

Miquel Casals

List of Publications by Year in descending order

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72
papers

2,055
citations

201674

27
h-index

254184

43
g-index

73
all docs

73
docs citations

73
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigating construction safety risks using prevention through design. Journal of Safety Research, 2010, 41, 107-122.	3.6	121
2	A methodology for predicting the severity of environmental impacts related to the construction process of residential buildings. Building and Environment, 2009, 44, 558-571.	6.9	120
3	Energy mapping of existing building stock in Spain. Journal of Cleaner Production, 2016, 112, 3895-3904.	9.3	92
4	Analysis of the implementation of effective waste management practices in construction projects and sites. Resources, Conservation and Recycling, 2014, 93, 99-111.	10.8	90
5	Quantitative internal infrared thermography for determining in-situ thermal behaviour of façades. Energy and Buildings, 2017, 151, 187-197.	6.7	87
6	A comparison of standardized calculation methods for in situ measurements of façades U-value. Energy and Buildings, 2016, 130, 592-599.	6.7	79
7	Knowledge management perceptions in construction and design companies. Automation in Construction, 2013, 29, 83-91.	9.8	73
8	Standardizing Housing Defects: Classification, Validation, and Benefits. Journal of Construction Engineering and Management - ASCE, 2013, 139, 968-976.	3.8	69
9	An Environmental Impact Causal Model for improving the environmental performance of construction processes. Journal of Cleaner Production, 2013, 52, 425-437.	9.3	64
10	A breakdown of energy consumption in an underground station. Energy and Buildings, 2014, 78, 89-97.	6.7	60
11	Factors Affecting Rework Costs in Construction. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	60
12	Assessment of construction defects in residential buildings in Spain. Building Research and Information, 2014, 42, 629-640.	3.9	55
13	Posthandover Housing Defects: Sources and Origins. Journal of Performance of Constructed Facilities, 2013, 27, 756-762.	2.0	53
14	Handover defects: comparison of construction and post-handover housing defects. Building Research and Information, 2016, 44, 279-288.	3.9	52
15	Assessing concerns of interested parties when predicting the significance of environmental impacts related to the construction process of residential buildings. Building and Environment, 2011, 46, 1023-1037.	6.9	49
16	Implementation of predictive control in a commercial building energy management system using neural networks. Energy and Buildings, 2017, 151, 511-519.	6.7	49
17	In situ measurement of façades with a low U-value: Avoiding deviations. Energy and Buildings, 2018, 170, 61-73.	6.7	44
18	Assessing the influence of operating conditions and thermophysical properties on the accuracy of in-situ measured U-values using quantitative internal infrared thermography. Energy and Buildings, 2018, 171, 64-75.	6.7	42

#	ARTICLE	IF	CITATIONS
19	Assessing the effectiveness of gamification in reducing domestic energy consumption: Lessons learned from the EnerGAware project. <i>Energy and Buildings</i> , 2020, 210, 109753.	6.7	41
20	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.	6.9	39
21	Influence of Building Type on Post-Handover Defects in Housing. <i>Journal of Performance of Constructed Facilities</i> , 2012, 26, 433-440.	2.0	36
22	Predicting fuel energy consumption during earthworks. <i>Journal of Cleaner Production</i> , 2016, 112, 3798-3809.	9.3	36
23	Adoption of web databases for document management in SMEs of the construction sector in Spain. <i>Automation in Construction</i> , 2007, 16, 411-424.	9.8	35
24	Model for Enhancing Integrated Identification, Assessment, and Operational Control of On-Site Environmental Impacts and Health and Safety Risks in Construction Firms. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 138-147.	3.8	33
25	Model predictive energy control of ventilation for underground stations. <i>Energy and Buildings</i> , 2016, 116, 326-340.	6.7	31
26	Summer thermal comfort in nursing homes in the Mediterranean climate. <i>Energy and Buildings</i> , 2020, 229, 110442.	6.7	29
27	SEAM4US: An intelligent energy management system for underground stations. <i>Applied Energy</i> , 2016, 166, 150-164.	10.1	28
28	Thermographic 2D U-value map for quantifying thermal bridges in building façades. <i>Energy and Buildings</i> , 2020, 224, 110176.	6.7	27
29	Review of criteria for determining HFM minimum test duration. <i>Energy and Buildings</i> , 2018, 176, 360-370.	6.7	25
30	Resilience to increasing temperatures: residential building stock adaptation through codes and standards. <i>Building Research and Information</i> , 2012, 40, 645-664.	3.9	24
31	Empirical approach for real-time estimation of air flow rates in a subway station. <i>Tunnelling and Underground Space Technology</i> , 2014, 42, 25-39.	6.2	24
32	Energy performance assessment of an intelligent energy management system. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 662-667.	16.4	24
33	Genome-Wide Mutagenesis of Dengue Virus Reveals Plasticity of the NS1 Protein and Enables Generation of Infectious Tagged Reporter Viruses. <i>Journal of Virology</i> , 2017, 91, .	3.4	24
34	Reduced-order modeling for energy performance contracting. <i>Energy and Buildings</i> , 2018, 167, 216-230.	6.7	22
35	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.	6.7	22
36	Life-cycle environmental and cost-effective energy retrofitting solutions for office stock. <i>Sustainable Cities and Society</i> , 2020, 61, 102319.	10.4	21

