

Anã-bal Costa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1892819/publications.pdf>

Version: 2024-02-01

121
papers

2,900
citations

172457

29
h-index

206112

48
g-index

125
all docs

125
docs citations

125
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of adobe bricks in ancient constructions. <i>Construction and Building Materials</i> , 2012, 28, 36-44.	7.2	143
2	Optical Fiber Accelerometer System for Structural Dynamic Monitoring. <i>IEEE Sensors Journal</i> , 2009, 9, 1347-1354.	4.7	126
3	Simplified Macro-Model for Infill Masonry Panels. <i>Journal of Earthquake Engineering</i> , 2010, 14, 390-416.	2.5	126
4	Field observations and interpretation of the structural performance of constructions after the 11 May 2011 Lorca earthquake. <i>Engineering Failure Analysis</i> , 2013, 34, 670-692.	4.0	114
5	Seismic vulnerability assessment of historical urban centres: case study of the old city centre in Seixal, Portugal. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1753-1773.	4.1	111
6	Experimental evaluation of rectangular reinforced concrete column behaviour under biaxial cyclic loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 239-259.	4.4	93
7	Performance of masonry enclosure walls: lessons learned from recent earthquakes. <i>Earthquake Engineering and Engineering Vibration</i> , 2012, 11, 23-34.	2.3	88
8	An empirical power comparison of univariate goodness-of-fit tests for normality. <i>Journal of Statistical Computation and Simulation</i> , 2010, 80, 545-591.	1.2	84
9	A comparative analysis of energy dissipation and equivalent viscous damping of RC columns subjected to uniaxial and biaxial loading. <i>Engineering Structures</i> , 2012, 35, 149-164.	5.3	78
10	Seismic retrofitting solution of an adobe masonry wall. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 203-219.	3.1	77
11	Influence of the testing procedures in the mechanical characterization of adobe bricks. <i>Construction and Building Materials</i> , 2013, 40, 719-728.	7.2	74
12	Analysis of the Out-Of-Plane Seismic Behavior of Unreinforced Masonry: A Literature Review. <i>International Journal of Architectural Heritage</i> , 2015, 9, 949-972.	3.1	73
13	Structural Health Monitoring of the Church of Santa Casa da Misericórdia of Aveiro Using FBG Sensors. <i>IEEE Sensors Journal</i> , 2008, 8, 1236-1242.	4.7	69
14	Numerical modelling of the cyclic behaviour of RC elements built with plain reinforcing bars. <i>Engineering Structures</i> , 2011, 33, 273-286.	5.3	60
15	Seismic vulnerability assessment and characterisation of the buildings on Faial Island, Azores. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 27-44.	4.1	58
16	Urban fire risk: Evaluation and emergency planning. <i>Journal of Cultural Heritage</i> , 2016, 20, 739-745.	3.3	55
17	Comparative efficiency analysis of different nonlinear modelling strategies to simulate the biaxial response of RC columns. <i>Earthquake Engineering and Engineering Vibration</i> , 2012, 11, 553-566.	2.3	53
18	Physical characterization and compression tests of one leaf stone masonry walls. <i>Construction and Building Materials</i> , 2012, 30, 188-197.	7.2	51

