

# Manuel Carlos Gameiro da Silva

## List of Publications by Citations

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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.

52  
papers

1,701  
citations

19  
h-index

41  
g-index

53  
ext. papers

1,977  
ext. citations

5.6  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
52	Multi-objective optimization for building retrofit strategies: A model and an application. <i>Energy and Buildings</i> , <b>2012</b> , 44, 81-87	7	309
51	Multi-objective optimization for building retrofit: A model using genetic algorithm and artificial neural network and an application. <i>Energy and Buildings</i> , <b>2014</b> , 81, 444-456	7	264
50	Towards sustainable, energy-efficient and healthy ventilation strategies in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 1426-1447	16.2	202
49	A multi-objective optimization model for building retrofit strategies using TRNSYS simulations, GenOpt and MATLAB. <i>Building and Environment</i> , <b>2012</b> , 56, 370-378	6.5	171
48	Assessment of indoor air quality and thermal comfort in Portuguese secondary classrooms: Methodology and results. <i>Building and Environment</i> , <b>2014</b> , 81, 69-80	6.5	107
47	Energy consumption in schools – A review paper. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 40, 911-922	16.2	98
46	Energy savings by aerodynamic sealing with a downward-blowing plane air curtain – A numerical approach. <i>Energy and Buildings</i> , <b>2006</b> , 38, 1182-1193	7	53
45	Influence of weather and indoor climate on clothing of occupants in naturally ventilated school buildings. <i>Building and Environment</i> , <b>2013</b> , 59, 38-46	6.5	44
44	Performance study about biodiesel impact on buses engines using dynamometer tests and fleet consumption data. <i>Energy Conversion and Management</i> , <b>2012</b> , 60, 2-9	10.6	30
43	Indoor air quality audit implementation in a hotel building in Portugal. <i>Building and Environment</i> , <b>2011</b> , 46, 1617-1623	6.5	29
42	Thermal behaviour simulation of the passenger compartment of vehicles. <i>International Journal of Vehicle Design</i> , <b>2000</b> , 24, 372	2.4	28
41	Comparative energy and exergy performance of heating options in buildings under different climatic conditions. <i>Energy and Buildings</i> , <b>2013</b> , 61, 288-297	7	24
40	Energy and exergy-based indicators for the energy performance assessment of a hotel building. <i>Energy and Buildings</i> , <b>2012</b> , 52, 181-188	7	23
39	An approach for energy performance and indoor climate assessment in a Portuguese school building. <i>Sustainable Cities and Society</i> , <b>2017</b> , 30, 184-194	10.1	22
38	Evaluation on effects of using low biodiesel blends in a EURO 5 passenger vehicle equipped with a common-rail diesel engine. <i>Applied Energy</i> , <b>2015</b> , 146, 230-238	10.7	22
37	Exergetic analysis of a desiccant cooling system: searching for performance improvement opportunities. <i>International Journal of Energy Research</i> , <b>2014</b> , 38, 714-727	4.5	20
36	Development and Application of Competencies for Graduate Programs in Energy and Sustainability. <i>Journal of Professional Issues in Engineering Education and Practice</i> , <b>2011</b> , 137, 198-207	0.7	20

