

# Miquel Casals

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/181584/miquel-casals-publications-by-year.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	1,482 citations	22 h-index	36 g-index
73 ext. papers	1,721 ext. citations	6.2 avg, IF	5.05 L-index

#	Paper	IF	Citations
67	Exploring the Potential of a Gamified Approach to Reduce Energy Use and Carbon Emissions in the Household Sector. <i>Sustainability</i> , <b>2021</b> , 13, 3380	3.6	2
66	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> , <b>2021</b> , 122, 103478	9.6	9
65	Influence of HFM Thermal Contact on the Accuracy of In Situ Measurements of Façades U-Value in Operational Stage. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 979	2.6	3
64	Field study on thermal comfort in nursing homes in heated environments. <i>Energy and Buildings</i> , <b>2021</b> , 244, 111032	7	8
63	Field study on adaptive thermal comfort models for nursing homes in the Mediterranean climate. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111475	7	4
62	Analysis of the Applicability of Non-Destructive Techniques to Determine In Situ Thermal Transmittance in Passive House Façades. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8337	2.6	5
61	Thermographic 2D U-value map for quantifying thermal bridges in building façades. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110176	7	18
60	Results and insight gained from applying the EnergyCat energy-saving serious game in UK social housing. <i>International Journal of Serious Games</i> , <b>2020</b> , 7, 27-48	1.8	3
59	Office representatives for cost-optimal energy retrofitting analysis: A novel approach using cluster analysis of energy performance certificate databases. <i>Energy and Buildings</i> , <b>2020</b> , 206, 109557	7	13
58	Assessing the effectiveness of gamification in reducing domestic energy consumption: Lessons learned from the EnerGAware project. <i>Energy and Buildings</i> , <b>2020</b> , 210, 109753	7	19
57	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> , <b>2020</b> , 186, 107354	6.5	12
56	Summer thermal comfort in nursing homes in the Mediterranean climate. <i>Energy and Buildings</i> , <b>2020</b> , 229, 110442	7	11
55	Life-cycle environmental and cost-effective energy retrofitting solutions for office stock. <i>Sustainable Cities and Society</i> , <b>2020</b> , 61, 102319	10.1	11
54	Life Cycle Analysis of a Game-Based Solution for Domestic Energy Saving. <i>Sustainability</i> , <b>2020</b> , 12, 6699	3.6	4
53	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> , <b>2019</b> , 159, 106123	6.5	15
52	Energy Benchmarking of Existing Office Stock in Spain: Trends and Drivers. <i>Sustainability</i> , <b>2019</b> , 11, 6356	3.6	3
51	Reduced-order modeling for energy performance contracting. <i>Energy and Buildings</i> , <b>2018</b> , 167, 216-230	7	13

50	Estimation of a room ventilation air change rate using a stochastic grey-box modelling approach. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 124, 539-548	4.6	9
49	Assessing the influence of operating conditions and thermophysical properties on the accuracy of in-situ measured U-values using quantitative internal infrared thermography. <i>Energy and Buildings</i> , <b>2018</b> , 171, 64-75	7	33
48	Review of criteria for determining HFM minimum test duration. <i>Energy and Buildings</i> , <b>2018</b> , 176, 360-370	7	14
47	In situ measurement of façades with a low U-value: Avoiding deviations. <i>Energy and Buildings</i> , <b>2018</b> , 170, 61-73	7	28
46	Modelling indoor air carbon dioxide concentration using grey-box models. <i>Building and Environment</i> , <b>2017</b> , 117, 146-153	6.5	11
45	Factors Affecting Rework Costs in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 04017032	4.2	41
44	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> , <b>2017</b> , 91,	6.6	17
43	A serious game enhancing social tenants' behavioral change towards energy efficiency <b>2017</b> ,		8
42	Quantitative internal infrared thermography for determining in-situ thermal behaviour of façades. <i>Energy and Buildings</i> , <b>2017</b> , 151, 187-197	7	69
41	Implementation of predictive control in a commercial building energy management system using neural networks. <i>Energy and Buildings</i> , <b>2017</b> , 151, 511-519	7	33
40	Development and calibration of a model for the dynamic simulation of fans with induction motors. <i>Applied Thermal Engineering</i> , <b>2017</b> , 111, 647-659	5.8	3
39	Handover defects: comparison of construction and post-handover housing defects. <i>Building Research and Information</i> , <b>2016</b> , 44, 279-288	4.3	36
38	Predicting fuel energy consumption during earthworks. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 3798-3809	10.3	22
37	Energy mapping of existing building stock in Spain. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 3895-3904	10.3	79
36	Reducing lighting electricity use in underground metro stations. <i>Energy Conversion and Management</i> , <b>2016</b> , 119, 130-141	10.6	11
35	Energy performance assessment of an intelligent energy management system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 55, 662-667	16.2	20
34	SEAM4US: An intelligent energy management system for underground stations. <i>Applied Energy</i> , <b>2016</b> , 166, 150-164	10.7	23
33	Model predictive energy control of ventilation for underground stations. <i>Energy and Buildings</i> , <b>2016</b> , 116, 326-340	7	24

