Carlos Rubio-Bellido

List of Publications by Citations

77 papers	806 citations	17 h-index	25 g-index
88 ext. papers	1,013 ext. citations	4.2 avg, IF	5.25 L-index

#	Paper	IF	Citations
77	Comparison of linear regression and artificial neural networks models to predict heating and cooling energy demand, energy consumption and CO 2 emissions. *Energy*, **2017**, 118, 24-36	7.9	81
76	Towards a multiple-indicator approach to energy poverty in the European Union: A review. *Energy and Buildings*, **2019**, 193, 36-48	7	69
75	Towards the quantification of energy demand and consumption through the adaptive comfort approach in mixed mode office buildings considering climate change. *Energy and Buildings*, **2019**, 187, 173-185	7	46
74	Development of a new adaptive comfort model for low income housing in the central-south of chile. *Energy and Buildings*, **2018**, 178, 94-106	7	43
73	Optimization of annual energy demand in office buildings under the influence of climate change in Chile. *Energy*, **2016**, 114, 569-585	7.9	40
72	Adaptive Comfort Control Implemented Model (ACCIM) for Energy Consumption Predictions in Dwellings under Current and Future Climate Conditions: A Case Study Located in Spain. *Energies*, **2019**, 12, 1498	3.1	28
71	Fuel Poverty Potential Risk Index in the context of climate change in Chile. *Energy Policy*, **2018**, 113, 157-170	4.7	28
70	Analysing natural ventilation to reduce the cooling energy consumption and the fuel poverty of social dwellings in coastal zones. *Applied Energy*, **2020**, 279, 115845	10.7	25
69	Application of adaptive comfort behaviors in Chilean social housing standards under the influence of climate change. *Building Simulation*, **2017**, 10, 933-947	3.9	23
68	Adaptation Strategies and Resilience to Climate Change of Historic Dwellings. *Sustainability*, **2015**, 7, 3695-3713	3.6	22
67	Energy saving potential in current and future world built environments based on the adaptive comfort approach. *Journal of Cleaner Production*, **2020**, 249, 119306	10.3	22
66	Artificial neural networks and linear regression prediction models for social housing allocation: Fuel Poverty Potential Risk Index. *Energy*, **2018**, 164, 627-641	7.9	22
65	A Comparative Analysis of the International Regulation of Thermal Properties in Building Envelope. *Sustainability*, **2019**, 11, 5574	3.6	21
64	Optimizing the evaluation of thermal transmittance with the thermometric method using multilayer perceptrons. *Energy and Buildings*, **2019**, 198, 395-411	7	19
63	Development policy in social housing allocation: Fuel poverty potential risk index. *Indoor and Built Environment*, **2017**, 26, 980-998	1.8	19
62	Optimization of energy saving with adaptive setpoint temperatures by calculating the prevailing mean outdoor air temperature. *Building and Environment*, **2020**, 170, 106612	6.5	19
61	Comparison of energy conservation measures considering adaptive thermal comfort and climate change in existing Mediterranean dwellings. *Energy*, **2020**, 190, 116448	7.9	17

