

Guilherme Carrilho da Graca

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,300
citations

331538

21
h-index

345118

36
g-index

37
all docs

37
docs citations

37
times ranked

1145
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of PM2.5 in indoor urban environments: A review. <i>Sustainable Cities and Society</i> , 2018, 42, 259-275.	5.1	174
2	Validation of EnergyPlus thermal simulation of a double skin naturally and mechanically ventilated test cell. <i>Energy and Buildings</i> , 2014, 75, 511-522.	3.1	135
3	Ten questions about natural ventilation of non-domestic buildings. <i>Building and Environment</i> , 2016, 107, 263-273.	3.0	87
4	Simulation of wind-driven ventilative cooling systems for an apartment building in Beijing and Shanghai. <i>Energy and Buildings</i> , 2002, 34, 1-11.	3.1	86
5	Solar powered net zero energy houses for southern Europe: Feasibility study. <i>Solar Energy</i> , 2012, 86, 634-646.	2.9	80
6	Impact of outdoor PM2.5 on natural ventilation usability in California's nondomestic buildings. <i>Applied Energy</i> , 2017, 189, 711-724.	5.1	60
7	Measured and modeled performance of internal mass as a thermal energy battery for energy flexible residential buildings. <i>Applied Energy</i> , 2019, 239, 252-267.	5.1	43
8	Impact of aperture separation on wind-driven single-sided natural ventilation. <i>Building and Environment</i> , 2016, 108, 122-134.	3.0	41
9	Validation of a lumped RC model for thermal simulation of a double skin natural and mechanical ventilated test cell. <i>Energy and Buildings</i> , 2016, 121, 92-103.	3.1	39
10	Validation of numerical simulation tools for wind-driven natural ventilation design. <i>Building Simulation</i> , 2016, 9, 75-87.	3.0	39
11	Thermal and airflow simulation of a naturally ventilated shopping mall. <i>Energy and Buildings</i> , 2012, 50, 177-188.	3.1	37
12	Simulated and measured performance of displacement ventilation systems in large rooms. <i>Building and Environment</i> , 2017, 114, 470-482.	3.0	37
13	A validated three-node model for displacement ventilation. <i>Building and Environment</i> , 2015, 84, 50-59.	3.0	36
14	Simulation of the effect of fine particle pollution on the potential for natural ventilation of non-domestic buildings in European cities. <i>Building and Environment</i> , 2017, 115, 236-250.	3.0	36
15	Full-scale measurement and validated simulation of cooling load reduction due to nighttime natural ventilation of a large atrium. <i>Energy and Buildings</i> , 2020, 224, 110233.	3.1	35
16	Comparison of methodologies for generation of future weather data for building thermal energy simulation. <i>Energy and Buildings</i> , 2020, 206, 109556.	3.1	34
17	Comparison between geothermal district heating and deep energy refurbishment of residential building districts. <i>Sustainable Cities and Society</i> , 2018, 38, 309-324.	5.1	30
18	Experimental and numerical investigation of pumping ventilation on the leeward side of a cubic building. <i>Building and Environment</i> , 2020, 179, 106897.	3.0	26

#	ARTICLE	IF	CITATIONS
19	Design and testing of a control strategy for a large, naturally ventilated office building. Building Services Engineering Research and Technology, 2004, 25, 223-239.	0.9	24
20	Comparison of measured and simulated performance of natural displacement ventilation systems for classrooms. Energy and Buildings, 2016, 133, 185-196.	3.1	22
21	The effect of typical buoyant flow elements and heat load combinations on room air temperature profile with displacement ventilation. Building and Environment, 2016, 108, 207-219.	3.0	22
22	Effects of airborne fine particle pollution on the usability of natural ventilation in office buildings in three megacities in Asia. Renewable Energy, 2018, 117, 357-373.	4.3	21
23	Simplified modeling of displacement ventilation systems with chilled ceilings. Energy and Buildings, 2015, 108, 44-54.	3.1	20
24	A technical note on simplified modeling of turbulent mixing in wind-driven single sided ventilation. Building and Environment, 2018, 131, 12-15.	3.0	18
25	The shape of days to come: Effects of climate change on low energy buildings. Building and Environment, 2020, 181, 107125.	3.0	17
26	Effect of window geometry on wind driven single sided ventilation through one opening. Energy and Buildings, 2021, 245, 111060.	3.1	17
27	Use of simulation in the design of a large, naturally ventilated office building. Building Services Engineering Research and Technology, 2004, 25, 211-221.	0.9	16
28	A two-zone model for natural cross-ventilation. Building and Environment, 2015, 89, 72-85.	3.0	13
29	Development, Calibration and Validation of an Internal Air Temperature Model for a Naturally Ventilated Nearly Zero Energy Building: Comparison of Model Types and Calibration Methods. Energies, 2021, 14, 871.	1.6	13
30	Pumping ventilation of corner and single sided rooms with two openings. Building and Environment, 2021, 205, 108171.	3.0	12
31	Energy certification of existing office buildings: Analysis of two case studies and qualitative reflection. Sustainable Cities and Society, 2013, 9, 81-95.	5.1	11
32	A simulation study of decreased life expectancy from exposure to ambient particulate air pollution (PM2.5) in naturally ventilated workspaces. Journal of Building Engineering, 2020, 30, 101268.	1.6	9
33	Using building thermal mass energy storage to offset temporary BIPV output reductions due to passing clouds in an office building. Building and Environment, 2022, 207, 108504.	3.0	6
34	Building Energy Certification System: Application to a Building in Lisbon and Paths to a Future Enhanced Scheme. Energy Engineering: Journal of the Association of Energy Engineers, 2013, 110, 7-34.	0.3	2
35	Ventilative Cooling and Air Pollutants. PoliTO Springer Series, 2021, , 79-124.	0.3	1
36	Development of a low-pressure loss PM2.5 filter for building natural ventilation. Building and Environment, 2022, 212, 108798.	3.0	1

#	ARTICLE	IF	CITATIONS
37	Low-cost DIY thermal upgrades for overheating mitigation in slum houses in Latin America & Caribbean. Energy and Buildings, 2022, , 112319.	3.1	0