

# Romeu da Silva Vicente

## 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.

112  
papers

2,661  
citations

31  
h-index

48  
g-index

122  
ext. papers

3,125  
ext. citations

4.1  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
112	Study of a thermally enhanced mortar incorporating phase change materials for overheating reduction in buildings. <i>Journal of Energy Storage</i> , <b>2022</b> , 46, 103876	7.8	4
111	Real-Scale Experimental Evaluation of Energy and Thermal Regulation Effects of PCM-Based Mortars in Lightweight Constructions. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2091	2.6	0
110	Design and Thermal Characterization of Two Construction Solutions with and without Incorporation of Macroencapsulated PCM. <i>Infrastructures</i> , <b>2022</b> , 7, 27	2.6	0
109	Parameter-based seismic vulnerability assessment of Mexican historical buildings: Insights, suitability, and uncertainty treatment. <i>International Journal of Disaster Risk Reduction</i> , <b>2022</b> , 74, 102909	4.5	3
108	The Impact of Thermal Inertia on the Indoor Thermal Environment of Light Steel Framing Constructions. <i>Energies</i> , <b>2022</b> , 15, 3061	3.1	0
107	A Case Study on a Stochastic-Based Optimisation Approach towards the Integration of Photovoltaic Panels in Multi-Residential Social Housing. <i>Energies</i> , <b>2021</b> , 14, 7615	3.1	1
106	Indoor Thermal Environment Challenges of Light Steel Framing in the Southern European Context. <i>Energies</i> , <b>2021</b> , 14, 7025	3.1	2
105	Characterisation of the masonry building stock in Portugal for earthquake risk assessment. <i>Engineering Structures</i> , <b>2021</b> , 233, 111857	4.7	4
104	Seismic Vulnerability Assessment of Portuguese Adobe Buildings. <i>Buildings</i> , <b>2021</b> , 11, 200	3.2	1
103	Optimization of the passive house concept for residential buildings in the South-Brazilian region. <i>Energy and Buildings</i> , <b>2021</b> , 240, 110871	7	5
102	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. <i>Energy</i> , <b>2021</b> , 216, 119213	7.9	7
101	Development of Retrofitting Solutions: Remedial Wall Ties for Masonry Enclosure Brick Walls. <i>Buildings</i> , <b>2021</b> , 11, 28	3.2	
100	Numerical simulations of derived URM-RC buildings: Assessment of strengthening interventions with RC. <i>Journal of Building Engineering</i> , <b>2021</b> , 40, 102304	5.2	
99	Opportunities of Light Steel Framing towards thermal comfort in southern European climates: Long-term monitoring and comparison with the heavyweight construction. <i>Building and Environment</i> , <b>2021</b> , 200, 107937	6.5	7
98	The Importance of In Situ Characterisation for the Mitigation of Poor Indoor Environmental Conditions in Social Housing. <i>Sustainability</i> , <b>2021</b> , 13, 9836	3.6	2
97	Structural vulnerability assessment of facades of Cear� historic cities. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 102461	5.2	1
96	Simulation of passive ventilation strategies towards indoor CO2 concentration reduction for passive houses. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 103108	5.2	3

