

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	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
2	Energy mapping of existing building stock in Spain. Journal of Cleaner Production, 2016, 112, 3895-3904.	9.5	98
3	Knowledge management perceptions in construction and design companies. Automation in Construction, 2013, 29, 83-91.	10.0	76
4	Standardizing Housing Defects: Classification, Validation, and Benefits. Journal of Construction Engineering and Management - ASCE, 2013, 139, 968-976.	4.0	69
5	An Environmental Impact Causal Model for improving the environmental performance of construction processes. Journal of Cleaner Production, 2013, 52, 425-437.	9.5	65
6	A breakdown of energy consumption in an underground station. Energy and Buildings, 2014, 78, 89-97.	6.8	64
7	Factors Affecting Rework Costs in Construction. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	4.0	64
8	Assessment of construction defects in residential buildings in Spain. Building Research and Information, 2014, 42, 629-640.	3.9	60
9	Assessment of Residential Defects at Post-Handover. Journal of Construction Engineering and Management - ASCE, 2013, 139, 372-378.	4.0	59
10	Posthandover Housing Defects: Sources and Origins. Journal of Performance of Constructed Facilities, 2013, 27, 756-762.	2.2	56
11	Handover defects: comparison of construction and post-handover housing defects. Building Research and Information, 2016, 44, 279-288.	3.9	56
12	Implementation of predictive control in a commercial building energy management system using neural networks. Energy and Buildings, 2017, 151, 511-519.	6.8	53
13	Assessing the effectiveness of gamification in reducing domestic energy consumption: Lessons learned from the EnerGAware project. Energy and Buildings, 2020, 210, 109753.	6.8	46
14	Human comfort modelling for elderly people by infrared thermography: Evaluating the thermoregulation system responses in an indoor environment during winter. Building and Environment, 2020, 186, 107354.	7.0	45
15	Influence of Building Type on Post-Handover Defects in Housing. Journal of Performance of Constructed Facilities, 2012, 26, 433-440.	2.2	39
16	Summer thermal comfort in nursing homes in the Mediterranean climate. Energy and Buildings, 2020, 229, 110442.	6.8	34
17	REWORK IN HIGHWAY PROJECTS. Journal of Civil Engineering and Management, 2014, 20, 445-465.	3.5	31
18	SEAM4US: An intelligent energy management system for underground stations. Applied Energy, 2016, 166, 150-164.	10.3	31

#	ARTICLE	IF	CITATIONS
19	Energy performance assessment of an intelligent energy management system. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 662-667.	16.7	26
20	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
21	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
22	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
23	Life-cycle environmental and cost-effective energy retrofitting solutions for office stock. <i>Sustainable Cities and Society</i> , 2020, 61, 102319.	10.6	24
24	Reduced-order modeling for energy performance contracting. <i>Energy and Buildings</i> , 2018, 167, 216-230.	6.8	23
25	Estimation of a room ventilation air change rate using a stochastic grey-box modelling approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 124, 539-548.	5.1	20
26	Modelling indoor air carbon dioxide concentration using grey-box models. <i>Building and Environment</i> , 2017, 117, 146-153.	7.0	18
27	A serious game enhancing social tenants' behavioral change towards energy efficiency. , 2017, , .		17
28	Environmental impacts related to the commissioning and usage phase of an intelligent energy management system. <i>Applied Energy</i> , 2015, 138, 216-223.	10.3	16
29	Reducing lighting electricity use in underground metro stations. <i>Energy Conversion and Management</i> , 2016, 119, 130-141.	9.3	15
30	Predicting on-site environmental impacts of municipal engineering works. <i>Environmental Impact Assessment Review</i> , 2014, 44, 43-57.	9.3	13
31	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
32	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
33	Energy Benchmarking of Existing Office Stock in Spain: Trends and Drivers. <i>Sustainability</i> , 2019, 11, 6356.	3.3	6
34	Life Cycle Analysis of a Game-Based Solution for Domestic Energy Saving. <i>Sustainability</i> , 2020, 12, 6699.	3.3	6
35	Lessons Learned in Building a Middleware for Smart Grids. <i>Journal of Green Engineering (discontinued)</i> , 2016, 6, 1-26.	0.7	4
36	High-Capacity Cells and Batteries for Electric Vehicles. <i>Energies</i> , 2021, 14, 7799.	3.2	4

#	ARTICLE	IF	CITATIONS
37	ENCOURAGEing results on ICT for energy efficient buildings. , 2016, , .		1
38	Project of the academic performance improvement. , 0, , .		0
39	Analyzing the implementation of predictive control systems and application of stored data in non-residential buildings. Energy Efficiency, 2024, 17, .	2.8	0
40	Optimizing indoor air models through k-means clustering of nanoparticle size distribution data. Building and Environment, 2024, 266, 112091.	7.0	0
41	Educational environmentsâ€™ energy demand optimization based on indoor CO2 concentration and temperature: Together better than separately. Building and Environment, 2024, 266, 112121.	7.0	0