

# Justo Garca Sanz-Calcedo

## List of Publications by Year in Descending Order

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

100  
papers

699  
citations

16  
h-index

21  
g-index

105  
ext. papers

866  
ext. citations

2.9  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
100	Cox proportional hazards model used for predictive analysis of the energy consumption of healthcare buildings. <i>Energy and Buildings</i> , <b>2022</b> , 257, 111784	7	2
99	Determining the Learning Profile of Engineering Projects Students from Their Characteristic Motivational Profile. <i>Education Sciences</i> , <b>2022</b> , 12, 256	2.2	0
98	Reduction of the Cycle Time in the Biopsies Diagnosis Through a Simulation Based on the Box Müller Algorithm.. <i>Frontiers in Public Health</i> , <b>2022</b> , 10, 809534	6	
97	Comparative analysis of flat roof systems using life cycle assessment methodology: Application to healthcare buildings. <i>Case Studies in Construction Materials</i> , <b>2022</b> , 17, e01212	2.7	1
96	The teaching-learning process in specific engineering subjects through different technology-based teaching methodologies applied during the State of Alarm. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1193, 012132	0.4	
95	STUDY OF EMBODIED ENERGY IN HEALTHCARE CENTER CONSTRUCTION. <i>Journal of Civil Engineering and Management</i> , <b>2021</b> , 27, 260-267	3	2
94	Life Cycle Assessment (LCA) in the construction of healthcare buildings. Analysis of environmental impact. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 664, 012053	0.3	1
93	Overview of resilience: a concept to assess healthcare infrastructure preparedness against disasters. Evaluation of existing models and applicability to HVAC systems. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 664, 012052	0.3	
92	Failure Modes in Electricity and Telecommunication Facilities in Dwellings in Spain. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5274	2.6	1
91	Assessment of the global warming potential associated with the construction process of healthcare centres. <i>Journal of Building Physics</i> , <b>2021</b> , 44, 309-325	2.6	2
90	Measurement of embodied carbon and energy of HVAC facilities in healthcare centers. <i>Journal of Cleaner Production</i> , <b>2021</b> , 289, 125151	10.3	6
89	Parametric Analysis of Rotational Effects in Seismic Design of Tall Structures. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 597	2.6	2
88	Study of the energy intensity by built areas in a medium-sized Spanish hospital. <i>Energy Efficiency</i> , <b>2021</b> , 14, 1	3	0
87	Evolution of Prevalence of Construction Anomalies in Roofing Elements through Incident Reports. <i>Journal of Performance of Constructed Facilities</i> , <b>2021</b> , 35, 04020136	2	
86	Impact of weather-influenced urban mobility on carbon footprint of Spanish healthcare centres. <i>Journal of Transport and Health</i> , <b>2021</b> , 20, 101017	3	1
85	Markov model of computed tomography equipment. <i>Engineering Failure Analysis</i> , <b>2021</b> , 127, 105506	3.2	2
84	A life cycle analysis of ionizing radiation shielding construction systems in healthcare buildings. <i>Journal of Building Engineering</i> , <b>2021</b> , 41, 102387	5.2	1

