Antonio Arede

List of Publications by Citations

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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.

120 papers	1,640 citations	24 h-index	35 g-index
145 ext. papers	1,964 ext. citations	3 avg, IF	5.17 L-index

#	Paper	IF	Citations
120	Experimental evaluation of out-of-plane capacity of masonry infill walls. *Engineering Structures*, **2016**, 111, 48-63	4.7	112
119	Simplified macro-model for infill masonry walls considering the out-of-plane behaviour. *Earthquake Engineering and Structural Dynamics*, **2016**, 45, 507-524	4	79
118	Experimental evaluation of rectangular reinforced concrete column behaviour under biaxial cyclic loading. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 239-259	4	71
117	A comparative analysis of energy dissipation and equivalent viscous damping of RC columns subjected to uniaxial and biaxial loading. *Engineering Structures*, **2012**, 35, 149-164	4.7	60
116	Seismic performance of the infill masonry walls and ambient vibration tests after the Ghorka 2015, Nepal earthquake. *Bulletin of Earthquake Engineering*, **2017**, 15, 1185-1212	3.7	48
115	Numerical modelling of the cyclic behaviour of RC elements built with plain reinforcing bars. *Engineering Structures*, **2011**, 33, 273-286	4.7	44
114	Modelling of masonry infill walls participation in the seismic behaviour of RC buildings using OpenSees. *International Journal of Advanced Structural Engineering*, **2015**, 7, 117-127	2	43
113	Physical characterization and compression tests of one leaf stone masonry walls. *Construction and Building Materials*, **2012**, 30, 188-197	6.7	40
112	Comparative efficiency analysis of different nonlinear modelling strategies to simulate the biaxial response of RC columns. *Earthquake Engineering and Engineering Vibration*, **2012**, 11, 553-566	2	39
111	Global overview on advances in structural health monitoring platforms. *Journal of Civil Structural Health Monitoring*, **2016**, 6, 461-475	2.9	38
110	In situ cyclic tests on existing stone masonry walls and strengthening solutions. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 449-471	4	38
109	Calibration of the numerical model of a stone masonry railway bridge based on experimentally identified modal parameters. *Engineering Structures*, **2016**, 123, 354-371	4.7	35
108	Out-of-plane behavior of masonry infilled RC frames based on the experimental tests available: A systematic review. *Construction and Building Materials*, **2018**, 168, 831-848	6.7	34
107	2D and 3D Digital Image Correlation in Civil Engineering Measurements in a Masonry Wall. *Procedia Engineering*, **2015**, 114, 215-222		31
106	Behavior of Rectangular Reinforced-Concrete Columns under Biaxial Cyclic Loading and Variable Axial Loads. *Journal of Structural Engineering*, **2016**, 142, 04015085	3	30
105	Damage evolution in reinforced concrete columns subjected to biaxial loading. *Bulletin of Earthquake Engineering*, **2013**, 11, 1517-1540	3.7	30
104	Mainshock-aftershock damage assessment of infilled RC structures. *Engineering Structures*, **2018**, 175, 645-660	4.7	28

103	Free rocking response of a regular stone masonry wall with equivalent block approach: experimental and analytical evaluation. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 2297-2319	4	27
102	Out-of-plane behaviour of existing stone masonry buildings: experimental evaluation. *Bulletin of Earthquake Engineering*, **2012**, 10, 93-111	3.7	26
101	Experimental study of repaired RC columns subjected to uniaxial and biaxial horizontal loading and variable axial load with longitudinal reinforcement welded steel bars solutions. *Engineering Structures*, **2018**, 155, 371-386	4.7	25
100	Shear effects on hollow section piers under seismic actions: experimental and numerical analysis. *Bulletin of Earthquake Engineering*, **2009**, 7, 377-389	3.7	25
99	On the use of under sleeper pads in transition zones at railway underpasses: experimental field testing. *Structure and Infrastructure Engineering*, **2015**, 11, 112-128	2.9	24
98	Effect of the Panel Width Support and Columns Axial Load on the Infill Masonry Walls Out-Of-Plane Behavior. *Journal of Earthquake Engineering*, **2020**, 24, 653-681	1.8	24
97	Prediction of the earthquake response of a three-storey infilled RC structure. *Engineering Structures*, **2018**, 171, 214-235	4.7	24
96	Experimental characterization of the out-of-plane performance of regular stone masonry walls, including test setups and axial load influence. *Bulletin of Earthquake Engineering*, **2015**, 13, 2667-2692	3.7	22
95	Geometric characterisation of Portuguese RC buildings with masonry infill walls. *European Journal of Environmental and Civil Engineering*, **2016**, 20, 396-411	1.5	22
94	Experimental evaluation of energy dissipation and viscous damping of repaired and strengthened RC columns with CFRP jacketing under biaxial load. *Engineering Structures*, **2017**, 145, 162-175	4.7	21
93	Seismic behavior of strengthened RC columns under biaxial loading: An experimental characterization. *Construction and Building Materials*, **2015**, 95, 393-405	6.7	21
92	Long-term monitoring of a damaged historic structure using a wireless sensor network. *Engineering Structures*, **2018**, 161, 108-117	4.7	21
91	Experimental testing, numerical modelling and seismic strengthening of traditional stone masonry: comprehensive study of a real Azorian pier. *Bulletin of Earthquake Engineering*, **2012**, 10, 135-159	3.7	21
90	Updating Numerical Models of Masonry Arch Bridges by Operational Modal Analysis. *International Journal of Architectural Heritage*, **2015**, 9, 760-774	2.1	21
89	Experimental tests on strengthening strategies for masonry infill walls: A literature review. *Construction and Building Materials*, **2020**, 263, 120520	6.7	21
88	Modal identification of infill masonry walls with different characteristics. *Engineering Structures*, **2017**, 145, 118-134	4.7	20
87	Experimental characterization of the mechanical behaviour of components and materials of stone masonry railway bridges. *Construction and Building Materials*, **2017**, 153, 663-681	6.7	19
86	Seismic behavior of RC building structures designed according to current codes. *Structures*, **2016**, 7, 1-13	3.4	19

