

Adlio R Gaspar

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.

76
papers

2,172
citations

24
h-index

45
g-index

77
ext. papers

2,561
ext. citations

6.5
avg, IF

5.35
L-index

#	Paper	IF	Citations
76	Review of passive PCM latent heat thermal energy storage systems towards buildings energy efficiency. <i>Energy and Buildings</i> , 2013 , 59, 82-103	7	610
75	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 845-860	16.2	119
74	Multi-dimensional optimization of the incorporation of PCM-drywalls in lightweight steel-framed residential buildings in different climates. <i>Energy and Buildings</i> , 2014 , 70, 411-421	7	98
73	Review and future trends of solar adsorption refrigeration systems. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 102-123	16.2	85
72	Numerical evaluation of a radiant panel system for heating a high-ceiling room. <i>Extreme Physiology and Medicine</i> , 2015 , 4, A156		78
71	Evaluation of electrochromic windows impact in the energy performance of buildings in Mediterranean climates. <i>Energy Policy</i> , 2014 , 67, 68-81	7.2	71
70	Review on performance aspects of nearly zero-energy districts. <i>Sustainable Cities and Society</i> , 2018 , 43, 406-420	10.1	56
69	Control criteria of electrochromic glasses for energy savings in mediterranean buildings refurbishment. <i>Solar Energy</i> , 2016 , 134, 236-250	6.8	46
68	Wind tunnel measurements and numerical simulations of water evaporation in forced convection airflow. <i>International Journal of Thermal Sciences</i> , 2014 , 86, 28-40	4.1	44
67	An evolutionary strategy enhanced with a local search technique for the space allocation problem in architecture, Part 1: Methodology. <i>CAD Computer Aided Design</i> , 2013 , 45, 887-897	2.9	41
66	Analysis of sensible heat exchanges from a thermal manikin. <i>European Journal of Applied Physiology</i> , 2004 , 92, 663-8	3.4	41
65	An approach to the multi-level space allocation problem in architecture using a hybrid evolutionary technique. <i>Automation in Construction</i> , 2013 , 35, 482-498	9.6	38
64	Physical modelling of globe and natural wet bulb temperatures to predict WBGT heat stress index in outdoor environments. <i>International Journal of Biometeorology</i> , 2009 , 53, 221-30	3.7	37
63	Measurements of clothing insulation with a thermal manikin operating under the thermal comfort regulation mode: comparative analysis of the calculation methods. <i>European Journal of Applied Physiology</i> , 2008 , 104, 679-88	3.4	35
62	An evolutionary strategy enhanced with a local search technique for the space allocation problem in architecture, Part 2: Validation and performance tests. <i>CAD Computer Aided Design</i> , 2013 , 45, 898-910	2.9	33
61	A thermal performance parametric study of window type, orientation, size and shadowing effect. <i>Sustainable Cities and Society</i> , 2016 , 26, 456-465	10.1	32
60	Experimental evaluation of the heat transfer through small PCM-based thermal energy storage units for building applications. <i>Energy and Buildings</i> , 2016 , 116, 18-34	7	32

