

Mats Sandberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

2,768
citations

28
h-index

52
g-index

66
ext. papers

3,170
ext. citations

4.6
avg, IF

5.24
L-index

#	Paper	IF	Citations
65	Validity of Orifice equation and impact of building parameters on wind-induced natural ventilation rates with minute mean wind pressure difference. <i>Building and Environment</i> , 2022 , 109248	6.5	0
64	Spatial Distribution of City Tweets and Their Densities 2021 , 115-129		0
63	Returning characteristics of pollutants for a local domain in the presence of returning and recirculating airflow in indoor environments. <i>Indoor Air</i> , 2021 , 31, 1267-1280	5.4	3
62	Experimental study of thermal plumes generated by a cluster of high-rise compact buildings under moderate background wind conditions. <i>Building and Environment</i> , 2020 , 181, 107076	6.5	4
61	Influence of chemical reactions and turbulent diffusion on the formation of local pollutant concentration distributions. <i>Building and Environment</i> , 2020 , 168, 106487	6.5	7
60	Living Structure as an Empirical Measurement of City Morphology. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 677	2.9	3
59	Is building ventilation a process of diluting contaminants or delivering clean air?. <i>Indoor and Built Environment</i> , 2020 , 29, 768-774	1.8	10
58	PIV based POD analysis of coherent structures in flow patterns generated by triple interacting buoyant plumes. <i>Building and Environment</i> , 2019 , 158, 165-181	6.5	14
57	The drag force distribution within regular arrays of cubes and its relation to cross ventilation □ Theoretical and experimental analyses. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 189, 91-103	3.7	8
56	Experimental investigation of near-field stream-wise flow development and spatial structure in triple buoyant plumes. <i>Building and Environment</i> , 2019 , 149, 79-89	6.5	15
55	Entrainment and its implications on microclimate ventilation systems: Scaling the velocity and temperature field of a round free jet. <i>Indoor Air</i> , 2019 , 29, 331-346	5.4	5
54	Occupants' perception of air movements and air quality in a simulated classroom with an intermittent air supply system. <i>Indoor and Built Environment</i> , 2019 , 28, 63-76	1.8	9
53	A wind tunnel study of wind-driven airing through open doors. <i>International Journal of Ventilation</i> , 2019 , 18, 113-135	1.1	2
52	Unsteady large-scale flow patterns and dynamic vortex movement in near-field triple buoyant plumes. <i>Building and Environment</i> , 2018 , 142, 288-300	6.5	12
51	Numerical investigation and accuracy verification of indoor environment for an impinging jet ventilated room using computational fluid dynamics. <i>Building and Environment</i> , 2017 , 115, 251-268	6.5	29
50	Single-sided ventilation through external doors: Measurements and model evaluation in five historical churches. <i>Energy and Buildings</i> , 2017 , 141, 114-124	7	22
49	A Socio-Geographic Perspective on Human Activities in Social Media. <i>Geographical Analysis</i> , 2017 , 49, 328-342	2.9	6

48	The effect of building spacing on near-field temporal evolution of triple building plumes. <i>Building and Environment</i> , 2017 , 122, 35-49	6.5	14
47	The impacts of building height variations and building packing densities on flow adjustment and city breathability in idealized urban models. <i>Building and Environment</i> , 2017 , 118, 344-361	6.5	100
46	Direct measurements of the drag force over aligned arrays of cubes exposed to boundary-layer flows. <i>Environmental Fluid Mechanics</i> , 2017 , 17, 373-394	2.2	14
45	CFD and wind-tunnel analysis of outdoor ventilation in a real compact heterogeneous urban area: Evaluation using air delay. <i>Building and Environment</i> , 2017 , 126, 355-372	6.5	78
44	Near-field merging and penetration of triple starting plumes from volumetric heat sources in a calm environment. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 1321-1333	4.9	9
43	Returning and net escape probabilities of contaminant at a local point in indoor environment. <i>Building and Environment</i> , 2017 , 125, 67-76	6.5	11
42	The Influence of Building Packing Densities on Flow Adjustment and City Breathability in Urban-like Geometries. <i>Procedia Engineering</i> , 2017 , 198, 758-769		9
41	Numerical investigation of wind-driven natural ventilation performance in a multi-storey hospital by coupling indoor and outdoor airflow. <i>Indoor and Built Environment</i> , 2016 , 25, 1226-1247	1.8	25
40	Spatial Distribution of City Tweets and Their Densities. <i>Geographical Analysis</i> , 2016 , 48, 337-351	2.9	32
39	Viewpoints on wind and air infiltration phenomena at buildings illustrated by field and model studies. <i>Building and Environment</i> , 2015 , 92, 504-517	6.5	12
38	Characterizing the Heterogeneity of the OpenStreetMap Data and Community. <i>ISPRS International Journal of Geo-Information</i> , 2015 , 4, 535-550	2.9	34
37	City breathability in medium density urban-like geometries evaluated through the pollutant transport rate and the net escape velocity. <i>Building and Environment</i> , 2015 , 94, 166-182	6.5	87
36	Quantitative ventilation assessments of idealized urban canopy layers with various urban layouts and the same building packing density. <i>Building and Environment</i> , 2014 , 79, 152-167	6.5	102
35	Performance evaluation of contaminant removal and air quality control for local ventilation systems using the ventilation index Net Escape Velocity. <i>Building and Environment</i> , 2014 , 79, 78-89	6.5	23
34	The Confinement Effects on Jet Kinetic Momentum Flux Quantified by Measuring the Reaction Force. <i>International Journal of Ventilation</i> , 2014 , 13, 285-298	1.1	0
33	Natural ventilation assessment in typical open and semi-open urban environments under various wind directions. <i>Building and Environment</i> , 2013 , 70, 318-333	6.5	66
32	New ventilation index for evaluating imperfect mixing conditions [Analysis of Net Escape Velocity based on RANS approach. <i>Building and Environment</i> , 2013 , 61, 45-56	6.5	32
31	PIV Study of Ventilation Quality in Certain Occupied Regions of a Two-Dimensional Room Model with Rapidly Varying Flow Rates. <i>International Journal of Ventilation</i> , 2013 , 12, 187-194	1.1	5