83	Condition-based maintenance of ceramic curved tiles roof in Primary Healthcare buildings using Markov chains. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 102517	5.2	2
82	Markov chains estimation of the optimal periodicity for cleaning photovoltaic panels installed in the dehesa. <i>Renewable Energy</i> , <b>2021</b> , 179, 537-549	8.1	0
81	Application of Circular Economy Techniques for Design and Development of Products through Collaborative Project-Based Learning for Industrial Engineer Teaching. <i>Sustainability</i> , <b>2020</b> , 12, 4368	3.6	17
80	Analysis of Learning Motivation in Industrial Engineering Teaching in University of Extremadura (Spain). <i>Sustainability</i> , <b>2020</b> , 12, 4987	3.6	5
79	Analysis of the Installed Productive Capacity in a Medical Angiography Room through Discrete Event Simulation. <i>Processes</i> , <b>2020</b> , 8, 660	2.9	3
78	Potential Savings in DHW Facilities through the Use of Solar Thermal Energy in the Hospitals of Extremadura (Spain). <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	4
77	Implementaci3n del aprendizaje basado en proyectos a trav3s de la tecnolog3a BIM = Implementing Project-Based Learning through BIM Technology. <i>Advances in Building Education</i> , <b>2020</b> , 4, 34	0	
76	USE OF BIM WITH PHOTOGRAMMETRY SUPPORT IN SMALL CONSTRUCTION PROJECTS. CASE STUDY FOR COMMERCIAL FRANCHISES. <i>Journal of Civil Engineering and Management</i> , <b>2020</b> , 26, 513-523 <sup>3</sup>		3
75	Maintenance in hospitals with less than 200 beds: efficiency indicators. <i>Building Research and Information</i> , <b>2020</b> , 48, 526-537	4.3	11
74	Preventive maintenance optimisation of accessible flat roofs in healthcare centres using the Markov chain. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101775	5.2	4
73	Assessment of the maintenance costs of electro-medical equipment in Spanish hospitals. <i>Expert Review of Medical Devices</i> , <b>2020</b> , 17, 855-865	3.5	1
72	Scheduling of Preventive Maintenance in Healthcare Buildings Using Markov Chain. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5263	2.6	7
71	Evaluation of design faults in HVAC systems in housing: A study based on thermohygro-metric variables. <i>Science and Technology for the Built Environment</i> , <b>2020</b> , 26, 177-184	1.8	1
70	Occurrence of faults in water installations of residential buildings: An analysis based on user complaints. <i>Journal of Building Engineering</i> , <b>2020</b> , 27, 100958	5.2	3
69	Identification and Assessment of Failures in Indoor Elements of Buildings in Spain. <i>Journal of Performance of Constructed Facilities</i> , <b>2019</b> , 33, 04019070	2	1
68	Spatial Analysis of Residual Biomass and Location of Future Storage Centers in the Southwest of Europe. <i>Energies</i> , <b>2019</b> , 12, 1978	3.1	4
67	Influence of Climate Conditions on Deficiencies of Building Roofs. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1389	2.6	5
66	Adsorption of Paracetamol in Hospital Wastewater Through Activated Carbon Filters. <i>Sustainability</i> , <b>2019</b> , 11, 2672	3.6	29

65	Anomalies in External Construction Elements in Spain according to Cause-Damage Relationship. <i>Journal of Infrastructure Systems</i> , <b>2019</b> , 25, 05019006	2.9	0
64	Study on the influence of maintenance operations on energy consumption and emissions in healthcare centres by fuzzy cognitive maps. <i>Journal of Building Performance Simulation</i> , <b>2019</b> , 12, 420-432	2.8	8
63	Influence of air velocity on indoor environment quality in unidirectional flow operating theatres: A study based on Computational Fluid Dynamics. <i>E3S Web of Conferences</i> , <b>2019</b> , 85, 02003	0.5	
62	Evaluation of HVAC Design Parameters in High-Performance Hospital Operating Theatres. <i>Sustainability</i> , <b>2019</b> , 11, 1493	3.6	18
61	Sustainable solutions for thermal energy saving in hospital operating theatres. <i>E3S Web of Conferences</i> , <b>2019</b> , 85, 01002	0.5	2
60	Electrical and thermal energy in private hospitals: Consumption indicators focused on healthcare activity. <i>Sustainable Cities and Society</i> , <b>2019</b> , 47, 101482	10.1	22
59	Diagnosis of functioning incidences from judicial claims in building installations in Spain. <i>Journal of Building Physics</i> , <b>2019</b> , 42, 545-567	2.6	
58	Statistical Study of Rainfall Control: The Dagum Distribution and Applicability to the Southwest of Spain. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 453	3	8
57	Developing Project Managers' Transversal Competences Using Building Information Modeling. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4006	2.6	18
56	Study of CO2 emissions from energy consumption in Spanish hospitals. <i>Vibroengineering PROCEDIA</i> , <b>2019</b> , 26, 46-51	0.4	2
55	Application of Predictive Maintenance in Hospital Heating, Ventilation and Air Conditioning Facilities. <i>Emerging Science Journal</i> , <b>2019</b> , 3, 337-343	6	11
54	Determination of the elimination costs of vibrations and dust transmission in refurbishment healthcare buildings works in Spain. <i>Vibroengineering PROCEDIA</i> , <b>2019</b> , 23, 144-148	0.4	
53	Defectos frecuentes en la instalación de capas de impermeabilización en terrazas de azoteas = Frequent flaws in the installation of waterproofing layers in roof terraces. <i>Anales De Edificación</i> , <b>2019</b> , 5, 61	0.1	
52	Waste production on terraces with PVC sheets and study of their CO2 emissions = Producción de residuos en azoteas con láminas de PVC y estudio de sus emisiones de CO2. <i>Building &amp; Management</i> , <b>2019</b> , 3, 42	0.2	
51	Análisis de la Eficiencia de Mantenimiento en un Hospital en Madrid (España) = Analysis of Maintenance Efficiency at a Hospital in Madrid (Spain). <i>Anales De Edificación</i> , <b>2019</b> , 5, 35	0.1	
50	Electricity in hospitals: solutions based on economies of scale = Energía eléctrica en hospitales: soluciones basadas en economías de escala. <i>Building &amp; Management</i> , <b>2019</b> , 3, 12	0.2	
49	A teaching methodology for the real-time assessment of students' competencies related to manufacturing subjects using technology based on electronic devices. <i>Procedia Manufacturing</i> , <b>2019</b> , 41, 579-586	1.5	5
48	Characterization and Appraisal of Technical Specifications in Brick Façade Projects in Spain. <i>Journal of Performance of Constructed Facilities</i> , <b>2018</b> , 32, 04018012	2	9