60	Multivariable regression analysis to assess energy consumption and CO2 emissions in the early stages of offices design in Chile. *Energy and Buildings*, **2016**, 133, 738-753	7	15
59	Influence of adaptive energy saving techniques on office buildings located in cities of the Iberian Peninsula. *Sustainable Cities and Society*, **2020**, 53, 101944	10.1	15
58	Influence of future climate changes scenarios on the feasibility of the adaptive comfort model in Japan. *Sustainable Cities and Society*, **2020**, 61, 102303	10.1	14
57	El control adaptativo en instalaciones existentes y su potencial en el contexto del cambio climático. **2017**, 7, 06-17		14
56	A comparative study on energy demand through the adaptive thermal comfort approach considering climate change in office buildings of Spain. *Building Simulation*, **2020**, 13, 51-63	3.9	14
55	Influence of climate on the creation of multilayer perceptrons to analyse the risk of fuel poverty. *Energy and Buildings*, **2019**, 198, 38-60	7	13
54	Estimating Adaptive Setpoint Temperatures Using Weather Stations. *Energies*, **2019**, 12, 1197	3.1	13
53	Adaptive Comfort Models Applied to Existing Dwellings in Mediterranean Climate Considering Global Warming. *Sustainability*, **2018**, 10, 3507	3.6	13
52	Energy poverty risk mapping methodology considering the user's thermal adaptability: The case of Chile. *Energy for Sustainable Development*, **2020**, 58, 63-77	5.4	12
51	Analysis of Energy Consumption in Different European Cities: The Adaptive Comfort Control Implemented Model (ACCIM) Considering Representative Concentration Pathways (RCP) Scenarios. *Applied Sciences (Switzerland)*, **2020**, 10, 1513	2.6	10
50	Automation and optimization of in-situ assessment of wall thermal transmittance using a Random Forest algorithm. *Building and Environment*, **2020**, 168, 106479	6.5	10
49	Adaptive Thermal Comfort Potential in Mediterranean Office Buildings: A Case Study of Torre Sevilla. *Sustainability*, **2018**, 10, 3091	3.6	10
48	Towards the implementation of periodic thermal transmittance in Spanish building energy regulation. *Journal of Building Engineering*, **2020**, 31, 101402	5.2	7
47	Feasibility of adaptive thermal comfort for energy savings in cooling and heating: A study on Europe and the Mediterranean basin. *Urban Climate*, **2021**, 36, 100807	6.8	7
46	Influence of the Representative Concentration Pathways (RCP) scenarios on the bioclimatic design strategies of the built environment. *Sustainable Cities and Society*, **2021**, 72, 103042	10.1	7
45	Experimental characterisation of the periodic thermal properties of walls using artificial intelligence. *Energy*, **2020**, 203, 117871	7.9	6
44	Analysing the inequitable energy framework for the implementation of nearly zero energy buildings (nZEB) in Spain. *Journal of Building Engineering*, **2021**, 35, 102011	5.2	6
43	Adaptive setpoint temperatures to reduce the risk of energy poverty? A local case study in Seville. *Energy and Buildings*, **2021**, 231, 110571	7	6

42	Architectural and Management Strategies for The Design, Construction and Operation of Energy Efficient and Intelligent Primary Care Centers in Chile. *Sustainability*, **2019**, 11, 464	3.6	5
41	Influence of Adaptive Comfort Models on Energy Improvement for Housing in Cold Areas. *Sustainability*, **2018**, 10, 859	3.6	5
40	New configuration factor between a circle and a point-plane at random positions. *International Journal of Heat and Mass Transfer*, **2014**, 69, 147-150	4.9	5
39	Rammed Earth Construction: A Proposal for a Statistical Quality Control in the Execution Process. *Sustainability*, **2020**, 12, 2830	3.6	5
38	Towards a Life Cycle Sustainability Assessment method for the quantification and reduction of impacts of buildings life cycle. *IOP Conference Series: Earth and Environmental Science*, **2019**, 323, 012107	0.3	4
37	A Simplified Simulation Model for Predicting Radiative Transfer in Long Street Canyons under High Solar Radiation Conditions. *Energies*, **2015**, 8, 13540-13558	3.1	4
36	Analysis of climate change impact on the preservation of heritage elements in historic buildings with a deficient indoor microclimate in warm regions. *Building and Environment*, **2021**, 200, 107959	6.5	4
35	Potential of applying adaptive strategies in buildings to reduce the severity of fuel poverty according to the climate zone and climate change: The case of Andalusia. *Sustainable Cities and Society*, **2021**, 73, 103088	10.1	4
34	Evaluating the potential of adaptive comfort approach using historic data to reduce energy consumption in buildings in southern Spain. *Building and Environment*, **2020**, 185, 107313	6.5	3
33	Understanding climatic traditions: A quantitative and qualitative analysis of historic dwellings of Cadiz. *Indoor and Built Environment*, **2018**, 27, 665-681	1.8	3
32	Influence of the RCP scenarios on the effectiveness of adaptive strategies in buildings around the world. *Building and Environment*, **2021**, 208, 108631	6.5	3
31	The future of fortifications in the city of Cadiz: opportunities and strategies for an urban regeneration **2012**,		3
30	Influence of the Improvement in Thermal Expectation Levels with Adaptive Setpoint Temperatures on Energy Consumption. *Applied Sciences (Switzerland)*, **2020**, 10, 5282	2.6	3
29	Internal surface condensation risk in fa□des of Spanish social dwellings. *Building Research and Information*, **2019**, 47, 928-947	4.3	2
28	Long-term environmental monitoring for preventive conservation of external historical plasterworks. *Journal of Building Engineering*, **2022**, 47, 103896	5.2	2
27	Spanish fortifications in Asia: a case study of Intramuros district in Manila □current situation and future prospects **2014**,		2
26	Measuring Climate Change Impact on Urban Microclimate: A Case Study of Concepci□. *Procedia Engineering*, **2016**, 161, 2290-2296		2
25	Computational approach to extend the air-conditioning usage to adaptive comfort: Adaptive-Comfort-Control-Implementation Script. *Automation in Construction*, **2021**, 131, 103900	9.6	2

