Romeu da Silva Vicente

List of Publications by Citations

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	Seismic vulnerability and risk assessment: case study of the historic city centre of Coimbra, Portugal. *Bulletin of Earthquake Engineering*, **2011**, 9, 1067-1096	3.7	150
111	Brick masonry walls with PCM macrocapsules: An experimental approach. *Applied Thermal Engineering*, **2014**, 67, 24-34	5.8	124
110	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. *Renewable and Sustainable Energy Reviews*, **2017**, 79, 1212-1228	16.2	119
109	Experimental testing and numerical modelling of masonry wall solution with PCM incorporation: A passive construction solution. *Energy and Buildings*, **2012**, 49, 235-245	7	119
108	Literature review on the use of phase change materials in glazing and shading solutions. *Renewable and Sustainable Energy Reviews*, **2016**, 53, 515-535	16.2	109
107	Field observations and interpretation of the structural performance of constructions after the 11 May 2011 Lorca earthquake. *Engineering Failure Analysis*, **2013**, 34, 670-692	3.2	90
106	Seismic vulnerability assessment of historical urban centres: case study of the old city centre in Seixal, Portugal. *Bulletin of Earthquake Engineering*, **2013**, 11, 1753-1773	3.7	89
105	Climate change and thermal comfort in Southern Europe housing: A case study from Lisbon. *Building and Environment*, **2015**, 92, 440-451	6.5	65
104	Performance of masonry enclosure walls: lessons learned from recent earthquakes. *Earthquake Engineering and Engineering Vibration*, **2012**, 11, 23-34	2	63
103	Seismic vulnerability of building aggregates through hybrid and indirect assessment techniques. *Bulletin of Earthquake Engineering*, **2015**, 13, 2995-3014	3.7	62
102	Development of a window shutter with phase change materials: Full scale outdoor experimental approach. *Energy and Buildings*, **2015**, 88, 110-121	7	62
101	Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. *Applied Energy*, **2016**, 179, 64-84	10.7	62
100	Performance of a window shutter with phase change material under summer Mediterranean climate conditions. *Applied Thermal Engineering*, **2015**, 84, 246-256	5.8	61
99	Thermal comfort and energy performance: Sensitivity analysis to apply the Passive House concept to the Portuguese climate. *Building and Environment*, **2016**, 103, 276-288	6.5	60
98	A critical discussion on the earthquake risk mitigation of urban cultural heritage assets. *International Journal of Disaster Risk Reduction*, **2018**, 27, 239-247	4.5	59
97	Seismic vulnerability assessment and characterisation of the buildings on Faial Island, Azores. *Bulletin of Earthquake Engineering*, **2012**, 10, 27-44	3.7	53
96	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. *Applied Energy*, **2017**, 208, 1208-1221	10.7	51

95	. *IEEE Sensors Journal*, **2008**, 8, 1236-1242	4	51
94	A mechanical model for the seismic vulnerability assessment of old masonry buildings. *Earthquake and Structures*, **2011**, 2, 25-42		51
93	Seismic vulnerability assessment of the old city centre of Horta, Azores: calibration and application of a seismic vulnerability index method. *Bulletin of Earthquake Engineering*, **2017**, 15, 2879-2899	3.7	49
92	Building typologies identification to support risk mitigation at the urban scale – Case study of the old city centre of Seixal, Portugal. *Journal of Cultural Heritage*, **2013**, 14, 449-463	2.9	48
91	Seismic vulnerability assessment of historical urban centres: case study of the old city centre of Faro, Portugal. *Journal of Risk Research*, **2016**, 19, 551-580	4.2	47
90	Mechanical and thermal characterization of concrete with incorporation of microencapsulated PCM for applications in thermally activated slabs. *Construction and Building Materials*, **2016**, 112, 639-647	6.7	46
