

# Manuel Carlos Gameiro da Silva

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,330  
citations

331538

21  
h-index

206029

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization for building retrofit strategies: A model and an application. Energy and Buildings, 2012, 44, 81-87.	3.1	367
2	Multi-objective optimization for building retrofit: A model using genetic algorithm and artificial neural network and an application. Energy and Buildings, 2014, 81, 444-456.	3.1	353
3	Towards sustainable, energy-efficient and healthy ventilation strategies in buildings: A review. Renewable and Sustainable Energy Reviews, 2016, 59, 1426-1447.	8.2	291
4	A multi-objective optimization model for building retrofit strategies using TRNSYS simulations, GenOpt and MATLAB. Building and Environment, 2012, 56, 370-378.	3.0	217
5	Assessment of indoor air quality and thermal comfort in Portuguese secondary classrooms: Methodology and results. Building and Environment, 2014, 81, 69-80.	3.0	141
6	Energy consumption in schools – A review paper. Renewable and Sustainable Energy Reviews, 2014, 40, 911-922.	8.2	125
7	Effects of air pollution on health: A mapping review of systematic reviews and meta-analyses. Environmental Research, 2021, 201, 111487.	3.7	104
8	Energy savings by aerodynamic sealing with a downward-blowing plane air curtain – A numerical approach. Energy and Buildings, 2006, 38, 1182-1193.	3.1	69
9	Influence of weather and indoor climate on clothing of occupants in naturally ventilated school buildings. Building and Environment, 2013, 59, 38-46.	3.0	57
10	Indoor air quality audit implementation in a hotel building in Portugal. Building and Environment, 2011, 46, 1617-1623.	3.0	38
11	Thermal behaviour simulation of the passenger compartment of vehicles. International Journal of Vehicle Design, 2000, 24, 372.	0.1	35
12	Performance study about biodiesel impact on buses engines using dynamometer tests and fleet consumption data. Energy Conversion and Management, 2012, 60, 2-9.	4.4	31
13	Comparative energy and exergy performance of heating options in buildings under different climatic conditions. Energy and Buildings, 2013, 61, 288-297.	3.1	31
14	An approach for energy performance and indoor climate assessment in a Portuguese school building. Sustainable Cities and Society, 2017, 30, 184-194.	5.1	31
15	Evaluation on effects of using low biodiesel blends in a EURO 5 passenger vehicle equipped with a common-rail diesel engine. Applied Energy, 2015, 146, 230-238.	5.1	29
16	Development and Application of Competencies for Graduate Programs in Energy and Sustainability. Journal of Professional Issues in Engineering Education and Practice, 2011, 137, 198-207.	0.9	28
17	Energy and exergy-based indicators for the energy performance assessment of a hotel building. Energy and Buildings, 2012, 52, 181-188.	3.1	26
18	Wind tunnel simulation of the flow around two-dimensional hills. Journal of Wind Engineering and Industrial Aerodynamics, 1991, 38, 109-122.	1.7	25

