

# Riccardo Buccolieri

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

3,897  
citations

147566

31  
h-index

118652

62  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2162  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the effects of urban-like intersections on ventilation and pollutant dispersion. <i>Building Simulation</i> , 2022, 15, 419-433.	3.0	10
2	Investigation of typical residential block typologies and their impact on pedestrian-level microclimate in summers in Nanjing, China. <i>Frontiers of Architectural Research</i> , 2022, 11, 278-296.	1.3	18
3	High Spatial Resolution Assessment of the Effect of the Spanish National Air Pollution Control Programme on Street-Level NO <sub>2</sub> Concentrations in Three Neighborhoods of Madrid (Spain) Using Mesoscale and CFD Modelling. <i>Atmosphere</i> , 2022, 13, 248.	1.0	4
4	Obstacles influence on existing urban canyon ventilation and air pollutant concentration: A review of potential measures. <i>Building and Environment</i> , 2022, 214, 108905.	3.0	13
5	CFD modelling: The most useful tool for developing mesoscale urban canopy parameterizations. <i>Building Simulation</i> , 2021, 14, 407-419.	3.0	18
6	Planning of Urban Green Spaces: An Ecological Perspective on Human Benefits. <i>Land</i> , 2021, 10, 105.	1.2	78
7	Combining Chemical Composition Data and Numerical Modelling for the Assessment of Air Quality in a Mediterranean Port City. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2181.	1.3	1
8	Urban ventilation of typical residential streets and impact of building form variation. <i>Sustainable Cities and Society</i> , 2021, 67, 102735.	5.1	35
9	The Challenge in the Management of Historic Trees in Urban Environments during Climate Change: The Case of Corso Trieste (Rome, Italy). <i>Atmosphere</i> , 2021, 12, 500.	1.0	6
10	Urban Obstacles Influence on Street Canyon Ventilation: A Brief Review. <i>Environmental Sciences Proceedings</i> , 2021, 8, .	0.3	2
11	Analysis of Urban Greening Scenarios for Improving Outdoor Thermal Comfort in Neighbourhoods of Lecce (Southern Italy). <i>Climate</i> , 2021, 9, 116.	1.2	8
12	How Ecosystem Services Can Strengthen the Regeneration Policies for Monumental Olive Groves Destroyed by <i>Xylella fastidiosa</i> Bacterium in a Peri-Urban Area. <i>Sustainability</i> , 2021, 13, 8778.	1.6	8
13	Analysis of Olive Grove Destruction by <i>Xylella fastidiosa</i> Bacterium on the Land Surface Temperature in Salento Detected Using Satellite Images. <i>Forests</i> , 2021, 12, 1266.	0.9	5
14	Effect of greening on pollutant dispersion and ventilation at urban street intersections. <i>Building and Environment</i> , 2021, 203, 108075.	3.0	20
15	Climate Change Impacts on Plant Phenology: Grapevine ( <i>Vitis vinifera</i> ) Bud Break in Wintertime in Southern Italy. <i>Foods</i> , 2021, 10, 2769.	1.9	12
16	A Modeling Study of the Influence of Biogenic Emissions on Ozone Concentration in a Mediterranean City. <i>Springer Proceedings in Complexity</i> , 2021, , 301-306.	0.2	0
17	Study of the Effects of Urban Vegetation on Thermal Comfort in a Neighbourhood of Lahti (Finland). <i>Springer Proceedings in Complexity</i> , 2021, , 313-318.	0.2	0
18	Indices employed for the assessment of "urban outdoor ventilation" - A review. <i>Atmospheric Environment</i> , 2020, 223, 117211.	1.9	38