47	A quantitative analysis of final energy consumption in hospitals in Spain. <i>Sustainable Cities and Society</i> , <b>2018</b> , 36, 169-175	10.1	32
46	Assessment of Energy Consumption in Spanish Hospitals. <i>Green Energy and Technology</i> , <b>2018</b> , 781-791	0.6	2
45	Analytical study on design deficiencies in the envelope projects of healthcare buildings in Spain. <i>Sustainable Cities and Society</i> , <b>2018</b> , 42, 139-147	10.1	21
44	Economic and Environmental Impact of Energy Saving in Healthcare Buildings. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 440	2.6	34
43	An Experimental Technology of Drying and Clean Combustion of Biomass Residues. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 905	2.6	9
42	Quantitative Determination of Potable Cold Water Consumption in German Hospitals. <i>Sustainability</i> , <b>2018</b> , 10, 932	3.6	10
41	General Survey of Construction-Related Complaints in Recent Buildings in Spain. <i>International Journal of Civil Engineering</i> , <b>2018</b> , 16, 1781-1796	1.9	3
40	Optimal Locations of Biomass Logistics Centers for Energy Uses in the Province of Badajoz (Spain). <i>Advanced Engineering Forum</i> , <b>2018</b> , 29, 67-72	0.2	
39	Influence of Air Pressure on Unidirectional Flow Operating Theatres <b>2018</b> ,		2
38	Determination of the Energy Behaviour in Municipalities with Fewer than 6000 Inhabitants in Badajoz (Spain). <i>Energies</i> , <b>2018</b> , 11, 2287	3.1	1
37	Solar Tower Power Plants of Molten Salt External Receivers in Algeria: Analysis of Direct Normal Irradiation on Performance. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1221	2.6	7
36	Study on the use and consumption of water in Spanish private hospitals as related to healthcare activity. <i>Urban Water Journal</i> , <b>2018</b> , 15, 601-608	2.3	4
35	Analytical Determination of Medical Gases Consumption and Their Impact on Hospital Sustainability. <i>Sustainability</i> , <b>2018</b> , 10, 2948	3.6	8
34	Evaluation of Energy Consumption in German Hospitals: Benchmarking in the Public Sector. <i>Energies</i> , <b>2018</b> , 11, 2279	3.1	24
33	Quantitative analysis of the impact of maintenance management on the energy consumption of a hospital in Extremadura (Spain). <i>Sustainable Cities and Society</i> , <b>2017</b> , 30, 217-222	10.1	40
32	An analysis of technical facilities failures in modern Spanish houses. <i>Building Services Engineering Research and Technology</i> , <b>2017</b> , 38, 490-498	2.3	4
31	Analysis on the performance of a high efficiency administrative building in Spain. <i>International Journal of Green Energy</i> , <b>2017</b> , 14, 55-62	3	18
30	Analysis of the Average Annual Consumption of Water in the Hospitals of Extremadura (Spain). <i>Energies</i> , <b>2017</b> , 10, 479	3.1	9