#	ARTICLE	IF	CITATIONS
19	Sonic Impact Method – A new technique for characterization of stone masonry walls. <i>Construction and Building Materials</i> , 2012, 36, 27-35.	7.2	43
20	<i>In situ</i> cyclic tests on existing stone masonry walls and strengthening solutions. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 449-471.	4.4	42
21	Damage evolution in reinforced concrete columns subjected to biaxial loading. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1517-1540.	4.1	40
22	Empirical Formulation for Estimating the Fundamental Frequency of Slender Masonry Structures. <i>International Journal of Architectural Heritage</i> , 2016, 10, 55-66.	3.1	38
23	Shear effects on hollow section piers under seismic actions: experimental and numerical analysis. <i>Bulletin of Earthquake Engineering</i> , 2009, 7, 377-389.	4.1	36
24	Behaviour of reinforced concrete column under biaxial cyclic loading – state of the art. <i>International Journal of Advanced Structural Engineering</i> , 2013, 5, 4.	1.3	36
25	Determination of mechanical properties of traditional masonry walls in dwellings of Faial Island, Azores. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1361-1382.	4.4	34
26	Mechanical Properties and Behavior of Traditional Adobe Wall Panels of the Aveiro District. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	33
27	Behaviour Characterization and Rehabilitation of Adobe Construction. <i>Procedia Engineering</i> , 2015, 114, 714-721.	1.2	32
28	Updating Numerical Models of Masonry Arch Bridges by Operational Modal Analysis. <i>International Journal of Architectural Heritage</i> , 2015, 9, 760-774.	3.1	31
29	Experimental characterization of the out-of-plane performance of regular stone masonry walls, including test setups and axial load influence. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 2667-2692.	4.1	31
30	Weldable fibre Bragg grating sensors for steel bridge monitoring. <i>Measurement Science and Technology</i> , 2008, 19, 125305.	2.6	30
31	Structural Behaviour and Retrofitting of Adobe Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , 2014, , 37-75.	0.2	30
32	Evaluation of different strengthening techniques – efficiency for a soft storey building. <i>European Journal of Environmental and Civil Engineering</i> , 2017, 21, 371-388.	2.1	30
33	Out-of-plane behaviour of existing stone masonry buildings: experimental evaluation. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 93-111.	4.1	29
34	Free rocking response of a regular stone masonry wall with equivalent block approach: experimental and analytical evaluation. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 2297-2319.	4.4	29
35	Experimental testing, numerical modelling and seismic strengthening of traditional stone masonry: comprehensive study of a real Azorian pier. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 135-159.	4.1	27
36	Seismic sensitivity analysis of the common structural components of Nepalese Pagoda temples. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 1679-1703.	4.1	27

#	ARTICLE	IF	CITATIONS
37	Investigaciones realizadas en la Universidad de Aveiro sobre caracterización mecánica de las construcciones existentes en adobe en Portugal y propuestas de rehabilitación y refuerzo. Resultados alcanzados. Informes De La Construcción, 2011, 63, 127-142.	0.3	27
38	A non-linear masonry infill macro-model to represent the global behaviour of buildings under cyclic loading. International Journal of Mechanics and Materials in Design, 2008, 4, 123-135.	3.0	26
39	Importance of the bond-slip mechanism in the numerical simulation of the cyclic response of RC elements with plain reinforcing bars. Engineering Structures, 2013, 56, 396-406.	5.3	26
40	Simplified hysteretic model for the representation of the biaxial bending response of RC columns. Engineering Structures, 2012, 44, 146-158.	5.3	25
41	Seismic behavior of RC building structures designed according to current codes. Structures, 2016, 7, 1-13.	3.6	24
42	Out-of-plane behaviour of a full scale stone masonry façade. Part 2: shaking table tests. Earthquake Engineering and Structural Dynamics, 2013, 42, 2097-2111.	4.4	20
43	Applications of Sonic Tests to Masonry Elements: Influence of Joints on the Propagation Velocity of Elastic Waves. Journal of Materials in Civil Engineering, 2013, 25, 667-682.	2.9	20
44	Assessment of mechanical properties of full-scale masonry panels through sonic methods. Comparison with mechanical destructive tests. Structural Control and Health Monitoring, 2016, 23, 503-516.	4.0	20
45	Conservation level of residential buildings: Methodology evolution. Construction and Building Materials, 2018, 172, 781-786.	7.2	20
46	Seismic Vulnerability and Risk Assessment of Historic Masonry Buildings. Building Pathology and Rehabilitation, 2014, , 307-348.	0.2	20
47	Assessment of the Statistical Distributions of Structural Demand Under Earthquake Loading. Journal of Earthquake Engineering, 2011, 15, 724-753.	2.5	19
48	Retrofit of RC hollow piers with CFRP sheets. Composite Structures, 2012, 94, 1280-1287.	5.8	19
49	Strengthening of structures damaged by the Azores earthquake of 1998. Construction and Building Materials, 2006, 20, 252-268.	7.2	18
50	A comparative application of different EC8-3 procedures for the seismic safety assessment of existing structures. Bulletin of Earthquake Engineering, 2010, 8, 91-118.	4.1	18
51	Optical Sensors Based on Fiber Bragg Gratings for Structural Health Monitoring. Lecture Notes in Electrical Engineering, 2011, , 253-295.	0.4	18
52	Calibration and application of a continuum damage model on the simulation of stone masonry structures: Gondar church as a case study. Bulletin of Earthquake Engineering, 2012, 10, 211-234.	4.1	17
53	Seismic vulnerability assessment methodology for slender masonry structures. International Journal of Architectural Heritage, 2018, 12, 1297-1326.	3.1	17
54	In-situ and lab tests for mechanical characterization of stone masonry historical structures. Construction and Building Materials, 2019, 220, 503-515.	7.2	17