#	ARTICLE	IF	CITATIONS
19	Solar energy industry workers under climate change: A risk assessment of the level of heat stress experienced by a worker based on measured data. <i>Safety Science</i> , 2019, 118, 33-47.	2.6	25
20	Air exchange rates from atmospheric CO2 daily cycle. <i>Energy and Buildings</i> , 2015, 92, 188-194.	3.1	23
21	Exergetic analysis of a desiccant cooling system: searching for performance improvement opportunities. <i>International Journal of Energy Research</i> , 2014, 38, 714-727.	2.2	21
22	An integrated approach on energy consumption and indoor environmental quality performance in six Portuguese secondary schools. <i>Energy Research and Social Science</i> , 2017, 32, 23-43.	3.0	21
23	Comparative energy and exergy performance assessments of a microcogenerator unit in different electricity mix scenarios. <i>Energy Conversion and Management</i> , 2013, 73, 195-206.	4.4	20
24	Application of smart readiness indicator for Mediterranean buildings in retrofitting actions. <i>Energy and Buildings</i> , 2021, 249, 111173.	3.1	20
25	The role of internet of things (IoT) in the assessment and communication of indoor environmental quality (IEQ) in buildings: a review. <i>Smart and Sustainable Built Environment</i> , 2023, 12, 584-606.	2.2	19
26	On the use of infrared thermography in studies with air curtain devices. <i>Energy and Buildings</i> , 2006, 38, 1194-1199.	3.1	18
27	Low-Emissivity Window Films as an Energy Retrofit Option for a Historical Stone Building in Cold Climate. <i>Energies</i> , 2021, 14, 7584.	1.6	18
28	A systematic indoor air quality audit approach for public buildings. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 865-875.	1.3	17
29	An experimental analysis of the correction factors adopted on environmental noise measurements performed with window-mounted microphones. <i>Applied Acoustics</i> , 2015, 87, 212-218.	1.7	17
30	Simulation of Occupancy and CO <sub>2</sub> -based Demand-controlled Mechanical Ventilation Strategies in an Office Room Using EnergyPlus. <i>Energy Procedia</i> , 2017, 113, 51-57.	1.8	13
31	On-road performance comparison of two identical cars consuming petrodiesel and biodiesel. <i>Fuel Processing Technology</i> , 2012, 103, 125-133.	3.7	12
32	Assessing the influence of the sampling strategy on the uncertainty of environmental noise measurements through the bootstrap method. <i>Applied Acoustics</i> , 2015, 89, 159-165.	1.7	12
33	Methodology for calculating an atmospheric pressure-sensitive thermal comfort index PMVaps. <i>Energy and Buildings</i> , 2021, 240, 110887.	3.1	10
34	Improving energy use in schools: from IEQ towards energy-efficient planning “method and in-field application to two case studies. <i>Energy Efficiency</i> , 2019, 12, 1253-1277.	1.3	9
35	A procedure for identifying chemical and biological risks for books in historic libraries based on microclimate analysis. <i>Journal of Cultural Heritage</i> , 2019, 37, 155-165.	1.5	7
36	Cumulative and momentary skin exposures to solar radiation in central receiver solar systems. <i>Energy</i> , 2017, 137, 336-349.	4.5	5

#	ARTICLE	IF	CITATIONS
37	Uncertainty Analysis of the Mean Radiant Temperature Measurement based on Globe Temperature Probes. <i>Journal of Physics: Conference Series</i> , 2018, 1065, 072036.	0.3	5
38	Study on thermal comfort by using an atmospheric pressure dependent predicted mean vote index. <i>Building and Environment</i> , 2021, 206, 108370.	3.0	5
39	Occupational exposures to solar radiation in concentrated solar power systems: A general framework in central receiver systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 387-401.	8.2	4
40	Teaching and researching the indoor environment: From traditional experimental techniques towards web-enabled practices. <i>Sustainable Cities and Society</i> , 2016, 26, 543-554.	5.1	4
41	3D Printed Pressure Anemometers. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 172-181.	1.4	4
42	Towards Energy-Efficient Ventilation in Buildings: Development of the Smart Window Ventilation System. <i>Journal of Clean Energy Technologies</i> , 2016, 4, 457-461.	0.1	4
43	Indoor environment in vehicles. <i>International Journal of Vehicle Design</i> , 2006, 42, 35.	0.1	3
44	Data of temperature and relative humidity in a historic library in Portugal. <i>Data in Brief</i> , 2019, 24, 103788.	0.5	3
45	On the flow between a rotating and a porous fixed disk with suction. <i>Theoretical and Computational Fluid Dynamics</i> , 1993, 4, 119-127.	0.9	2
46	Development of a new thermal environment meter responding both to sensible and latent heat fluxes. <i>Measurement Science and Technology</i> , 2004, 15, 839-847.	1.4	2
47	Measurement of Infiltration Rates from the Daily Cycle of Ambient CO <sub>2</sub> . <i>International Journal of Ventilation</i> , 2016, 14, 409-420.	0.2	2
48	A distance-learning Course on Indoor Environmental Comfort in Buildings. <i>International Journal of Interactive Mobile Technologies</i> , 2017, 11, 118.	0.7	2
49	Ocular risks assessment in a central receiver solar power facility based on measured data of direct solar radiation. <i>Solar Energy</i> , 2018, 164, 77-88.	2.9	2
50	Improving Energy Efficiency and Cost Reduction in Airports: Contributions from a Wireless Network Web-Based Monitoring Solution. <i>Energy Procedia</i> , 2015, 78, 2178-2183.	1.8	1
51	Real time web publishing of environmental noise monitoring data. , 2015, , .		1
52	Indoor Air Quality and Thermal Comfort Assessment of Two Portuguese Secondary Schools: Main Results. , 0, , .		1