89	Supporting urban regeneration and building refurbishment. Strategies for building appraisal and inspection of old building stock in city centres. *Journal of Cultural Heritage*, **2015**, 16, 1-14	2.9	39
88	Analysis of the impact of large scale seismic retrofitting strategies through the application of a vulnerability-based approach on traditional masonry buildings. *Earthquake Engineering and Engineering Vibration*, **2017**, 16, 329-348	2	38
87	Passive house optimization for Portugal: Overheating evaluation and energy performance. *Energy and Buildings*, **2016**, 118, 181-196	7	37
86	Urban fire risk: Evaluation and emergency planning. *Journal of Cultural Heritage*, **2016**, 20, 739-745	2.9	37
85	Seismic vulnerability assessment of masonry facade walls: development, application and validation of a new scoring method. *Structural Engineering and Mechanics*, **2014**, 50, 541-561		36
84	Empirical Formulation for Estimating the Fundamental Frequency of Slender Masonry Structures. *International Journal of Architectural Heritage*, **2016**, 10, 55-66	2.1	32
83	Seismic vulnerability assessment of stone masonry façade walls: Calibration using fragility-based results and observed damage. *Soil Dynamics and Earthquake Engineering*, **2017**, 103, 21-37	3.5	31
82	Review of environmental and air pollution impacts on built heritage: 10 questions on corrosion and soiling effects for urban intervention. *Journal of Cultural Heritage*, **2019**, 37, 273-295	2.9	31
81	Evaluation of Strengthening Techniques of Traditional Masonry Buildings: Case Study of a Four-Building Aggregate. *Journal of Performance of Constructed Facilities*, **2011**, 25, 202-216	2	28
80	Seismic vulnerability assessment of historical masonry buildings located in Annaba city (Algeria) using non ad-hoc data survey. *Bulletin of Earthquake Engineering*, **2015**, 13, 2283-2307	3.7	27
79	Polyurethane foams with microencapsulated phase change material: Comparative analysis of thermal conductivity characterization approaches. *Energy and Buildings*, **2017**, 153, 392-402	7	27
78	Thermal Energy Storage and Mechanical Performance of Crude Glycerol Polyurethane Composite Foams Containing Phase Change Materials and Expandable Graphite. *Materials*, **2018**, 11,	3.5	27

77	Comparison between monitored and simulated data using evolutionary algorithms: Reducing the performance gap in dynamic building simulation. *Journal of Building Engineering*, **2018**, 17, 96-106	5.2	26
76	Seismic sensitivity analysis of the common structural components of Nepalese Pagoda temples. *Bulletin of Earthquake Engineering*, **2014**, 12, 1679-1703	3.7	24
75	Bacterial cellulose/graphene oxide aerogels with enhanced dimensional and thermal stability. *Carbohydrate Polymers*, **2020**, 230, 115598	10.3	24
74	A simplified four-branch model for the analytical study of the out-of-plane performance of regular stone URM walls. *Engineering Structures*, **2015**, 83, 140-153	4.7	23
73	The seismic performance of stone masonry buildings in Faial island and the relevance of implementing effective seismic strengthening policies. *Engineering Structures*, **2017**, 141, 41-58	4.7	22
72	Seismic Risk at the Urban Scale: Assessment, Mapping and Planning. *Procedia Economics and Finance*, **2014**, 18, 71-80		20
71	Awareness, Perception and Communication of Earthquake Risk in Portugal: Public Survey. *Procedia Economics and Finance*, **2014**, 18, 271-278		19
70	Numerical evaluation of a phase change material shutter using solar energy for winter nighttime indoor heating. *Journal of Building Physics*, **2014**, 37, 367-394	2.6	17
69	Optimisation of a social housing for south of Brazil: From basic performance standard to passive house concept. *Energy*, **2019**, 167, 1278-1296	7.9	17