#	ARTICLE	IF	CITATIONS
55	CABLE TENSIONING CONTROL AND MODAL IDENTIFICATION OF A CIRCULAR CABLE-STAYED FOOTBRIDGE. <i>Experimental Techniques</i> , 2010, 34, 62-68.	1.5	16
56	Alternative closed-form solutions for the mean rate of exceedance of structural limit states. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1827-1845.	4.4	16
57	In situ Out-of-Plane Cyclic Testing of Original and Strengthened Traditional Stone Masonry Walls Using Airbags. <i>Journal of Earthquake Engineering</i> , 2016, 20, 749-772.	2.5	16
58	Seismic vulnerability and loss assessment of the Nepalese Pagoda temples. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 2197-2223.	4.1	15
59	Geometric indices to quantify textures irregularity of stone masonry walls. <i>Construction and Building Materials</i> , 2016, 111, 199-208.	7.2	15
60	Ambient vibration testing and seismic analysis of a masonry chimney. <i>Journal of Building Appraisal</i> , 2009, 5, 101-121.	0.4	14
61	Evaluation of the EC8-3 confidence factors for the characterization of concrete strength in existing structures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012, 45, 1737-1758.	3.1	14
62	Out-of-plane behaviour of a full scale stone masonry façade. Part 1: specimen and ground motion selection. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 2081-2095.	4.4	14
63	Seismic retrofit of RC frames. <i>Computers and Structures</i> , 2004, 82, 1523-1534.	4.4	13
64	Efficiency of strengthening techniques assessed for existing masonry buildings. <i>Engineering Structures</i> , 2015, 101, 205-215.	5.3	13
65	Common Pathologies in Composite Adobe and Reinforced Concrete Constructions. <i>Journal of Performance of Constructed Facilities</i> , 2012, 26, 389-401.	2.0	12
66	Simulation of masonry out-of-plane failure modes by multi-body dynamics. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2529-2549.	4.4	12
67	A methodology for the probabilistic assessment of behaviour factors. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 47-64.	4.1	11
68	Comparative structural response of two steel bridges constructed 100 years apart. <i>Structure and Infrastructure Engineering</i> , 2011, 7, 843-855.	3.7	11
69	Historic Appraisal Review and Geometric Characterization of Old Masonry Buildings in Lisbon for Seismic Risk Assessment. <i>International Journal of Architectural Heritage</i> , 2022, 16, 1921-1941.	3.1	11
70	Seismic behavior of two Portuguese adobe buildings: Part I - in-plane cyclic testing of a full-scale adobe wall. <i>International Journal of Architectural Heritage</i> , 2018, 12, 922-935.	3.1	9
71	Seismic vulnerability assessment and fragility analysis of pre-code masonry buildings in Portugal. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 6229-6265.	4.1	9
72	Numerical Simulations of RC Hollow Piers Under Horizontal Cyclic Loading. <i>Journal of Earthquake Engineering</i> , 2011, 15, 833-849.	2.5	8