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37	Field study on adaptive thermal comfort models for nursing homes in the Mediterranean climate. <i>Energy and Buildings</i> , 2021, 252, 111475.	6.7	20
38	A web-based system for sharing and disseminating research results: The underground construction case study. <i>Automation in Construction</i> , 2010, 19, 458-474.	9.8	19
39	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.	5.0	19
40	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.	6.9	19
41	Field study on thermal comfort in nursing homes in heated environments. <i>Energy and Buildings</i> , 2021, 244, 111032.	6.7	19
42	Classifying System for Façades and Anomalies. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	2.0	18
43	Modelling indoor air carbon dioxide concentration using grey-box models. <i>Building and Environment</i> , 2017, 117, 146-153.	6.9	17
44	Automated data-processing technique: 2D Map for identifying the distribution of the U-value in building elements by quantitative internal thermography. <i>Automation in Construction</i> , 2021, 122, 103478.	9.8	16
45	Environmental impacts related to the commissioning and usage phase of an intelligent energy management system. <i>Applied Energy</i> , 2015, 138, 216-223.	10.1	15
46	Reducing lighting electricity use in underground metro stations. <i>Energy Conversion and Management</i> , 2016, 119, 130-141.	9.2	15
47	A serious game enhancing social tenants' behavioral change towards energy efficiency. , 2017, , .		15
48	Predicting on-site environmental impacts of municipal engineering works. <i>Environmental Impact Assessment Review</i> , 2014, 44, 43-57.	9.2	13
49	Analysis of the Applicability of Non-Destructive Techniques to Determine In Situ Thermal Transmittance in Passive House Façades. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8337.	2.5	11
50	Influence of HFM Thermal Contact on the Accuracy of In Situ Measurements of Façades™ U-Value in Operational Stage. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 979.	2.5	10
51	Exploring the Potential of a Gamified Approach to Reduce Energy Use and Carbon Emissions in the Household Sector. <i>Sustainability</i> , 2021, 13, 3380.	3.2	6
52	Results and insight gained from applying the EnergyCat energy-saving serious game in UK social housing. <i>International Journal of Serious Games</i> , 2020, 7, 27-48.	1.1	6
53	Un enfoque basado en ontología para la gestión integrada del medio ambiente y de la seguridad y la salud en obra. <i>Revista Ingenieria De Construccion</i> , 2012, 27, 103-127.	0.4	5
54	Life Cycle Analysis of a Game-Based Solution for Domestic Energy Saving. <i>Sustainability</i> , 2020, 12, 6699.	3.2	5

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55	Higher education: the coping stone of nursing education?. Journal of Advanced Nursing, 1987, 12, 659-669.	3.3	4
56	Development and calibration of a model for the dynamic simulation of fans with induction motors. Applied Thermal Engineering, 2017, 111, 647-659.	6.0	4
57	Energy Benchmarking of Existing Office Stock in Spain: Trends and Drivers. Sustainability, 2019, 11, 6356.	3.2	4
58	Development of an Ontology for the Document Management Systems for Construction. , 2007, , 529-536.		4
59	Experiences of success in industrial plants projects. Revista Ingenieria De Construccion, 2008, 23, .	0.4	2
60	Tracking construction defects based on images. , 2012, , 723-729.		2
61	Energy savings in underground metro stations through the implementation of an environmental aware control system. , 2014, , 431-436.		2
62	Reducing energy consumption in public buildings through user awareness. , 2014, , 637-642.		2
63	Project & construction management. , 2014, , 575-616.		1
64	ENCOURAGEing results on ICT for energy efficient buildings. , 2016, , .		1
65	Exploring the possibility of promoting energy conservation behaviors in public buildings within the ENCOURAGE project. , 2012, , 171-178.		1
66	INTEGRATION OF KNOWLEDGE MANAGEMENT AND E-LEARNING MANAGEMENT FOR CONSTRUCTION COMPANIES. , 2007, , .		0
67	A strategic knowledge transfer from research projects in the field of tunneling. , 2008, , 525-530.		0
68	KNOWLEDGE MANAGEMENT AND E-LEARNING FROM RESEARCH PROJECTS IN THE FIELD OF UNDERGROUND CONSTRUCTION. , 2010, , .		0
69	Knowledge Management and e-Learning for Underground Construction Projects. Advanced Concurrent Engineering, 2010, , 257-265.	0.2	0
70	Collaboration and process modelling. , 2010, , 143-192.		0
71	A computerized model for managing environmental impacts in residential construction projects. , 2012, , 201-209.		0
72	An ontology for the Environmental and Safety integration in the construction sector. , 2007, , 617-620.		0