68	In Situ Flat-Jack Testing of Traditional Masonry Walls: Case Study of the Old City Center of Coimbra, Portugal. *International Journal of Architectural Heritage*, **2015**, 9, 794-810	2.1	16
67	Development of polyurethane foam incorporating phase change material for thermal energy storage. *Journal of Energy Storage*, **2020**, 28, 101177	7.8	16
66	Use of post-earthquake damage data to calibrate, validate and compare two seismic vulnerability assessment methods for vernacular architecture. *International Journal of Disaster Risk Reduction*, **2019**, 39, 101242	4.5	15
65	Characterization and physical properties of aluminium foam polydimethylsiloxane nanocomposite hybrid structures. *Composite Structures*, **2019**, 230, 111521	5.3	14
64	Seismic Vulnerability and Risk Assessment of Historic Masonry Buildings. *Building Pathology and Rehabilitation*, **2014**, 307-348	0.2	14
63	Multi-Objective Optimisation of the Energy Performance of Lightweight Constructions Combining Evolutionary Algorithms and Life Cycle Cost. *Energies*, **2018**, 11, 1863	3.1	14
62	Thermal characterisation of traditional wall solution of built heritage using the simple hot box-heat flow meter method: In situ measurements and numerical simulation. *Applied Thermal Engineering*, **2020**, 169, 114935	5.8	11
61	Seismic Vulnerability Assessment of Existing Reinforced Concrete Buildings in Urban Centers. *Sustainability*, **2020**, 12, 1996	3.6	11
60	The seismic performance-based assessment of a masonry building enclosed in aggregate in Faro (Portugal) by means of a new target structural unit approach. *Engineering Structures*, **2019**, 191, 386-400	4.7	10

59	Seismic vulnerability and loss assessment of the Nepalese Pagoda temples. *Bulletin of Earthquake Engineering*, **2015**, 13, 2197-2223	3.7	10
58	Numerical Simulation of a PCM Shutter for Buildings Space Heating During the Winter **2011**,		10
57	The use of Artificial Neural Networks to estimate seismic damage and derive vulnerability functions for traditional masonry. *Frontiers of Structural and Civil Engineering*, **2020**, 14, 609-622	2.5	10
56	Influence of the incorporation of phase change materials on temperature development in mortar at early ages: Experiments and numerical simulation. *Construction and Building Materials*, **2019**, 225, 1036-1051	6.7	9
55	Multifunctional hybrid structures made of open-cell aluminum foam impregnated with cellulose/graphene nanocomposites. *Carbohydrate Polymers*, **2020**, 238, 116197	10.3	9
54	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. *Metals*, **2020**, 10, 768	2.3	8
53	Cost-benefit analysis of traditional seismic retrofitting strategies integrated in the renovation of stone masonry buildings. *Engineering Structures*, **2020**, 206, 110050	4.7	8
52	Seismic risk assessment of the historical urban areas of Annaba city, Algeria. *International Journal of Architectural Heritage*, **2018**, 12, 47-62	2.1	8
51	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. *Metals*, **2019**, 9, 1214	2.3	8
50	Mechanical and Typological Characterization of Traditional Stone Masonry Walls in Old Urban Centres: A Case Study in Viseu, Portugal. *Buildings*, **2019**, 9, 18	3.2	7
49	Displacement-based seismic performance evaluation and vulnerability assessment of buildings: The N2 method revisited. *Structures*, **2020**, 24, 41-49	3.4	7
48	A systematic review of Prefabricated Enclosure Wall Panel Systems: Focus on technology driven for performance requirements. *Sustainable Cities and Society*, **2018**, 40, 688-703	10.1	7
47	Seismic vulnerability assessment methodology for slender masonry structures. *International Journal of Architectural Heritage*, **2018**, 12, 1297-1326	2.1	7
