Guilherme Carrilho da Graca

List of Publications by Citations

36 papers	884 citations	18 h-index	29 g-index
37 ext. papers	1,072 ext. citations	6.4 avg, IF	5.2 L-index

#	Paper	IF	Citations
36	Impact of PM2.5 in indoor urban environments: A review. *Sustainable Cities and Society*, **2018**, 42, 259-275	10.1	107
35	Validation of EnergyPlus thermal simulation of a double skin naturally and mechanically ventilated test cell. *Energy and Buildings*, **2014**, 75, 511-522	7	95
34	Simulation of wind-driven ventilative cooling systems for an apartment building in Beijing and Shanghai. *Energy and Buildings*, **2002**, 34, 1-11	7	79
33	Solar powered net zero energy houses for southern Europe: Feasibility study. *Solar Energy*, **2012**, 86, 634-646	6.8	64
32	Ten questions about natural ventilation of non-domestic buildings. *Building and Environment*, **2016**, 107, 263-273	6.5	60
31	Impact of outdoor PM2.5 on natural ventilation usability in California□ nondomestic buildings. *Applied Energy*, **2017**, 189, 711-724	10.7	40
30	Validation of a lumped RC model for thermal simulation of a double skin natural and mechanical ventilated test cell. *Energy and Buildings*, **2016**, 121, 92-103	7	31
29	Simulated and measured performance of displacement ventilation systems in large rooms. *Building and Environment*, **2017**, 114, 470-482	6.5	28
28	Impact of aperture separation on wind-driven single-sided natural ventilation. *Building and Environment*, **2016**, 108, 122-134	6.5	28
27	A validated three-node model for displacement ventilation. *Building and Environment*, **2015**, 84, 50-59	6.5	27
26	Thermal and airflow simulation of a naturally ventilated shopping mall. *Energy and Buildings*, **2012**, 50, 177-188	7	27
25	Validation of numerical simulation tools for wind-driven natural ventilation design. *Building Simulation*, **2016**, 9, 75-87	3.9	25
24	Measured and modeled performance of internal mass as a thermal energy battery for energy flexible residential buildings. *Applied Energy*, **2019**, 239, 252-267	10.7	23
23	Simulation of the effect of fine particle pollution on the potential for natural ventilation of non-domestic buildings in European cities. *Building and Environment*, **2017**, 115, 236-250	6.5	21
22	Design and testing of a control strategy for a large, naturally ventilated office building. *Building Services Engineering Research and Technology*, **2004**, 25, 223-239	2.3	21
21	Comparison between geothermal district heating and deep energy refurbishment of residential building districts. *Sustainable Cities and Society*, **2018**, 38, 309-324	10.1	20
20	Comparison of methodologies for generation of future weather data for building thermal energy simulation. *Energy and Buildings*, **2020**, 206, 109556	7	20

19	Comparison of measured and simulated performance of natural displacement ventilation systems for classrooms. *Energy and Buildings*, **2016**, 133, 185-196	7	19
18	Full-scale measurement and validated simulation of cooling load reduction due to nighttime natural ventilation of a large atrium. *Energy and Buildings*, **2020**, 224, 110233	7	18
17	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	6.5	17
16	Simplified modeling of displacement ventilation systems with chilled ceilings. *Energy and Buildings*, **2015**, 108, 44-54	7	16
15	Use of simulation in the design of a large, naturally ventilated office building. *Building Services Engineering Research and Technology*, **2004**, 25, 211-221	2.3	15
14	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	8.1	13
13	Energy certification of existing office buildings: Analysis of two case studies and qualitative reflection. *Sustainable Cities and Society*, **2013**, 9, 81-95	10.1	10
12	A two-zone model for natural cross-ventilation. *Building and Environment*, **2015**, 89, 72-85	6.5	9
11	A technical note on simplified modeling of turbulent mixing in wind-driven single sided ventilation. *Building and Environment*, **2018**, 131, 12-15	6.5	9
10	The shape of days to come: Effects of climate change on low energy buildings. *Building and Environment*, **2020**, 181, 107125	6.5	9
9	Experimental and numerical investigation of pumping ventilation on the leeward side of a cubic building. *Building and Environment*, **2020**, 179, 106897	6.5	9
8	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	5.2	7
7	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	3.1	7
6	Effect of window geometry on wind driven single sided ventilation through one opening. *Energy and Buildings*, **2021**, 245, 111060	7	4
5	Pumping ventilation of corner and single sided rooms with two openings. *Building and Environment*, **2021**, 205, 108171	6.5	3
4	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	0.6	2
3	Ventilative Cooling and Air Pollutants. *PoliTO Springer Series*, **2021**, 79-124	0.4	1
2	Development of a low-pressure loss PM2.5 filter for building natural ventilation. *Building and Environment*, **2022**, 212, 108798	6.5	0

1	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	6.5	0