95	Energy consumption in intermittently heated residential buildings: Light Steel Framing vs hollow brick masonry constructive system. <i>Journal of Building Engineering</i> , <b>2021</b> , 43, 103024	5.2	3
94	Implementation and Challenges of the Passive House Concept in Portugal: Lessons Learnt from Successful Experience. <i>Sustainability</i> , <b>2020</b> , 12, 8761	3.6	5
93	Lightweight and prefabricated construction as a path to energy efficient buildings: thermal design and execution challenges. <i>International Journal of Environment and Sustainable Development</i> , <b>2020</b> , 19, 1	1.3	3
92	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. <i>Metals</i> , <b>2020</b> , 10, 768	2.3	8
91	Multifunctional hybrid structures made of open-cell aluminum foam impregnated with cellulose/graphene nanocomposites. <i>Carbohydrate Polymers</i> , <b>2020</b> , 238, 116197	10.3	9
90	Displacement-based seismic performance evaluation and vulnerability assessment of buildings: The N2 method revisited. <i>Structures</i> , <b>2020</b> , 24, 41-49	3.4	7
89	Thermal characterisation of traditional wall solution of built heritage using the simple hot box-heat flow meter method: In situ measurements and numerical simulation. <i>Applied Thermal Engineering</i> , <b>2020</b> , 169, 114935	5.8	11
88	Cost-benefit analysis of traditional seismic retrofitting strategies integrated in the renovation of stone masonry buildings. <i>Engineering Structures</i> , <b>2020</b> , 206, 110050	4.7	8
87	Seismic Vulnerability Assessment of Existing Reinforced Concrete Buildings in Urban Centers. <i>Sustainability</i> , <b>2020</b> , 12, 1996	3.6	11
86	The use of Artificial Neural Networks to estimate seismic damage and derive vulnerability functions for traditional masonry. <i>Frontiers of Structural and Civil Engineering</i> , <b>2020</b> , 14, 609-622	2.5	10
85	Development of polyurethane foam incorporating phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101177	7.8	16
84	Bacterial cellulose/graphene oxide aerogels with enhanced dimensional and thermal stability. <i>Carbohydrate Polymers</i> , <b>2020</b> , 230, 115598	10.3	24
83	Impact of unoccupied flats on the thermal discomfort and energy demand: Case of a multi-residential building. <i>Energy and Buildings</i> , <b>2020</b> , 209, 109704	7	7
82	Seismic performance-based assessment of urban cultural heritage assets through different macroelement approaches. <i>Journal of Building Engineering</i> , <b>2020</b> , 29, 101083	5.2	5
81	Multiscale Modelling Approach Targeting Optimisation of PCM into Constructive Solutions for Overheating Mitigation in Buildings. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8009	2.6	3
80	Development of structural layers PVC incorporating phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2020</b> , 179, 115707	5.8	7
79	An innovative approach for temperature control of massive concrete structures at early ages based on post-cooling: Proof of concept. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101832	5.2	3
78	In-Situ Experimental Assessment and Numerical Analysis of the Loading Capacity of Traditional Wooden Floors. <i>International Journal of Architectural Heritage</i> , <b>2020</b> , 14, 1284-1295	2.1	2

77	Casting a new light on the seismic risk assessment of stone masonry buildings located within historic centres. <i>Structures</i> , <b>2020</b> , 25, 578-592	3.4	6
76	Influence of the incorporation of phase change materials on temperature development in mortar at early ages: Experiments and numerical simulation. <i>Construction and Building Materials</i> , <b>2019</b> , 225, 1036-1051	6.7	9
75	Characterization and physical properties of aluminium foam/polydimethylsiloxane nanocomposite hybrid structures. <i>Composite Structures</i> , <b>2019</b> , 230, 111521	5.3	14
74	Intervened URM buildings with RC elements: typological characterisation and associated challenges. <i>Bulletin of Earthquake Engineering</i> , <b>2019</b> , 17, 4987-5019	3.7	6
73	The seismic performance-based assessment of a masonry building enclosed in aggregate in Faro (Portugal) by means of a new target structural unit approach. <i>Engineering Structures</i> , <b>2019</b> , 191, 386-400	4.7	10
72	Mechanical and Typological Characterization of Traditional Stone Masonry Walls in Old Urban Centres: A Case Study in Viseu, Portugal. <i>Buildings</i> , <b>2019</b> , 9, 18	3.2	7
71	Buckling Uncertainty Analysis for Steel Pipelines Buried in Elastic Soil Using FOSM and MCS Methods. <i>International Journal of Steel Structures</i> , <b>2019</b> , 19, 381-397	1.3	5
70	Use of post-earthquake damage data to calibrate, validate and compare two seismic vulnerability assessment methods for vernacular architecture. <i>International Journal of Disaster Risk Reduction</i> , <b>2019</b> , 39, 101242	4.5	15
69	Atmospheric corrosion in two different urban environments in Portugal: results of one-year exposure. <i>Corrosion Engineering Science and Technology</i> , <b>2019</b> , 54, 614-626	1.7	0
68	CO <sub>2</sub> experimental measurements towards the development of a predictive framework using user actions in smart buildings. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012061	0.3	1
67	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. <i>Metals</i> , <b>2019</b> , 9, 1214	2.3	8
66	Is the use of traditional seismic strengthening strategies economically attractive in the renovation of urban cultural heritage assets in Portugal?. <i>Bulletin of Earthquake Engineering</i> , <b>2019</b> , 17, 2307-2330	3.7	5
65	Optimisation of a social housing for south of Brazil: From basic performance standard to passive house concept. <i>Energy</i> , <b>2019</b> , 167, 1278-1296	7.9	17
64	Review of environmental and air pollution impacts on built heritage: 10 questions on corrosion and soiling effects for urban intervention. <i>Journal of Cultural Heritage</i> , <b>2019</b> , 37, 273-295	2.9	31
63	Comparison between monitored and simulated data using evolutionary algorithms: Reducing the performance gap in dynamic building simulation. <i>Journal of Building Engineering</i> , <b>2018</b> , 17, 96-106	5.2	26
62	A systematic review of Prefabricated Enclosure Wall Panel Systems: Focus on technology driven for performance requirements. <i>Sustainable Cities and Society</i> , <b>2018</b> , 40, 688-703	10.1	7
61	A critical discussion on the earthquake risk mitigation of urban cultural heritage assets. <i>International Journal of Disaster Risk Reduction</i> , <b>2018</b> , 27, 239-247	4.5	59
60	Seismic risk assessment of the historical urban areas of Annaba city, Algeria. <i>International Journal of Architectural Heritage</i> , <b>2018</b> , 12, 47-62	2.1	8