46	High Energy Efficiency Retrofits in Portugal. *Energy Procedia*, **2015**, 83, 187-196	2.3	7
45	Impact of unoccupied flats on the thermal discomfort and energy demand: Case of a multi-residential building. *Energy and Buildings*, **2020**, 209, 109704	7	7
44	Development of structural layers PVC incorporating phase change materials for thermal energy storage. *Applied Thermal Engineering*, **2020**, 179, 115707	5.8	7
43	Comfort and buildings: climate change vulnerability and strategies. *International Journal of Climate Change Strategies and Management*, **2016**, 8, 670-688	3.9	7
42	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. *Energy*, **2021**, 216, 119213	7.9	7

41	Opportunities of Light Steel Framing towards thermal comfort in southern European climates: Long-term monitoring and comparison with the heavyweight construction. *Building and Environment*, **2021**, 200, 107937	6.5	7
40	Thermal characterization of polyurethane foams with phase change material. *Ciência & Tecnologia Dos Materiais*, **2017**, 29, 1-7		6
39	Intervened URM buildings with RC elements: typological characterisation and associated challenges. *Bulletin of Earthquake Engineering*, **2019**, 17, 4987-5019	3.7	6
38	Defects of non-loadbearing masonry walls due to partial basal supports. *Construction and Building Materials*, **2007**, 21, 1977-1990	6.7	6
37	Casting a new light on the seismic risk assessment of stone masonry buildings located within historic centres. *Structures*, **2020**, 25, 578-592	3.4	6
36	Implementation and Challenges of the Passive House Concept in Portugal: Lessons Learnt from Successful Experience. *Sustainability*, **2020**, 12, 8761	3.6	5
35	Cultural Heritage Monuments and Historical Buildings: Conservation Works and Structural Retrofitting. *Building Pathology and Rehabilitation*, **2018**, 25-57	0.2	5
34	EARTHQUAKE RISK MITIGATION: THE IMPACT OF SEISMIC RETROFITTING STRATEGIES ON URBAN RESILIENCE. *International Journal of Strategic Property Management*, **2016**, 20, 291-304	1.9	5
33	Buckling Uncertainty Analysis for Steel Pipelines Buried in Elastic Soil Using FOSM and MCS Methods. *International Journal of Steel Structures*, **2019**, 19, 381-397	1.3	5
32	Architectonic and constructive characterisation of the old urban centre of Seixal, Portugal. *Conservar Patrimonio*,17, 21-37	0.4	5
31	Seismic performance-based assessment of urban cultural heritage assets through different macroelement approaches. *Journal of Building Engineering*, **2020**, 29, 101083	5.2	5
30	Optimization of the passive house concept for residential buildings in the South-Brazilian region. *Energy and Buildings*, **2021**, 240, 110871	7	5
29	Is the use of traditional seismic strengthening strategies economically attractive in the renovation of urban cultural heritage assets in Portugal?. *Bulletin of Earthquake Engineering*, **2019**, 17, 2307-2330	3.7	5
28	Investigation Techniques for the Seismic Response Assessment of Buildings Located in Historical Centers. *International Journal of Architectural Heritage*, **2018**, 12, 1245-1258	2.1	5
27	Study of a thermally enhanced mortar incorporating phase change materials for overheating reduction in buildings. *Journal of Energy Storage*, **2022**, 46, 103876	7.8	4
26	Characterisation of the masonry building stock in Portugal for earthquake risk assessment. *Engineering Structures*, **2021**, 233, 111857	4.7	4
25	Lightweight and prefabricated construction as a path to energy efficient buildings: thermal design and execution challenges. *International Journal of Environment and Sustainable Development*, **2020**, 19, 1	1.3	3
24	Seismic Vulnerability Assessment of Slender Masonry Structures. *Advances in Civil and Industrial Engineering Book Series*, **2015**, 313-330	0.5	3