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19	Integrated impacts of tree planting and street aspect ratios on CO dispersion and personal exposure in full-scale street canyons. <i>Building and Environment</i> , 2020, 169, 106529.	3.0	78
20	A Conceptual Framework to Design Green Infrastructure: Ecosystem Services as an Opportunity for Creating Shared Value in Ground Photovoltaic Systems. <i>Land</i> , 2020, 9, 238.	1.2	18
21	Characterization of Urban Greening in a District of Lecce (Southern Italy) for the Analysis of CO <sub>2</sub> Storage and Air Pollutant Dispersion. <i>Atmosphere</i> , 2020, 11, 967.	1.0	11
22	Impact of Urban Vegetation on Outdoor Thermal Comfort: Comparison between a Mediterranean City (Lecce, Italy) and a Northern European City (Lahti, Finland). <i>Forests</i> , 2020, 11, 228.	0.9	50
23	Recurrence Analysis of Vegetation Indices for Highlighting the Ecosystem Response to Drought Events: An Application to the Amazon Forest. <i>Remote Sensing</i> , 2020, 12, 907.	1.8	12
24	Reprint of: Review on urban tree modelling in CFD simulations: Aerodynamic, deposition and thermal effects. <i>Urban Forestry and Urban Greening</i> , 2019, 37, 56-64.	2.3	22
25	A Numerical Study on the Correlation between Sky View Factor and Summer Microclimate of Local Climate Zones. <i>Atmosphere</i> , 2019, 10, 438.	1.0	22
26	Changes in Olive Urban Forests Infected by <i>Xylella fastidiosa</i> : Impact on Microclimate and Social Health. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2642.	1.2	19
27	Characterizing the morphology of real street models and modeling its effect on thermal environment. <i>Energy and Buildings</i> , 2019, 203, 109433.	3.1	25
28	The "plant evaluation model" for the assessment of the impact of vegetation on outdoor microclimate in the urban environment. <i>Building and Environment</i> , 2019, 159, 106151.	3.0	70
29	CFD modelling of vegetation barrier effects on the reduction of traffic-related pollutant concentration in an avenue of Pamplona, Spain. <i>Sustainable Cities and Society</i> , 2019, 48, 101559.	5.1	51
30	Recent Advances in Urban Ventilation Assessment and Flow Modelling. <i>Atmosphere</i> , 2019, 10, 144.	1.0	22
31	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.	1.7	15
32	An Investigation of the Quantitative Correlation between Urban Morphology Parameters and Outdoor Ventilation Efficiency Indices. <i>Atmosphere</i> , 2019, 10, 33.	1.0	40
33	On the Impact of Trees on Ventilation in a Real Street in Pamplona, Spain. <i>Atmosphere</i> , 2019, 10, 697.	1.0	23
34	Study of the effect of green quantity and structure on thermal comfort and air quality in an urban-like residential district by ENVI-met modelling. <i>Building Simulation</i> , 2019, 12, 183-194.	3.0	67
35	Impact of indoor-outdoor temperature differences on dispersion of gaseous pollutant and particles in idealized street canyons with and without viaduct settings. <i>Building Simulation</i> , 2019, 12, 285-297.	3.0	24
36	Spatial Distribution of Air Pollutants in Cities. , 2018, , 75-95.		5

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37	Polycyclic aromatic hydrocarbons in a bakery indoor air: trends, dynamics, and dispersion. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28760-28771.	2.7	7
38	Review on urban tree modelling in CFD simulations: Aerodynamic, deposition and thermal effects. <i>Urban Forestry and Urban Greening</i> , 2018, 31, 212-220.	2.3	135
39	Scale-adaptive morphometric analysis for urban air quality and ventilation applications. <i>Building Research and Information</i> , 2018, 46, 931-951.	2.0	14
40	The impact of trees on street ventilation, NOx and PM2.5 concentrations across heights in Marylebone Rd street canyon, central London. <i>Sustainable Cities and Society</i> , 2018, 41, 227-241.	5.1	89
41	The impact of semi-open settings on ventilation in idealized building arrays. <i>Urban Climate</i> , 2018, 25, 196-217.	2.4	20
42	The Impact of Green Space Layouts on Microclimate and Air Quality in Residential Districts of Nanjing, China. <i>Forests</i> , 2018, 9, 224.	0.9	65
43	Influence of Ship Emissions on Ozone Concentration in a Mediterranean Area: A Modelling Approach. <i>Springer Proceedings in Complexity</i> , 2018, , 317-321.	0.2	2
44	Air quality affected by trees in real street canyons: The case of Marylebone neighbourhood in central London. <i>Urban Forestry and Urban Greening</i> , 2017, 22, 41-53.	2.3	162
45	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.	0.7	15
46	The Impact of Planting Trees on NOx Concentrations: The Case of the Plaza de la Cruz Neighborhood in Pamplona (Spain). <i>Atmosphere</i> , 2017, 8, 131.	1.0	41
47	Assessment of Indoor-Outdoor Particulate Matter Air Pollution: A Review. <i>Atmosphere</i> , 2017, 8, 136.	1.0	69
48	On the influence of viaduct and ground heating on pollutant dispersion in 2D street canyons and toward single-sided ventilated buildings. <i>Atmospheric Pollution Research</i> , 2016, 7, 817-832.	1.8	50
49	Impact of ship emissions on local air quality in a Mediterranean city's harbour after the European sulphur directive. <i>International Journal of Environment and Pollution</i> , 2016, 59, 30.	0.2	9
50	The effects of trees on micrometeorology in a real street canyon: consequences for local air quality. <i>International Journal of Environment and Pollution</i> , 2015, 58, 100.	0.2	36
51	The breathability of compact cities. <i>Urban Climate</i> , 2015, 13, 73-93.	2.4	82
52	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.	3.0	113
53	The Effects of Trees on Micrometeorology in a Medium-Size Mediterranean City: In Situ Experiments and Numerical Simulations. , 2014, , .		1
54	Validation of temperature-perturbation and CFD-based modelling for the prediction of the thermal urban environment: the Lecce (IT) case study. <i>Environmental Modelling and Software</i> , 2014, 60, 69-83.	1.9	61