59	Cultural Heritage Monuments and Historical Buildings: Conservation Works and Structural Retrofitting. <i>Building Pathology and Rehabilitation</i> , <b>2018</b> , 25-57	0.2	5
58	Seismic vulnerability assessment methodology for slender masonry structures. <i>International Journal of Architectural Heritage</i> , <b>2018</b> , 12, 1297-1326	2.1	7
57	The safeguarding and preservation of the Built Heritage in old urban centres: a reflection on traditional stone masonry buildings structural rehabilitation. <i>Conservar Património</i> , <b>2018</b> , 29, 51-62	0.4	2
56	Thermal Energy Storage and Mechanical Performance of Crude Glycerol Polyurethane Composite Foams Containing Phase Change Materials and Expandable Graphite. <i>Materials</i> , <b>2018</b> , 11,	3.5	27
55	Multi-Objective Optimisation of the Energy Performance of Lightweight Constructions Combining Evolutionary Algorithms and Life Cycle Cost. <i>Energies</i> , <b>2018</b> , 11, 1863	3.1	14
54	Investigation Techniques for the Seismic Response Assessment of Buildings Located in Historical Centers. <i>International Journal of Architectural Heritage</i> , <b>2018</b> , 12, 1245-1258	2.1	5
53	Analysis of the impact of large scale seismic retrofitting strategies through the application of a vulnerability-based approach on traditional masonry buildings. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2017</b> , 16, 329-348	2	38
52	Seismic vulnerability assessment of the old city centre of Horta, Azores: calibration and application of a seismic vulnerability index method. <i>Bulletin of Earthquake Engineering</i> , <b>2017</b> , 15, 2879-2899	3.7	49
51	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 79, 1212-1228	16.2	119
50	The seismic performance of stone masonry buildings in Faial island and the relevance of implementing effective seismic strengthening policies. <i>Engineering Structures</i> , <b>2017</b> , 141, 41-58	4.7	22
49	Seismic vulnerability assessment of stone masonry faade walls: Calibration using fragility-based results and observed damage. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2017</b> , 103, 21-37	3.5	31
48	Thermal characterization of polyurethane foams with phase change material. <i>Cincia &amp; Tecnologia Dos Materiais</i> , <b>2017</b> , 29, 1-7		6
47	Discusso do desempenho da envoltria de uma passive house adaptada  zona bioclimtica 2 em acordo com o RTQ-R. <i>Ambiente Construido</i> , <b>2017</b> , 17, 201-222	0.4	2
46	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. <i>Applied Energy</i> , <b>2017</b> , 208, 1208-1221	10.7	51
45	Polyurethane foams with microencapsulated phase change material: Comparative analysis of thermal conductivity characterization approaches. <i>Energy and Buildings</i> , <b>2017</b> , 153, 392-402	7	27
44	Empirical Formulation for Estimating the Fundamental Frequency of Slender Masonry Structures. <i>International Journal of Architectural Heritage</i> , <b>2016</b> , 10, 55-66	2.1	32
43	EARTHQUAKE RISK MITIGATION: THE IMPACT OF SEISMIC RETROFITTING STRATEGIES ON URBAN RESILIENCE. <i>International Journal of Strategic Property Management</i> , <b>2016</b> , 20, 291-304	1.9	5
42	STRUCTURAL AND ARCHITECTURAL CHARACTERISATION OF OLD BUILDING STOCKS: CASE STUDY OF THE OLD CITY CENTRE OF SEIXAL, PORTUGAL, REBUILT AFTER THE GREAT 1755 LISBON EARTHQUAKE. <i>Engineering Structures and Technologies</i> , <b>2016</b> , 7, 126-139	0.2	2