35	Wind tunnel simulation of the flow around two-dimensional hills. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>1991</b> , 38, 109-122	3.7	20
34	Comparative energy and exergy performance assessments of a microcogenerator unit in different electricity mix scenarios. <i>Energy Conversion and Management</i> , <b>2013</b> , 73, 195-206	10.6	19
33	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> , <b>2019</b> , 118, 33-47	5.8	18
32	Effects of air pollution on health: A mapping review of systematic reviews and meta-analyses. <i>Environmental Research</i> , <b>2021</b> , 201, 111487	7.9	18
31	Air exchange rates from atmospheric CO daily cycle. <i>Energy and Buildings</i> , <b>2015</b> , 92, 188-194	7	17
30	On the use of infrared thermography in studies with air curtain devices. <i>Energy and Buildings</i> , <b>2006</b> , 38, 1194-1199	7	16
29	An experimental analysis of the correction factors adopted on environmental noise measurements performed with window-mounted microphones. <i>Applied Acoustics</i> , <b>2015</b> , 87, 212-218	3.1	14
28	A systematic indoor air quality audit approach for public buildings. <i>Environmental Monitoring and Assessment</i> , <b>2013</b> , 185, 865-75	3.1	13
27	An integrated approach on energy consumption and indoor environmental quality performance in six Portuguese secondary schools. <i>Energy Research and Social Science</i> , <b>2017</b> , 32, 23-43	7.7	12
26	Assessing the influence of the sampling strategy on the uncertainty of environmental noise measurements through the bootstrap method. <i>Applied Acoustics</i> , <b>2015</b> , 89, 159-165	3.1	12
25	On-road performance comparison of two identical cars consuming petrodiesel and biodiesel. <i>Fuel Processing Technology</i> , <b>2012</b> , 103, 125-133	7.2	9
24	Application of smart readiness indicator for Mediterranean buildings in retrofitting actions. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111173	7	8
23	Simulation of Occupancy and CO <sub>2</sub> -based Demand-controlled Mechanical Ventilation Strategies in an Office Room Using EnergyPlus. <i>Energy Procedia</i> , <b>2017</b> , 113, 51-57	2.3	7
22	A procedure for identifying chemical and biological risks for books in historic libraries based on microclimate analysis. <i>Journal of Cultural Heritage</i> , <b>2019</b> , 37, 155-165	2.9	6
21	Improving energy use in schools: from IEQ towards energy-efficient planning method and in-field application to two case studies. <i>Energy Efficiency</i> , <b>2019</b> , 12, 1253-1277	3	6
20	Occupational exposures to solar radiation in concentrated solar power systems: A general framework in central receiver systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 65, 387-401	16.2	4
19	3D Printed Pressure Anemometers. <i>3D Printing and Additive Manufacturing</i> , <b>2017</b> , 4, 172-181	4	3
18	Data of temperature and relative humidity in a historic library in Portugal. <i>Data in Brief</i> , <b>2019</b> , 24, 103788.2	3	3

17	Teaching and researching the indoor environment: From traditional experimental techniques towards web-enabled practices. <i>Sustainable Cities and Society</i> , <b>2016</b> , 26, 543-554	10.1	3
16	Towards Energy-Efficient Ventilation in Buildings: Development of the Smart Window Ventilation System. <i>Journal of Clean Energy Technologies</i> , <b>2016</b> , 4, 457-461	0.2	3
15	Uncertainty Analysis of the Mean Radiant Temperature Measurement based on Globe Temperature Probes. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1065, 072036	0.3	3
14	Cumulative and momentary skin exposures to solar radiation in central receiver solar systems. <i>Energy</i> , <b>2017</b> , 137, 336-349	7.9	2
13	Ocular risks assessment in a central receiver solar power facility based on measured data of direct solar radiation. <i>Solar Energy</i> , <b>2018</b> , 164, 77-88	6.8	2
12	Indoor environment in vehicles. <i>International Journal of Vehicle Design</i> , <b>2006</b> , 42, 35	2.4	2
11	Development of a new thermal environment meter responding both to sensible and latent heat fluxes. <i>Measurement Science and Technology</i> , <b>2004</b> , 15, 839-847	2	2
10	Low-Emissivity Window Films as an Energy Retrofit Option for a Historical Stone Building in Cold Climate. <i>Energies</i> , <b>2021</b> , 14, 7584	3.1	2
9	Methodology for calculating an atmospheric pressure-sensitive thermal comfort index PMVaps. <i>Energy and Buildings</i> , <b>2021</b> , 240, 110887	7	2
8	Measurement of Infiltration Rates from the Daily Cycle of Ambient CO <sub>2</sub> . <i>International Journal of Ventilation</i> , <b>2016</b> , 14, 409-420	1.1	2
7	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> , <b>2022</b> , ahead-of-print,	3	2
6	A distance-learning Course on Indoor Environmental Comfort in Buildings. <i>International Journal of Interactive Mobile Technologies</i> , <b>2017</b> , 11, 118	1.1	1
5	Improving Energy Efficiency and Cost Reduction in Airports: Contributions from a Wireless Network Web-Based Monitoring Solution. <i>Energy Procedia</i> , <b>2015</b> , 78, 2178-2183	2.3	1
4	Real time web publishing of environmental noise monitoring data <b>2015</b> ,		1
3	Indoor Air Quality and Thermal Comfort Assessment of Two Portuguese Secondary Schools: Main Results		1
2	Study on thermal comfort by using an atmospheric pressure dependent predicted mean vote index. <i>Building and Environment</i> , <b>2021</b> , 206, 108370	6.5	1
1	On the flow between a rotating and a porous fixed disk with suction. <i>Theoretical and Computational Fluid Dynamics</i> , <b>1993</b> , 4, 119-127	2.3	