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55	Study of the urban heat island in Lecce (Italy) by means of ADMS and ENVI-MET. International Journal of Environment and Pollution, 2014, 55, 41.	0.2	7
56	Recent advancements in numerical modelling of flow and dispersion in urban areas: a short review. International Journal of Environment and Pollution, 2013, 52, 172.	0.2	76
57	The influence of building height variability on pollutant dispersion and pedestrian ventilation in idealized high-rise urban areas. Building and Environment, 2012, 56, 346-360.	3.0	314
58	On the contribution of mean flow and turbulence to city breathability: The case of long streets with tall buildings. Science of the Total Environment, 2012, 416, 362-373.	3.9	79
59	Large eddy simulation of the aerodynamic effects of trees on pollutant concentrations in street canyons. Procedia Environmental Sciences, 2011, 4, 17-24.	1.3	10
60	MUST experiment simulations using CFD and integral models. International Journal of Environment and Pollution, 2011, 44, 376.	0.2	6
61	COST 732 in practice: the MUST model evaluation exercise. International Journal of Environment and Pollution, 2011, 44, 403.	0.2	67
62	A fast model for pollutant dispersion at the neighbourhood scale. International Journal of Environment and Pollution, 2011, 47, 207.	0.2	3
63	An application of ventilation efficiency concepts to the analysis of building density effects on urban flow and pollutant concentration. International Journal of Environment and Pollution, 2011, 47, 248.	0.2	8
64	Analysis of local scale tree-atmosphere interaction on pollutant concentration in idealized street canyons and application to a real urban junction. Atmospheric Environment, 2011, 45, 1702-1713.	1.9	189
65	Numerical simulation of atmospheric pollutant dispersion in an urban street canyon: Comparison between RANS and LES. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 103-113.	1.7	221
66	City breathability and its link to pollutant concentration distribution within urban-like geometries. Atmospheric Environment, 2010, 44, 1894-1903.	1.9	228
67	Aerodynamic effects of trees on pollutant concentration in street canyons. Science of the Total Environment, 2009, 407, 5247-5256.	3.9	233
68	Flow and Pollutant Dispersion in Street Canyons using FLUENT and ADMS-Urban. Environmental Modeling and Assessment, 2008, 13, 369-381.	1.2	88
69	Dispersion study in a street canyon with tree planting by means of wind tunnel and numerical investigations - Evaluation of CFD data with experimental data. Atmospheric Environment, 2008, 42, 8640-8650.	1.9	349
70	Chapter 1.1 Application and validation of FLUENT flow and dispersion modelling within complex geometries. Developments in Environmental Science, 2007, , 3-11.	0.5	7
71	Simulations of pollutant dispersion within idealised urban-type geometries with CFD and integral models. Atmospheric Environment, 2007, 41, 8316-8329.	1.9	191