41	Seismic vulnerability assessment of historical urban centres: case study of the old city centre of Faro, Portugal. <i>Journal of Risk Research</i> , <b>2016</b> , 19, 551-580	4.2	47
40	Passive house optimization for Portugal: Overheating evaluation and energy performance. <i>Energy and Buildings</i> , <b>2016</b> , 118, 181-196	7	37
39	Mechanical and thermal characterization of concrete with incorporation of microencapsulated PCM for applications in thermally activated slabs. <i>Construction and Building Materials</i> , <b>2016</b> , 112, 639-647	6.7	46
38	Literature review on the use of phase change materials in glazing and shading solutions. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 515-535	16.2	109
37	Urban fire risk: Evaluation and emergency planning. <i>Journal of Cultural Heritage</i> , <b>2016</b> , 20, 739-745	2.9	37
36	Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. <i>Applied Energy</i> , <b>2016</b> , 179, 64-84	10.7	62
35	Comfort and buildings: climate change vulnerability and strategies. <i>International Journal of Climate Change Strategies and Management</i> , <b>2016</b> , 8, 670-688	3.9	7
34	Thermal comfort and energy performance: Sensitivity analysis to apply the Passive House concept to the Portuguese climate. <i>Building and Environment</i> , <b>2016</b> , 103, 276-288	6.5	60
33	Seismic vulnerability assessment of historical masonry buildings located in Annaba city (Algeria) using non ad-hoc data survey. <i>Bulletin of Earthquake Engineering</i> , <b>2015</b> , 13, 2283-2307	3.7	27
32	Climate change and thermal comfort in Southern Europe housing: A case study from Lisbon. <i>Building and Environment</i> , <b>2015</b> , 92, 440-451	6.5	65
31	Seismic vulnerability and loss assessment of the Nepalese Pagoda temples. <i>Bulletin of Earthquake Engineering</i> , <b>2015</b> , 13, 2197-2223	3.7	10
30	Performance of a window shutter with phase change material under summer Mediterranean climate conditions. <i>Applied Thermal Engineering</i> , <b>2015</b> , 84, 246-256	5.8	61
29	Seismic vulnerability of building aggregates through hybrid and indirect assessment techniques. <i>Bulletin of Earthquake Engineering</i> , <b>2015</b> , 13, 2995-3014	3.7	62
28	Development of a window shutter with phase change materials: Full scale outdoor experimental approach. <i>Energy and Buildings</i> , <b>2015</b> , 88, 110-121	7	62
27	Supporting urban regeneration and building refurbishment. Strategies for building appraisal and inspection of old building stock in city centres. <i>Journal of Cultural Heritage</i> , <b>2015</b> , 16, 1-14	2.9	39
26	A simplified four-branch model for the analytical study of the out-of-plane performance of regular stone URM walls. <i>Engineering Structures</i> , <b>2015</b> , 83, 140-153	4.7	23
25	High Energy Efficiency Retrofits in Portugal. <i>Energy Procedia</i> , <b>2015</b> , 83, 187-196	2.3	7
24	In Situ Flat-Jack Testing of Traditional Masonry Walls: Case Study of the Old City Center of Coimbra, Portugal. <i>International Journal of Architectural Heritage</i> , <b>2015</b> , 9, 794-810	2.1	16