59	Dynamic clothing insulation. Measurements with a thermal manikin operating under the thermal comfort regulation mode. <i>Applied Ergonomics</i> , 2011 , 42, 890-9	4.2	32
58	A review of empirical data of sustainability initiatives in university campus operations. <i>Journal of Cleaner Production</i> , 2020 , 250, 119558	10.3	31
57	Estimation of renewable energy and built environment-related variables using neural networks [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 959-988	16.2	28
56	Analysis of natural and forced convection heat losses from a thermal manikin: Comparative assessment of the static and dynamic postures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014 , 132, 66-76	3.7	28
55	Thermal transmittance effect on energy consumption of Mediterranean buildings with different thermal mass. <i>Applied Energy</i> , 2019 , 252, 113437	10.7	26
54	Experimental study of the heat transfer through a vertical stack of rectangular cavities filled with phase change materials. <i>Applied Energy</i> , 2015 , 142, 192-205	10.7	26
53	An integrated energy performance-driven generative design methodology to foster modular lightweight steel framed dwellings in hot climates. <i>Energy for Sustainable Development</i> , 2018 , 44, 21-36	5.4	25
52	Comparative energy and exergy performance of heating options in buildings under different climatic conditions. <i>Energy and Buildings</i> , 2013 , 61, 288-297	7	24
51	Automated approach for design generation and thermal assessment of alternative floor plans. <i>Energy and Buildings</i> , 2014 , 81, 170-181	7	23
50	Energy and exergy-based indicators for the energy performance assessment of a hotel building. <i>Energy and Buildings</i> , 2012 , 52, 181-188	7	23
49	An approach for energy performance and indoor climate assessment in a Portuguese school building. <i>Sustainable Cities and Society</i> , 2017 , 30, 184-194	10.1	22
48	Convective heat transfer from a nude body under calm conditions: assessment of the effects of walking with a thermal manikin. <i>International Journal of Biometeorology</i> , 2012 , 56, 319-32	3.7	22
47	How reliable are geometry-based building indices as thermal performance indicators?. <i>Energy Conversion and Management</i> , 2015 , 101, 561-578	10.6	21
46	Exergetic analysis of a desiccant cooling system: searching for performance improvement opportunities. <i>International Journal of Energy Research</i> , 2014 , 38, 714-727	4.5	20
45	Comparative energy and exergy performance assessments of a microgenerator unit in different electricity mix scenarios. <i>Energy Conversion and Management</i> , 2013 , 73, 195-206	10.6	19
44	Improving thermal performance of automatically generated floor plans using a geometric variable sequential optimization procedure. <i>Applied Energy</i> , 2014 , 132, 200-215	10.7	17
43	The impact of thermal transmittance variation on building design in the Mediterranean region. <i>Applied Energy</i> , 2019 , 239, 581-597	10.7	17
42	A mathematical model describing the two stages of low-pressure-vaporization of free water. <i>Journal of Food Engineering</i> , 2012 , 112, 274-281	6	16

41	Low-pressure-vaporization of free water [Characterization of the boiling regimes. <i>International Journal of Thermal Sciences</i> , 2014 , 77, 19-26	4.1	15
40	Refrigerants used in the Portuguese food industry: Current status. <i>International Journal of Refrigeration</i> , 2017 , 83, 60-74	3.8	15
39	A thermal energy storage system provided with an adsorption module [Dynamic modeling and viability study. <i>Energy Conversion and Management</i> , 2016 , 126, 548-560	10.6	13
38	Performance-based design of multi-story buildings for a sustainable urban environment: A case study. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109243	16.2	13
37	Subjective analysis of cold thermal environments. <i>Applied Ergonomics</i> , 2014 , 45, 534-43	4.2	13
36	Calculation of view factors for complex geometries using Stokes's theorem. <i>Journal of Building Performance Simulation</i> , 2014 , 7, 203-216	2.8	12
35	Occupational exposure to cold thermal environments: a field study in Portugal. <i>European Journal of Applied Physiology</i> , 2008 , 104, 207-14	3.4	12
34	Modeling and parametric analysis of an adsorber unit for thermal energy storage. <i>Energy</i> , 2016 , 102, 83-94	7.9	12
33	A review of the energy implications of passive building design and active measures under climate change in the Middle East. <i>Journal of Cleaner Production</i> , 2021 , 305, 127152	10.3	11
32	The potential impact of low thermal transmittance construction on the European design guidelines of residential buildings. <i>Energy and Buildings</i> , 2018 , 178, 379-390	7	10
31	Can movable PCM-filled TES units be used to improve the performance of PV panels? Overview and experimental case-study. <i>Energy and Buildings</i> , 2020 , 210, 109743	7	10
30	Evaluation of occupational cold environments: field measurements and subjective analysis. <i>Industrial Health</i> , 2014 , 52, 262-74	2.5	9
29	Assessment of the indoor environmental conditions of a baroque library in Portugal. <i>Energy Procedia</i> , 2017 , 133, 257-267	2.3	9
28	An Approach to Urban Quarter Design Using Building Generative Design and Thermal Performance Optimization. <i>Energy Procedia</i> , 2015 , 78, 2899-2904	2.3	8
27	Clustering of architectural floor plans: A comparison of shape representations. <i>Automation in Construction</i> , 2017 , 80, 48-65	9.6	7
26	Simulation of Occupancy and CO ₂ -based Demand-controlled Mechanical Ventilation Strategies in an Office Room Using EnergyPlus. <i>Energy Procedia</i> , 2017 , 113, 51-57	2.3	7
25	Globe Temperature and Its Measurement: Requirements and Limitations. <i>Annals of Work Exposures and Health</i> , 2019 , 63, 743-758	2.4	7
24	Experimental study of the low-pressure-vaporization of water in different porous media. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 561-571	4.9	7