85	Influence of the in Plane and Out-of-Plane Masonry Infill Walls Interaction in the Structural Response of RC Buildings. *Procedia Engineering*, **2015**, 114, 722-729		18
84	Strengthening of structures damaged by the Azores earthquake of 1998. *Construction and Building Materials*, **2006**, 20, 252-268	6.7	17
83	Simplified hysteretic model for the representation of the biaxial bending response of RC columns. *Engineering Structures*, **2012**, 44, 146-158	4.7	16
82	Seismic Rehabilitation of RC Columns Under Biaxial Loading: An Experimental Characterization. *Structures*, **2015**, 3, 43-56	3.4	15
81	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	3.7	15
80	Retrofit of RC hollow piers with CFRP sheets. *Composite Structures*, **2012**, 94, 1280-1287	5.3	15
79	Study of the Seismic Response on the Infill Masonry Walls of a 15-Storey Reinforced Concrete Structure in Nepal. *Buildings*, **2019**, 9, 39	3.2	14
78	Ambient vibration testing and seismic analysis of a masonry chimney. *Journal of Building Appraisal*, **2009**, 5, 101-121		14
77	In situ Out-of-Plane Cyclic Testing of Original and Strengthened Traditional Stone Masonry Walls Using Airbags. *Journal of Earthquake Engineering*, **2016**, 20, 749-772	1.8	13
76	Calibration of the Numerical Model of a Short-span Masonry Railway Bridge Based on Experimental Modal Parameters. *Procedia Engineering*, **2015**, 114, 846-853		12
75	Detailed FE and DE Modelling of Stone Masonry Arch Bridges for the Assessment of Load-carrying Capacity. *Procedia Engineering*, **2015**, 114, 854-861		11
74	Mechanical properties characterization of different types of masonry infill walls. *Frontiers of Structural and Civil Engineering*, **2020**, 14, 411-434	2.5	11
73	Structural health monitoring of the retrofitting process, characterization and reliability analysis of a masonry heritage construction. *Journal of Civil Structural Health Monitoring*, **2017**, 7, 405-428	2.9	11
72	Simulation of masonry out-of-plane failure modes by multi-body dynamics. *Earthquake Engineering and Structural Dynamics*, **2015**, 44, 2529-2549	4	11
71	In-situ and lab tests for mechanical characterization of stone masonry historical structures. *Construction and Building Materials*, **2019**, 220, 503-515	6.7	10
70	Experimental Characterization of the In-plane and Out-of-Plane Behaviour of Infill Masonry Walls. *Procedia Engineering*, **2015**, 114, 862-869		10
69	Double-Leaf Infill Masonry Walls Cyclic In-Plane Behaviour: Experimental and Numerical Investigation. *Open Construction and Building Technology Journal*, **2018**, 12, 35-48	1.1	10
68	The use of textile-reinforced mortar as a strengthening technique for the infill walls out-of-plane behaviour. *Composite Structures*, **2021**, 255, 113029	5.3	10