#	ARTICLE	IF	CITATIONS
73	Adobe and Modernism in Alentejo, Portugal. <i>International Journal of Architectural Heritage</i> , 2012, 6, 525-541.	3.1	8
74	Statistical Characterization of Structural Demand under Earthquake Loading. Part 1: Robust Estimation of the Central Value of the Data. <i>Journal of Earthquake Engineering</i> , 2012, 16, 686-718.	2.5	8
75	Survey of the Facade Walls of Existing Adobe Buildings. <i>International Journal of Architectural Heritage</i> , 2016, 10, 867-886.	3.1	8
76	Análise comparativa do comportamento cíclico de uma viga-pilar com armadura lisa e nervurada. <i>Revista IBRACON De Estruturas E Materiais</i> , 2011, 4, 147-172.	0.6	8
77	Cyclic behavior of a two-span RC beam built with plain reinforcing bars. <i>Periodica Polytechnica: Civil Engineering</i> , 2011, 55, 21.	0.6	8
78	Practical aspects of demand and capacity evaluation of RC members in the context of EC8. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 473-499.	4.4	7
79	Simplified models for assessment and optimal redesign of irregular planar frames. <i>Engineering Structures</i> , 2012, 42, 245-257.	5.3	7
80	BEHAVIOR OF RC BUILDING COLUMNS UNDER CYCLIC LOADING: EXPERIMENTAL STUDY. <i>Journal of Earthquake and Tsunami</i> , 2012, 06, 1250026.	1.3	6
81	Probabilistic Performance Analysis of Existing Buildings under Earthquake Loading. <i>Journal of Earthquake Engineering</i> , 2014, 18, 1241-1265.	2.5	6
82	Seismic Analysis of a Portuguese Vernacular Building. <i>Journal of Architectural Engineering</i> , 2018, 24, 05017010.	1.6	6
83	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> , 2019, 17, 2307-2330.	4.1	6
84	Statistical Characterization of Structural Demand under Earthquake Loading. Part 2: Robust Estimation of the Dispersion of the Data. <i>Journal of Earthquake Engineering</i> , 2012, 16, 864-896.	2.5	5
85	Absorbent materials in waterproofing barriers, analysis of the role of diatomaceous earth. <i>Construction and Building Materials</i> , 2016, 102, 125-132.	7.2	5
86	Save the Tabique Construction. <i>Building Pathology and Rehabilitation</i> , 2014, , 157-185.	0.2	5
87	Rehabilitation of an important cultural and architectural heritage: the traditional adobe constructions in Aveiro district. <i>WIT Transactions on Ecology and the Environment</i> , 2007, , .	0.0	5
88	Analytical evaluation of structural component limit state probabilities. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 309-333.	4.1	4
89	Seismic analysis and strengthening of Pico Island Churches. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 181-209.	4.1	4
90	Load-carrying capacity test of a long-span timber truss. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2016, 169, 373-387.	0.8	4