23	The contribution of ventilation on the energy performance of small residential buildings in the Mediterranean region. <i>Energy</i> , 2020 , 191, 116577	7.9	7
22	An application of a multi-criteria decision support system to assess energy performance of school buildings. <i>Energy Procedia</i> , 2017 , 122, 667-672	2.3	6
21	Optimization of a thermal energy storage system provided with an adsorption module [A GenOpt application in a TRNSYS/MATLAB model. <i>Energy Conversion and Management</i> , 2018 , 162, 90-97	10.6	6
20	Assessment of thermal environments: Working conditions in the Portuguese ceramic industry in 1994 and 2012. <i>Work</i> , 2015 , 51, 457-70	1.6	6
19	On the measurement of globe temperatures: analysis of the influence of different parameters. <i>Extreme Physiology and Medicine</i> , 2015 , 4,		6
18	Assessment of thermal environments: working conditions in the portuguese glass industry. <i>Industrial Health</i> , 2018 , 56, 62-77	2.5	5
17	Physical and experimental calibration of a mathematical model of the low-pressure-vaporization of free water. <i>Journal of Food Engineering</i> , 2014 , 138, 23-34	6	4
16	Crawler excavator track repair: Track fastening noise characterization and personal protection 2014 , 531-536		4
15	Crowdsourced Clustering of Computer Generated Floor Plans. <i>Lecture Notes in Computer Science</i> , 2015 , 142-151	0.9	4
14	Energy performance factors in wastewater treatment plants: A review. <i>Journal of Cleaner Production</i> , 2021 , 322, 129107	10.3	4
13	Thermal conditions in freezing chambers and prediction of the thermophysiological responses of workers. <i>International Journal of Biometeorology</i> , 2015 , 59, 1623-32	3.7	3
12	Increasing the efficiency of high temperature furnaces through a topping cycle cogeneration case study. <i>Energy Efficiency</i> , 2015 , 8, 85-95	3	2
11	Lessons from unsuccessful energy and buildings sustainability actions in university campus operations. <i>Journal of Cleaner Production</i> , 2021 , 297, 126665	10.3	2
10	Indoor climate assessment: A case study at a business incubation centre. <i>Sustainable Cities and Society</i> , 2016 , 26, 466-475	10.1	2
9	Numerical recipes for successfully modeling the phase transitions in thermal energy storage adsorption systems. <i>Energy Storage</i> , 2019 , 1, e42	2.8	1
8	Development, calibration and validation of a mathematical model for the low-pressure-vaporization of the water in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 574-585	4.9	1
7	Development and validation of a computer program for simulation of the human body thermophysiological response 2012 ,		1
6	The importance of long-term hygrothermal assessment of museum spaces: method and application in a permanent exhibition in a historical building. <i>Conservar Património</i> , 2019 , 30, 91-105	0.4	1

5	Energy Audits and Energy Efficiency in Small Wastewater Treatment Plants: A Case Study 2020 , 766-777		1
4	Performance Analysis of a Solar DHW System with Adsorption Module Operating in Different World Locations. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5480	2.6	0
3	Daylighting simulation of a heritage building by comparing matrix methods and solar models. <i>Solar Energy</i> , 2021 , 224, 685-696	6.8	0
2	Barriers on Establishing Passive Strategies in Office Spaces: A Case Study in a Historic University Building. <i>Sustainability</i> , 2021 , 13, 4563	3.6	
1	Analysis of Specific Energy Consumption of Wastewater Treatment Plants in the North of Portugal 2021 , 361-369		