

Marcel Macarulla

List of Publications by Year in descending order

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41
papers

1,328
citations

288859

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35
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43
all docs

43
docs citations

43
times ranked

1503
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing the implementation of predictive control systems and application of stored data in non-residential buildings. <i>Energy Efficiency</i> , 2024, 17, .	2.8	0
2	Optimizing indoor air models through k-means clustering of nanoparticle size distribution data. <i>Building and Environment</i> , 2024, 266, 112091.	7.0	0
3	Educational environmentsâ€™ energy demand optimization based on indoor CO2 concentration and temperature: Together better than separately. <i>Building and Environment</i> , 2024, 266, 112121.	7.0	0
4	Assessing the impact of the COVID-19 lockdown on the energy consumption of university buildings. <i>Energy and Buildings</i> , 2022, 257, 111783.	6.8	26
5	CO2 Concentrations and Thermal Comfort Analysis at Onsite and Online Educational Environments. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 16039.	2.7	7
6	Exploring the Potential of a Gamified Approach to Reduce Energy Use and Carbon Emissions in the Household Sector. <i>Sustainability</i> , 2021, 13, 3380.	3.3	9
7	High-Capacity Cells and Batteries for Electric Vehicles. <i>Energies</i> , 2021, 14, 7799.	3.2	4
8	Office representatives for cost-optimal energy retrofitting analysis: A novel approach using cluster analysis of energy performance certificate databases. <i>Energy and Buildings</i> , 2020, 206, 109557.	6.8	24
9	Assessing the effectiveness of gamification in reducing domestic energy consumption: Lessons learned from the EnerGAware project. <i>Energy and Buildings</i> , 2020, 210, 109753.	6.8	46
10	Human comfort modelling for elderly people by infrared thermography: Evaluating the thermoregulation system responses in an indoor environment during winter. <i>Building and Environment</i> , 2020, 186, 107354.	7.0	45
11	Summer thermal comfort in nursing homes in the Mediterranean climate. <i>Energy and Buildings</i> , 2020, 229, 110442.	6.8	34
12	Life-cycle environmental and cost-effective energy retrofitting solutions for office stock. <i>Sustainable Cities and Society</i> , 2020, 61, 102319.	10.6	24
13	Life Cycle Analysis of a Game-Based Solution for Domestic Energy Saving. <i>Sustainability</i> , 2020, 12, 6699.	3.3	6
14	U-value time series analyses: Evaluating the feasibility of in-situ short-lasting IRT tests for heavy multi-leaf walls. <i>Building and Environment</i> , 2019, 159, 106123.	7.0	24
15	Energy Benchmarking of Existing Office Stock in Spain: Trends and Drivers. <i>Sustainability</i> , 2019, 11, 6356.	3.3	6
16	Reduced-order modeling for energy performance contracting. <i>Energy and Buildings</i> , 2018, 167, 216-230.	6.8	23
17	Estimation of a room ventilation air change rate using a stochastic grey-box modelling approach. Measurement: <i>Journal of the International Measurement Confederation</i> , 2018, 124, 539-548.	5.1	20
18	Modelling indoor air carbon dioxide concentration using grey-box models. <i>Building and Environment</i> , 2017, 117, 146-153.	7.0	18

#	ARTICLE	IF	CITATIONS
19	Factors Affecting Rework Costs in Construction. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	4.0	64
20	A serious game enhancing social tenants' behavioral change towards energy efficiency. , 2017, , .		17
21	Implementation of predictive control in a commercial building energy management system using neural networks. Energy and Buildings, 2017, 151, 511-519.	6.8	53
22	Lessons Learned in Building a Middleware for Smart Grids. Journal of Green Engineering (discontinued), 2016, 6, 1-26.	0.7	4
23	ENCOURAGEing results on ICT for energy efficient buildings. , 2016, , .		1
24	Reducing lighting electricity use in underground metro stations. Energy Conversion and Management, 2016, 119, 130-141.	9.3	15
25	Energy performance assessment of an intelligent energy management system. Renewable and Sustainable Energy Reviews, 2016, 55, 662-667.	16.7	26
26	SEAM4US: An intelligent energy management system for underground stations. Applied Energy, 2016, 166, 150-164.	10.3	31
27	Handover defects: comparison of construction and post-handover housing defects. Building Research and Information, 2016, 44, 279-288.	3.9	56
28	Energy mapping of existing building stock in Spain. Journal of Cleaner Production, 2016, 112, 3895-3904.	9.5	98
29	Environmental impacts related to the commissioning and usage phase of an intelligent energy management system. Applied Energy, 2015, 138, 216-223.	10.3	16
30	A breakdown of energy consumption in an underground station. Energy and Buildings, 2014, 78, 89-97.	6.8	64
31	Predicting on-site environmental impacts of municipal engineering works. Environmental Impact Assessment Review, 2014, 44, 43-57.	9.3	13
32	Analysis of the implementation of effective waste management practices in construction projects and sites. Resources, Conservation and Recycling, 2014, 93, 99-111.	11.0	99
33	REWORK IN HIGHWAY PROJECTS. Journal of Civil Engineering and Management, 2014, 20, 445-465.	3.5	31
34	Assessment of construction defects in residential buildings in Spain. Building Research and Information, 2014, 42, 629-640.	3.9	60
35	An Environmental Impact Causal Model for improving the environmental performance of construction processes. Journal of Cleaner Production, 2013, 52, 425-437.	9.5	65
36	Knowledge management perceptions in construction and design companies. Automation in Construction, 2013, 29, 83-91.	10.0	76

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37	Standardizing Housing Defects: Classification, Validation, and Benefits. Journal of Construction Engineering and Management - ASCE, 2013, 139, 968-976.	4.0	69
38	Assessment of Residential Defects at Post-Handover. Journal of Construction Engineering and Management - ASCE, 2013, 139, 372-378.	4.0	59
39	Posthandover Housing Defects: Sources and Origins. Journal of Performance of Constructed Facilities, 2013, 27, 756-762.	2.2	56
40	Influence of Building Type on Post-Handover Defects in Housing. Journal of Performance of Constructed Facilities, 2012, 26, 433-440.	2.2	39
41	Project of the academic performance improvement. , 0 , , .		0