32	Classifying System for Fañdes and Anomalies. <i>Journal of Performance of Constructed Facilities</i> , <b>2016</b> , 30, 04014187	2	13
31	A comparison of standardized calculation methods for in situ measurements of fañdes U-value. <i>Energy and Buildings</i> , <b>2016</b> , 130, 592-599	7	61
30	Environmental impacts related to the commissioning and usage phase of an intelligent energy management system. <i>Applied Energy</i> , <b>2015</b> , 138, 216-223	10.7	14
29	A breakdown of energy consumption in an underground station. <i>Energy and Buildings</i> , <b>2014</b> , 78, 89-97	7	51
28	Predicting on-site environmental impacts of municipal engineering works. <i>Environmental Impact Assessment Review</i> , <b>2014</b> , 44, 43-57	5.3	11
27	Analysis of the implementation of effective waste management practices in construction projects and sites. <i>Resources, Conservation and Recycling</i> , <b>2014</b> , 93, 99-111	11.9	71
26	Assessment of construction defects in residential buildings in Spain. <i>Building Research and Information</i> , <b>2014</b> , 42, 629-640	4.3	39
25	Empirical approach for real-time estimation of air flow rates in a subway station. <i>Tunnelling and Underground Space Technology</i> , <b>2014</b> , 42, 25-39	5.7	20
24	Project & construction management <b>2014</b> , 575-616		1
23	Energy savings in underground metro stations through the implementation of an environmental aware control system <b>2014</b> , 431-436		2
22	An Environmental Impact Causal Model for improving the environmental performance of construction processes. <i>Journal of Cleaner Production</i> , <b>2013</b> , 52, 425-437	10.3	52
21	Knowledge management perceptions in construction and design companies. <i>Automation in Construction</i> , <b>2013</b> , 29, 83-91	9.6	59
20	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> , <b>2013</b> , 139, 138-147	4.2	22
19	Standardizing Housing Defects: Classification, Validation, and Benefits. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 968-976	4.2	53
18	Posthandover Housing Defects: Sources and Origins. <i>Journal of Performance of Constructed Facilities</i> , <b>2013</b> , 27, 756-762	2	39
17	Resilience to increasing temperatures: residential building stock adaptation through codes and standards. <i>Building Research and Information</i> , <b>2012</b> , 40, 645-664	4.3	18
16	Un enfoque basado en ontolog�a para la gesti�n integrada del medio ambiente y de la seguridad y la salud en obra. <i>Revista Ingenieria De Construccion</i> , <b>2012</b> , 27, 103-127	1	5
15	Influence of Building Type on Post-Handover Defects in Housing. <i>Journal of Performance of Constructed Facilities</i> , <b>2012</b> , 26, 433-440	2	27

14	Tracking construction defects based on images <b>2012</b> , 723-729		2
13	Exploring the possibility of promoting energy conservation behaviors in public buildings within the ENCOURAGE project <b>2012</b> , 171-178		
12	A computerized model for managing environmental impacts in residential construction projects <b>2012</b> , 201-209		
11	Assessing concerns of interested parties when predicting the significance of environmental impacts related to the construction process of residential buildings. <i>Building and Environment</i> , <b>2011</b> , 46, 1023-1037	6.5	39
10	A web-based system for sharing and disseminating research results: The underground construction case study. <i>Automation in Construction</i> , <b>2010</b> , 19, 458-474	9.6	16
9	Mitigating construction safety risks using prevention through design. <i>Journal of Safety Research</i> , <b>2010</b> , 41, 107-22	4	97
8	Knowledge Management and e-Learning for Underground Construction Projects. <i>Advanced Concurrent Engineering</i> , <b>2010</b> , 257-265		
7	A methodology for predicting the severity of environmental impacts related to the construction process of residential buildings. <i>Building and Environment</i> , <b>2009</b> , 44, 558-571	6.5	98
6	Experiences of success in industrial plants projects. <i>Revista Ingenieria De Construccion</i> , <b>2008</b> , 23,	1	1
5	A strategic knowledge transfer from research projects in the field of tunneling <b>2008</b> , 525-530		
4	Adoption of web databases for document management in SMEs of the construction sector in Spain. <i>Automation in Construction</i> , <b>2007</b> , 16, 411-424	9.6	30
3	An ontology for the Environmental and Safety integration in the construction sector <b>2007</b> , 617-620		
2	Development of an Ontology for the Document Management Systems for Construction <b>2007</b> , 529-536		2
1	Higher education: the coping stone of nursing education?. <i>Journal of Advanced Nursing</i> , <b>1987</b> , 12, 659-693.1		4