measurements of a mobile van. Atmospheric Chemistry and Physics, 2014, 14, 9155-9169.	1.9	14
36	An Overview of the Urban Boundary Layer Atmosphere Network in Helsinki. Bulletin of the American Meteorological Society, 2013, 94, 1675-1690.	1.7	31

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37	Environmental data extraction from multimedia resources. , 2012, , .		9
38	A Three-Step Method for Estimating the Mixing Height Using Ceilometer Data from the Helsinki Testbed. Journal of Applied Meteorology and Climatology, 2012, 51, 2172-2187.	0.6	40
39	Extraction of Environmental Data from On-Line Environmental Information Sources. International Federation for Information Processing, 2012, , 361-370.	0.4	4
40	Personalized Environmental Service Orchestration for Quality of Life Improvement. International Federation for Information Processing, 2012, , 351-360.	0.4	3
41	The Helsinki Testbed: A Mesoscale Measurement, Research, and Service Platform. Bulletin of the American Meteorological Society, 2011, 92, 325-342.	1.7	48
42	Intercomparison of air quality data using principal component analysis, and forecasting of PM10 and PM2.5 concentrations using artificial neural networks, in Thessaloniki and Helsinki. Science of the Total Environment, 2011, 409, 1266-1276.	3.9	204
43	Evaluation of a multiple regression model for the forecasting of the concentrations of NOx and PM10 in Athens and Helsinki. Science of the Total Environment, 2011, 409, 1559-1571.	3.9	177
44	Integrated modeling assessments of the population exposure in Finland to primary PM2.5 from traffic and domestic wood combustion on the resolutions of 1 and 10Åkm. Air Quality, Atmosphere and Health, 2011, 4, 179-188.	1.5	31
45	Evaluation of intake fractions for different subpopulations due to primary fine particulate matter (PM2.5) emitted from domestic wood combustion and traffic in Finland. Air Quality, Atmosphere and Health, 2011, 4, 199-209.	1.5	13
46	Building an Environmental Information System for Personalized Content Delivery. IFIP Advances in Information and Communication Technology, 2011, , 169-176.	0.5	8
47	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
48	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
49	Intake fraction distributions for benzene from vehicles in the Helsinki metropolitan area. Atmospheric Environment, 2009, 43, 301-310.	1.9	24
50	Evaluation of the European population intake fractions for European and Finnish anthropogenic primary fine particulate matter emissions. Atmospheric Environment, 2009, 43, 3052-3059.	1.9	31
51	Intake Fraction for Benzene Traffic Emissions in Helsinki. Alliance for Global Sustainability Bookseries, 2009, , 71-77.	0.2	0
52	An integrated multi-model approach for air quality assessment: Development and evaluation of the OSCAR Air Quality Assessment System. Environmental Modelling and Software, 2008, 23, 268-281.	1.9	39
53	Analysis and evaluation of selected PM10 pollution episodes in the Helsinki Metropolitan Area in 2002. Atmospheric Environment, 2008, 42, 3992-4005.	1.9	17
54	Evaluation and application of a statistical model for assessment of long-range transported proportion of PM2.5 in the United Kingdom and in Finland. Atmospheric Environment, 2008, 42, 3980-3991.	1.9	11