23	Seismic Vulnerability Assessment of Slender Masonry Structures. <i>Advances in Civil and Industrial Engineering Book Series</i> , <b>2015</b> , 313-330	0.5	3
22	Numerical evaluation of a phase change material shutter using solar energy for winter nighttime indoor heating. <i>Journal of Building Physics</i> , <b>2014</b> , 37, 367-394	2.6	17
21	Brick masonry walls with PCM macrocapsules: An experimental approach. <i>Applied Thermal Engineering</i> , <b>2014</b> , 67, 24-34	5.8	124
20	Seismic Risk at the Urban Scale: Assessment, Mapping and Planning. <i>Procedia Economics and Finance</i> , <b>2014</b> , 18, 71-80		20
19	Awareness, Perception and Communication of Earthquake Risk in Portugal: Public Survey. <i>Procedia Economics and Finance</i> , <b>2014</b> , 18, 271-278		19
18	Seismic sensitivity analysis of the common structural components of Nepalese Pagoda temples. <i>Bulletin of Earthquake Engineering</i> , <b>2014</b> , 12, 1679-1703	3.7	24
17	Seismic vulnerability assessment of masonry facade walls: development, application and validation of a new scoring method. <i>Structural Engineering and Mechanics</i> , <b>2014</b> , 50, 541-561		36
16	Seismic Vulnerability and Risk Assessment of Historic Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , <b>2014</b> , 307-348	0.2	14
15	Field observations and interpretation of the structural performance of constructions after the 11 May 2011 Lorca earthquake. <i>Engineering Failure Analysis</i> , <b>2013</b> , 34, 670-692	3.2	90
14	Building typologies identification to support risk mitigation at the urban scale [Case study of the old city centre of Seixal, Portugal. <i>Journal of Cultural Heritage</i> , <b>2013</b> , 14, 449-463	2.9	48
13	Seismic vulnerability assessment of historical urban centres: case study of the old city centre in Seixal, Portugal. <i>Bulletin of Earthquake Engineering</i> , <b>2013</b> , 11, 1753-1773	3.7	89
12	Seismic vulnerability assessment and characterisation of the buildings on Faial Island, Azores. <i>Bulletin of Earthquake Engineering</i> , <b>2012</b> , 10, 27-44	3.7	53
11	Experimental testing and numerical modelling of masonry wall solution with PCM incorporation: A passive construction solution. <i>Energy and Buildings</i> , <b>2012</b> , 49, 235-245	7	119
10	Performance of masonry enclosure walls: lessons learned from recent earthquakes. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2012</b> , 11, 23-34	2	63
9	Seismic vulnerability and risk assessment: case study of the historic city centre of Coimbra, Portugal. <i>Bulletin of Earthquake Engineering</i> , <b>2011</b> , 9, 1067-1096	3.7	150
8	Evaluation of Strengthening Techniques of Traditional Masonry Buildings: Case Study of a Four-Building Aggregate. <i>Journal of Performance of Constructed Facilities</i> , <b>2011</b> , 25, 202-216	2	28
7	A mechanical model for the seismic vulnerability assessment of old masonry buildings. <i>Earthquake and Structures</i> , <b>2011</b> , 2, 25-42		51
6	Numerical Simulation of a PCM Shutter for Buildings Space Heating During the Winter <b>2011</b> ,		10

5	Buildings in the old town of Coimbra: knowledge and action to promote their rehabilitation. <i>Structural Survey</i> , <b>2010</b> , 28, 28-45		
4	. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 1236-1242	4	5 <sup>1</sup>
3	Defects of non-loadbearing masonry walls due to partial basal supports. <i>Construction and Building Materials</i> , <b>2007</b> , 21, 1977-1990	6.7	6
2	Architectonic and constructive characterisation of the old urban centre of Seixal, Portugal. <i>Conservar Património</i> , 17, 21-37	0.4	5
1	The morphology of old urban centres: architectural and constructive survey of Bairro Ribeirinho of Faro, Portugal. <i>Conservar Património</i> , 21, 5-24	0.4	2