#	ARTICLE	IF	CITATIONS
91	Compressive behaviour of old one-leaf stone masonry walls; the influence of patterns' regularity and constructive process. Construction and Building Materials, 2021, 311, 125339.	7.2	4
92	Ambient vibration testing and seismic fragility analysis of masonry building aggregates. Bulletin of Earthquake Engineering, 2022, 20, 5047-5071.	4.1	4
93	Short term priming effect of brain-actuated muscle stimulation using bimanual movements in stroke. Clinical Neurophysiology, 2022, 138, 108-121.	1.5	4
94	Structural health monitoring of the church of Santa Casa da Misericórdia of Aveiro using FBG sensors. Proceedings of SPIE, 2007, , .	0.8	3
95	Seismic analysis of a building block. Bulletin of Earthquake Engineering, 2012, 10, 235-267.	4.1	3
96	Guest editorial: old masonry under seismic loading. Bulletin of Earthquake Engineering, 2012, 10, 1-5.	4.1	3
97	Diagnosis of balance between Heritage, housing and tourism in historic centers: case studies from Porto (Portugal) and Salvador (Brazil). Conservar Património, 0, 28, 49-56.	0.4	3
98	Reflections on the Rehabilitation and the Retrofit of Historical Constructions. Geotechnical, Geological and Earthquake Engineering, 2010, , 199-221.	0.2	3
99	Seismic Vulnerability Assessment of Slender Masonry Structures. Advances in Civil and Industrial Engineering Book Series, 2015, , 313-330.	0.2	3
100	Residential building rehabilitation in Porto historic center: Case study analysis by using a simulation model. Energy Reports, 2022, 8, 437-441.	5.1	3
101	Ongoing research on seismic safety assessment. Bulletin of Earthquake Engineering, 2010, 8, 181-199.	4.1	2
102	Seismic Retrofit of RC Beam-Column Joints Using the MF-EBR Strengthening Technique. Advanced Materials Research, 0, 452-453, 1099-1104.	0.3	2
103	Carbonated structures in Paraguay: Durability strategies for maintenance planning. Procedia Structural Integrity, 2018, 11, 60-67.	0.8	2
104	Degradation of Façades, Glazing, and Indoor Areas in Social Housing. Journal of Performance of Constructed Facilities, 2019, 33, 04018102.	2.0	2
105	LEVANTAMENTO E CARACTERIZAÇÃO DO PARQUE EDIFICADO EM ADOBE NA CIDADE DE AVEIRO. DigitAR - Revista Digital De Arqueologia Arquitectura E Artes, 2013, , .	0.0	2
106	Evolution of the constructive adobe system in the Porcelain Industrial Unit of Vista Alegre (1937-1945). Conservar Património, 0, 11, 49-69.	0.4	2
107	Construction Systems. Building Pathology and Rehabilitation, 2014, , 1-35.	0.2	2
108	Strengthening and load test of the upper-choir of the Pópulo Church in Braga, Portugal. Journal of Building Appraisal, 2007, 3, 144-154.	0.4	1

#	ARTICLE	IF	CITATIONS
109	Guest editorial: Structural seismic safety assessment. Bulletin of Earthquake Engineering, 2010, 8, 1-3.	4.1	1
110	A simplified shear model for reinforced concrete elements subjected to reverse lateral loadings. Open Engineering, 2012, 2, 136-145.	1.6	1
111	Caracterização das técnicas construtivas em terra edificadas no século XVIII e XIX no centro histórico de São Luís (MA, Brasil). Arquitetura revista, 2011, 7, 81-93.	0.2	1
112	São Luiz do Paraitinga: The Image of São Paulo State in the 18th Century. Protection of Cultural Heritage, 2022, , 87-105.	0.1	1
113	Development of expeditious methods for seismic assessment of precode masonry buildings in Portugal. Earthquake Engineering and Structural Dynamics, 0, , .	4.4	1
114	Characterization of salts progression in walls of earthen architecture heritage. Mineralogical Magazine, 0, , 1-33.	1.4	1
115	Integrated Graphical Environment for Support Nonlinear Dynamic Software for the Analysis of Plane Frames. International Journal of Simulation Modelling, 2007, 6, 102-113.	1.3	0
116	Possible Precursors of Pombalino Cage. Lecture Notes in Civil Engineering, 2016, , 87-99.	0.4	0
117	Analysis and diagnosis of timber structures in Porto historical centre. , 2008, , 653-661.		0
118	Numerical Modeling of RC Bridges for Seismic Risk Analysis. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 457-481.	0.5	0
119	Structural survey and diagnosis of historical constructions “ the experience of the Construction Institute. Vitruvio, 2016, 1, 49.	0.3	0
120	Contributions for experimental and numerical characterization of the structural behaviour of stone arch bridges. IABSE Symposium Report, 2019, , .	0.0	0
121	Strategies and Conservation Concepts in the Bridge of Arco in Marco de Canaveses. Structural Integrity, 2020, , 109-116.	1.4	0