24	Applying the mixed-mode with an adaptive approach to reduce the energy poverty in social dwellings: The case of Spain. *Energy*, **2021**, 237, 121636	7.9	2
23	Effect on the Thermal Properties of Mortar Blocks by Using Recycled Glass and Its Application for Social Dwellings. *Energies*, **2020**, 13, 5702	3.1	1
22	Present and Future Energy Poverty, a Holistic Approach: A Case Study in Seville, Spain. *Sustainability*, **2021**, 13, 7866	3.6	1
21	Comparing Mechanical Behavior of API H-Class Cement Reinforced with Carbon, Mineral or Polypropylene Fiber Additions. *Arabian Journal for Science and Engineering*, **2019**, 44, 6119-6125	2.5	1
20	Optimization of the Characterization of the Thermal Properties of the Building Envelope. *SpringerBriefs in Applied Sciences and Technology*, **2021**,	0.4	1
19	Influence of Adaptive Comfort Models in Execution Cost Improvements for Housing Thermal Environment in Concepci□n, Chile. *Sustainability*, **2018**, 10, 2368	3.6	1
18	Prediction of Fuel Poverty Potential Risk Index Using Six Regression Algorithms: A Case-Study of Chilean Social Dwellings. *Sustainability*, **2021**, 13, 2426	3.6	0
17	Assessment of energy poverty in Andalusian municipalities. Application of a combined indicator to detect priorities. *Energy Reports*, **2022**, 8, 5100-5116	4.6	0
16	Influence of the type of solar protection on thermal and light performance in classrooms. *Energy Reports*, **2022**, 8, 5329-5340	4.6	0
15	Using adaptive strategies of natural ventilation with tolerances applied to the upper limit to improve social dwellings□thermal comfort in current and future scenarios. *Science and Technology for the Built Environment*,1-18	1.8	
14	Collecting and Reviewing Written Resources that Map the Knowledge Triangle for Transferring Research and Innovation on Sustainable Rehabilitation of the Built Environment in Continuing Education. *Springer Series in Geomechanics and Geoengineering*, **2021**, 377-392	0.1	
13	The Effect of Thermal Bridge Junctions Between Pillars and Walls in the Energy Demand of Buildings in Warm Climate. *Springer Series in Geomechanics and Geoengineering*, **2021**, 437-448	0.1	
12	Energy Saving Achieved with Adaptive Setpoint Temperatures Based on EN16798-1: Application of the Category III. *Springer Series in Geomechanics and Geoengineering*, **2021**, 458-466	0.1	
11	The Influence of the Envelope Thermal Properties on Building Energy Performance. *SpringerBriefs in Applied Sciences and Technology*, **2021**, 1-12	0.4	
10	Methods to Assess the Thermal Properties of the Building Envelope. *SpringerBriefs in Applied Sciences and Technology*, **2021**, 13-30	0.4	
9	Methodological Framework of Artificial Intelligence Algorithms and Generation of the Dataset. *SpringerBriefs in Applied Sciences and Technology*, **2021**, 31-45	0.4	
8	Study on Envelope in Office Buildings Under the Influence of Climate Change in Santiago, Chile **2017**, 393-401		
7	Management of the Building Process in Temporary Constructions: Case Study of the Unicaja Exhibition Pavilion **2014**, 35-42		

6	Building Energy Efficiency and Sustainability. *SpringerBriefs in Architectural Design and Technology*, **2021**, 1-11	0.1
5	Decision-Making in Applying Adaptive Approaches in Indoor Spaces. *SpringerBriefs in Architectural Design and Technology*, **2021**, 69-75	0.1
4	Application of Adaptive Thermal Comfort Models for Energy Saving in Buildings. *SpringerBriefs in Architectural Design and Technology*, **2021**, 35-50	0.1
3	Linguistic descriptions of thermal comfort data for buildings: Definition, implementation and evaluation. *Building Simulation*, **2018**, 11, 1095-1108	3.9
2	Adaptive Thermal Comfort Models for Buildings. *SpringerBriefs in Architectural Design and Technology*, **2021**, 13-33	0.1
1	Energy Savings Obtained with an Adaptive Approach with Respect to Building Envelope Improvement. *SpringerBriefs in Architectural Design and Technology*, **2021**, 51-67	0.1