29	A quantitative analysis on the feasibility of 4D Planning Graphic Systems versus Conventional Systems in building projects. <i>Sustainable Cities and Society</i> , <b>2017</b> , 35, 378-384	10.1	23
28	Optimal design of planetary gearboxes for application in machine tools. <i>Procedia Manufacturing</i> , <b>2017</b> , 13, 267-274	1.5	2
27	Ergonomic analysis of the dimension of a precision tool handle: a case study. <i>Procedia Manufacturing</i> , <b>2017</b> , 13, 1336-1343	1.5	4
26	Impact of electrolyte concentration on surface gloss in electropolished stainless steel. <i>Procedia Manufacturing</i> , <b>2017</b> , 13, 663-670	1.5	6
25	Reverse Engineering Applied to the Teaching of Computer Aided Manufacturing. <i>Materials Science Forum</i> , <b>2017</b> , 903, 120-127	0.4	4
24	Failure and damage determination of building roofs. <i>Revista De La Construccion</i> , <b>2017</b> , 16, 145-157	1.2	3
23	Metrology of Surfaces Applied to the Electrochemical Polishing Process. <i>Materials Science Forum</i> , <b>2016</b> , 853, 52-57	0.4	
22	A Quantitative Analysis of Cold Water for Human Consumption in Hospitals in Spain. <i>Journal of Healthcare Engineering</i> , <b>2016</b> , 2016,	3.7	8
21	Qualitative and Quantitative Analyses on Project Deficiencies in Flat-Roof Design in Extremadura, Spain. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 04016061	4.2	17
20	Definition of a Procedure for the Comparative Analysis of Different Welding Technologies. <i>Procedia Engineering</i> , <b>2015</b> , 132, 709-715		1
19	Healthcare Engineering Defined: A White Paper. <i>Journal of Healthcare Engineering</i> , <b>2015</b> , 6, 635-47	3.7	23
18	Design and Project of Masonry Vaults by Software based in Geometry Methods. <i>Journal of Architectural Engineering Technology</i> , <b>2015</b> , 04,	0	1
17	Analysis on Integrated Management of the Quality, Environment and Safety on the Industrial Projects. <i>Procedia Engineering</i> , <b>2015</b> , 132, 140-145		28
16	Guide Design of Precision tool Handle Based on Ergonomics Criteria Using Parametric CAD Software. <i>Procedia Engineering</i> , <b>2015</b> , 132, 1014-1020		5
15	Analysis on energy efficiency in healthcare buildings. <i>Journal of Healthcare Engineering</i> , <b>2014</b> , 5, 361-73	3.7	12
14	A Tool Wear Monitoring System for Steel and Aluminium Alloys Based on the same Sensor Signals and Decision Strategy. <i>Materials Science Forum</i> , <b>2014</b> , 797, 17-22	0.4	1
13	Contribution of Surface Finish Monitoring Signals in CNC Taper Turning. <i>Materials Science Forum</i> , <b>2014</b> , 797, 41-46	0.4	6
12	Quantitative analysis on energy efficiency of health centers according to their size. <i>Energy and Buildings</i> , <b>2014</b> , 73, 7-12	7	20

11	Analysis of the economic impact of environmental biosafety works projects in healthcare centres in Extremadura (Spain). <i>DYNA (Colombia)</i> , <b>2014</b> , 81, 100-105	0.6	12
10	COMPARATIVA ENTRE SISTEMAS CONSTRUCTIVOS DE HUECOS PARA ASCENSORES EN FUNCIÓN DEL ANALISIS DEL CICLO DE VIDA. <i>Dyna (Spain)</i> , <b>2014</b> , 89, 98-105	0.4	2
9	Application of Techniques Based on Reliability for the Improvement of the Teaching of Mechanisms in Industrial Design. <i>Mechanisms and Machine Science</i> , <b>2014</b> , 101-107	0.3	1
8	Tool Wear Estimation for Different Workpiece Materials Using the Same Monitoring System. <i>Procedia Engineering</i> , <b>2013</b> , 63, 608-615		12
7	Surface Finish Monitoring in Taper Turning CNC Using Artificial Neural Network and Multiple Regression Methods. <i>Procedia Engineering</i> , <b>2013</b> , 63, 599-607		15
6	Challenges of Biomass in a Development Model Based on Renewable Energies. <i>Understanding Complex Systems</i> , <b>2013</b> , 747-768	0.4	2
5	Influence of the number of users on the energy efficiency of health centres. <i>Energy and Buildings</i> , <b>2011</b> , 43, 1544-1548	7	11
4	EFICIENCIA DE UNA CALDERA DE BIOMASA EN UN CENTRO HOSPITALARIO. <i>Dyna (Spain)</i> , <b>2011</b> , 86, 343-349		8
3	EDIFICIO PETER: UN EJEMPLO DE CONSTRUCCIÓN BIOCLIMÁTICA Y DE INTEGRACIÓN DE ENERGÍAS RENOVABLES. <i>Dyna (Spain)</i> , <b>2011</b> , 86, 212-221	0.4	8
2	Comparison between building roof construction systems based on the LCA		5
1	Impact of urban mobility on carbon footprint in healthcare centers in Extremadura (Spain). <i>International Journal of Sustainable Transportation</i> , 1-18	3.6	