23	Multiscale Modelling Approach Targeting Optimisation of PCM into Constructive Solutions for Overheating Mitigation in Buildings. *Applied Sciences (Switzerland)*, **2020**, 10, 8009	2.6	3
22	An innovative approach for temperature control of massive concrete structures at early ages based on post-cooling: Proof of concept. *Journal of Building Engineering*, **2020**, 32, 101832	5.2	3
21	Simulation of passive ventilation strategies towards indoor CO2 concentration reduction for passive houses. *Journal of Building Engineering*, **2021**, 43, 103108	5.2	3
20	Energy consumption in intermittently heated residential buildings: Light Steel Framing vs hollow brick masonry constructive system. *Journal of Building Engineering*, **2021**, 43, 103024	5.2	3
19	Parameter-based seismic vulnerability assessment of Mexican historical buildings: Insights, suitability, and uncertainty treatment. *International Journal of Disaster Risk Reduction*, **2022**, 74, 102909	4.5	3
18	Discussão do desempenho da envolvência de uma passive house adaptada à zona bioclimática 2 em acordo com o RTQ-R. *Ambiente Construído*, **2017**, 17, 201-222	0.4	2
17	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. *Engineering Structures and Technologies*, **2016**, 7, 126-139	0.2	2
16	The morphology of old urban centres: architectural and constructive survey of Bairro Ribeirinho of Faro, Portugal. *Conservar Patrimonio*,21, 5-24	0.4	2
15	The safeguarding and preservation of the Built Heritage in old urban centres: a reflection on traditional stone masonry buildingsSstructural rehabilitation. *Conservar Patrimonio*, **2018**, 29, 51-62	0.4	2
14	Indoor Thermal Environment Challenges of Light Steel Framing in the Southern European Context. *Energies*, **2021**, 14, 7025	3.1	2
13	In-Situ Experimental Assessment and Numerical Analysis of the Loading Capacity of Traditional Wooden Floors. *International Journal of Architectural Heritage*, **2020**, 14, 1284-1295	2.1	2
12	The Importance of In Situ Characterisation for the Mitigation of Poor Indoor Environmental Conditions in Social Housing. *Sustainability*, **2021**, 13, 9836	3.6	2
11	A Case Study on a Stochastic-Based Optimisation Approach towards the Integration of Photovoltaic Panels in Multi-Residential Social Housing. *Energies*, **2021**, 14, 7615	3.1	1
10	Seismic Vulnerability Assessment of Portuguese Adobe Buildings. *Buildings*, **2021**, 11, 200	3.2	1
9	CO2experimental measurements towards the development of a predictive framework using user actions in smart buildings. *Journal of Physics: Conference Series*, **2019**, 1343, 012061	0.3	1
8	Structural vulnerability assessment of facades of Ceará historic cities. *Journal of Building Engineering*, **2021**, 42, 102461	5.2	1
7	Atmospheric corrosion in two different urban environments in Portugal: results of one-year exposure. *Corrosion Engineering Science and Technology*, **2019**, 54, 614-626	1.7	0
6	Real-Scale Experimental Evaluation of Energy and Thermal Regulation Effects of PCM-Based Mortars in Lightweight Constructions. *Applied Sciences (Switzerland)*, **2022**, 12, 2091	2.6	0

5	Design and Thermal Characterization of Two Construction Solutions with and without Incorporation of Macroencapsulated PCM. *Infrastructures*, **2022**, 7, 27	2.6	0
4	The Impact of Thermal Inertia on the Indoor Thermal Environment of Light Steel Framing Constructions. *Energies*, **2022**, 15, 3061	3.1	0
3	Buildings in the old town of Coimbra: knowledge and action to promote their rehabilitation. *Structural Survey*, **2010**, 28, 28-45		
2	Development of Retrofitting Solutions: Remedial Wall Ties for Masonry Enclosure Brick Walls. *Buildings*, **2021**, 11, 28	3.2	
1	Numerical simulations of derived URM-RC buildings: Assessment of strengthening interventions with RC. *Journal of Building Engineering*, **2021**, 40, 102304	5.2	