30	On the contribution of mean flow and turbulence to city breathability: the case of long streets with tall buildings. <i>Science of the Total Environment</i> , 2012 , 416, 362-73	10.2	61
29	The influence of building height variability on pollutant dispersion and pedestrian ventilation in idealized high-rise urban areas. <i>Building and Environment</i> , 2012 , 56, 346-360	6.5	225
28	The Influence of External Wind in Tunnels. <i>International Journal of Ventilation</i> , 2011 , 10, 31-48	1.1	5
27	Experimental and numerical studies of flows through and within high-rise building arrays and their link to ventilation strategy. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011 , 99, 1036-1053	3.7	51
26	Flow mechanisms and flow capacity in idealized long-street city models. <i>Building and Environment</i> , 2010 , 45, 1042-1053	6.5	19
25	City breathability and its link to pollutant concentration distribution within urban-like geometries. <i>Atmospheric Environment</i> , 2010 , 44, 1894-1903	5.3	182
24	Wind conditions and ventilation in high-rise long street models. <i>Building and Environment</i> , 2010 , 45, 1353-1365	3.65	36
23	Experimental investigation and CFD analysis of cross-ventilated flow through single room detached house model. <i>Building and Environment</i> , 2010 , 45, 2723-2734	6.5	38
22	Pollutant dispersion in idealized city models with different urban morphologies. <i>Atmospheric Environment</i> , 2009 , 43, 6011-6025	5.3	41
21	Experimental analysis of low-Reynolds number free jets. <i>Experiments in Fluids</i> , 2009 , 47, 279-294	2.5	43
20	Power transportation inside stream tube of cross-ventilated simple shaped model and pitched roof house. <i>Building and Environment</i> , 2009 , 44, 1440-1451	6.5	6
19	Age of air and air exchange efficiency in idealized city models. <i>Building and Environment</i> , 2009 , 44, 1714-1723	6.23	99
18	Stream Tube based Analysis of Problems in Prediction of Cross-Ventilation Rate. <i>International Journal of Ventilation</i> , 2009 , 7, 321-334	1.1	21
17	Wind Driven Flow Through Openings - Analysis of the Stream Tube. <i>International Journal of Ventilation</i> , 2006 , 4, 323-336	1.1	12
16	Evaluation of Discharge Coefficients for Window Openings in Wind Driven Natural Ventilation. <i>International Journal of Ventilation</i> , 2006 , 5, 43-52	1.1	26
15	An Alternative View on the Theory of Cross-Ventilation. <i>International Journal of Ventilation</i> , 2004 , 2, 409-418	1.1	28
14	Robustness of Air Distribution in Plenum-Based Ductless Ventilation Systems. <i>International Journal of Ventilation</i> , 2004 , 3, 105-118	1.1	
13	Wind Driven Cross-Flow Analysed as a Catchment Problem and as a Pressure Driven Flow. <i>International Journal of Ventilation</i> , 2003 , 1, 89-101	1.1	18

12	Discomfort due to Vertical Thermal Gradients. <i>Indoor Air</i> , 1996 , 6, 48-54	5.4	28
11	Effects of thermal radiation on airflow with displacement ventilation: an experimental investigation. <i>Energy and Buildings</i> , 1993 , 19, 263-274	7	28
10	Numerical prediction of airflow and heat-radiation interaction in a room with displacement ventilation. <i>Energy and Buildings</i> , 1993 , 20, 27-43	7	30
9	Vertical Temperature Profiles in Rooms Ventilated by Displacement: Full-Scale Measurement and Nodal Modelling. <i>Indoor Air</i> , 1992 , 2, 225-243	5.4	66
8	Microdialysis techniques for studying brain amino acids in the extracellular fluid: Basic and clinical studies. <i>Handbook of Behavioral Neuroscience</i> , 1991 , 7, 407-423		5
7	Extracellular overflow of neuroactive amino acids during severe insulin-induced hypoglycemia: in vivo dialysis of the rat hippocampus. <i>Journal of Neurochemistry</i> , 1986 , 47, 178-84	6	298
6	Amino acids in the dorsal lateral geniculate nucleus of the cat--collection in vivo. <i>Journal of Neuroscience Methods</i> , 1983 , 9, 65-74	3	58
5	Release of endogenous amino acids from superior colliculus of the rabbit: in vitro studies after retinal ablation. <i>Journal of Neurochemistry</i> , 1983 , 40, 917-21	6	45
4	The use of moments for assessing air quality in ventilated rooms. <i>Building and Environment</i> , 1983 , 18, 181-197	6.5	214
3	Release of endogenous amino acids in vitro from the superior colliculus and the hippocampus. <i>Progress in Brain Research</i> , 1982 , 55, 157-66	2.9	9
2	What is ventilation efficiency?. <i>Building and Environment</i> , 1981 , 16, 123-135	6.5	260
1	Potassium stimulated release of axonally transported radioactivity from slices of rabbit superior colliculus. <i>Brain Research</i> , 1980 , 188, 175-83	3.7	13