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55	Temporal variations in black carbon concentrations with different time scales in Helsinki during 1996–2005. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1017-1027.	1.9	41
56	Air Quality Forecasting During Summer 2006: Forest Fires as One of Major Pollution Sources in Europe. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008, , 305-312.	0.1	2
57	Intake Fraction for Benzene Traffic Emissions in Helsinki. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008, , 719-720.	0.1	0
58	Chapter 2.11 Dispersion modelling of the concentrations of the fine particulate matter in Europe. <i>Developments in Environmental Science</i> , 2007, 6, 189-199.	0.5	0
59	Integrated systems for forecasting urban meteorology, air pollution and population exposure. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 855-874.	1.9	126
60	Evaluation and modelling of the size fractionated aerosol particle number concentration measurements nearby a major road in Helsinki – Part I: Modelling results within the LIPIKA project. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4065-4080.	1.9	54
61	Evaluation and modeling of the size fractionated aerosol particle number concentration measurements nearby a major road in Helsinki – Part II: Aerosol measurements within the SAPHIRE project. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4081-4094.	1.9	28
62	Chemical composition of aerosols during a major biomass burning episode over northern Europe in spring 2006: Experimental and modelling assessments. <i>Atmospheric Environment</i> , 2007, 41, 3577-3589.	1.9	195
63	Retrieval of mixing height and dust concentration with lidar ceilometer. <i>Boundary-Layer Meteorology</i> , 2007, 124, 117-128.	1.2	204
64	The surface energy balance and the mixing height in urban areas – activities and recommendations of COST-Action 715. <i>Boundary-Layer Meteorology</i> , 2007, 124, 3-24.	1.2	57
65	Mixing height determination by ceilometer. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1485-1493.	1.9	240
66	Meteorological dependence of size-fractionated number concentrations of urban aerosol particles. <i>Atmospheric Environment</i> , 2006, 40, 1427-1440.	1.9	160
67	Urban Population Exposure Assessment: Integration of the Air-Quality Measurements and Expand Model. <i>Epidemiology</i> , 2006, 17, S59.	1.2	0
68	Evaluation of two versions of the HIRLAM numerical weather prediction model during an air pollution episode in southern Finland. <i>Atmospheric Environment</i> , 2005, 39, 2775-2786.	1.9	13
69	Evaluation of an integrated modelling system containing a multi-layer perceptron model and the numerical weather prediction model HIRLAM for the forecasting of urban airborne pollutant concentrations. <i>Atmospheric Environment</i> , 2005, 39, 6524-6536.	1.9	49
70	Evolving the neural network model for forecasting air pollution time series. <i>Engineering Applications of Artificial Intelligence</i> , 2004, 17, 159-167.	4.3	190
71	Evaluation of the OSPM model combined with an urban background model against the data measured in 1997 in Runeberg Street, Helsinki. <i>Atmospheric Environment</i> , 2003, 37, 1101-1112.	1.9	38
72	A model for evaluating the population exposure to ambient air pollution in an urban area. <i>Atmospheric Environment</i> , 2002, 36, 2109-2119.	1.9	109

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73	Measurements and modelling of PM _{2.5} concentrations near a major road in Kuopio, Finland. Atmospheric Environment, 2002, 36, 4057-4068.	1.9	59
74	Evaluation of inversion strengths and mixing heights during extremely stable atmospheric stratification. International Journal of Environment and Pollution, 2001, 16, 603.	0.2	15
75	Validation of the dispersion model CAR-FMI against measurements near a major road. International Journal of Environment and Pollution, 2001, 16, 137.	0.2	4
76	A measurement campaign in a street canyon in Helsinki and comparison of results with predictions of the OSPM model. Atmospheric Environment, 2001, 35, 231-243.	1.9	78
77	Evaluation of the CAR-FMI model against measurements near a major road. Atmospheric Environment, 2001, 35, 949-960.	1.9	64
78	Statistical and diagnostic evaluation of a new-generation urban dispersion modelling system against an extensive dataset in the Helsinki area. Atmospheric Environment, 2001, 35, 4617-4628.	1.9	39
79	A semi-empirical model for urban PM ₁₀ concentrations, and its evaluation against data from an urban measurement network. Atmospheric Environment, 2001, 35, 4433-4442.	1.9	50
80	The refinement of a meteorological pre-processor for the urban environment. International Journal of Environment and Pollution, 2000, 14, 565.	0.2	38
81	Measurements and Modelling of Air Pollution in a Street Canyon in Helsinki. Environmental Monitoring and Assessment, 2000, 65, 371-379.	1.3	14
82	The influence of vehicle emission characteristics and meteorological conditions on urban NO _x concentrations. International Journal of Vehicle Design, 1998, 20, 125.	0.1	6
83	The emissions, dispersion and chemical transformation of traffic-originated nitrogen oxides in the Helsinki metropolitan area. International Journal of Vehicle Design, 1998, 20, 131.	0.1	4