67	Advances on the use of non-destructive techniques for mechanical characterization of stone masonry: GPR and sonic tests. *Procedia Structural Integrity*, **2017**, 5, 1108-1115	1	9
66	Calibration of a simplified macro-model for infilled frames with openings. *Advances in Structural Engineering*, **2018**, 21, 157-170	1.9	9
65	Out-of-plane behaviour of a full scale stone masonry façade. Part 2: shaking table tests. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, n/a-n/a	4	9
64	Evaluation of the contribution of masonry infill panels on the seismic behaviour of two existing reinforced concrete buildings. *KSCE Journal of Civil Engineering*, **2016**, 20, 1365-1374	1.9	8
63	Geometric indices to quantify textures irregularity of stone masonry walls. *Construction and Building Materials*, **2016**, 111, 199-208	6.7	8
62	Strengthening of Stone and Brick Masonry Buildings. *Building Pathology and Rehabilitation*, **2018**, 59-84	0.2	8
61	Assessment of the mainshock-aftershock collapse vulnerability of RC structures considering the infills in-plane and out-of-plane behaviour. *Procedia Engineering*, **2017**, 199, 619-624		6
60	Numerical Simulations of RC Hollow Piers Under Horizontal Cyclic Loading. *Journal of Earthquake Engineering*, **2011**, 15, 833-849	1.8	6
59	Comparative Analysis of RC Irregular Buildings Designed According to Different Seismic Design Codes. *Open Construction and Building Technology Journal*, **2013**, 7, 221-229	1.1	6
58	Seismic behavior of coupled column bridge RC piers: Experimental campaign. *Engineering Structures* , **2017**, 132, 399-412	4.7	5
57	In-plane Response of Masonry Infill Walls: Experimental Study using Digital Image Correlation. *Procedia Engineering*, **2015**, 114, 870-876		5
56	Out-of-plane behaviour of a full scale stone masonry façade. Part 1: specimen and ground motion selection. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, n/a-n/a	4	5
55	Experimental Investigation on the Possible Effect of Previous Damage, Workmanship and Test Setup on the Out-of-plane Behaviour of Masonry Infill Walls. *Journal of Earthquake Engineering*,1-32	1.8	5
54	Load-Path Influence in the Response of RC Buildings Subjected to Biaxial Horizontal Loadings: Numerical Study. *International Journal of Civil Engineering*, **2018**, 16, 739-755	1.9	4
53	Mechanical characterization of concrete block used on infill masonry panels. *International Journal of Structural Integrity*, **2018**, 9, 281-295	1	4
52	BEHAVIOR OF RC BUILDING COLUMNS UNDER CYCLIC LOADING: EXPERIMENTAL STUDY. *Journal of Earthquake and Tsunami*, **2012**, 06, 1250026	1.1	4
51	Experimental and numerical investigation of the cyclic response of stainless steel reinforced concrete columns. *Engineering Structures*, **2021**, 252, 113607	4.7	4
50	Non-destructive Method of the Assessment of Stone Masonry by Artificial Neural Networks. *Open Construction and Building Technology Journal*, **2020**, 14, 84-97	1.1	4

49	A Review of the Performance of Infilled RC Structures in Recent Earthquakes. *Applied Sciences (Switzerland)*, **2021**, 11, 5889	2.6	4
48	Cantilever flexural strength tests of masonry infill walls strengthened with textile-reinforced mortar. *Journal of Building Engineering*, **2021**, 33, 101611	5.2	4
47	Numerical modelling of RC strengthened columns under biaxial loading. *Innovative Infrastructure Solutions*, **2016**, 1, 1	2.3	3
46	Seismic analysis of a building block. *Bulletin of Earthquake Engineering*, **2012**, 10, 235-267	3.7	3
45	Seismic analysis and strengthening of Pico Island Churches. *Bulletin of Earthquake Engineering*, **2012** , 10, 181-209	3.7	3
44	Structural reliability assessment based on optical monitoring system: case study. *Revista IBRACON De Estruturas E Materiais*, **2016**, 9, 297-305	0.5	3
43	Nonlinear Analysis of a Multispan Stone Masonry Bridge Under Railway Traffic Loading. *Structural Integrity*, **2020**, 119-127	0.2	3
42	Cost-effective analysis of textile-reinforced mortar solutions used to reduce masonry infill walls collapse probability under seismic loads. *Structures*, **2020**, 28, 141-157	3.4	3
41	Validation of nondestructive methods for assessing stone masonry using artificial neural networks. *Journal of Building Engineering*, **2021**, 42, 102469	5.2	3
40	Experimental characterization of the out-of-plane behaviour of masonry infill walls made of lightweight concrete blocks. *Engineering Structures*, **2021**, 244, 112755	4.7	3
39	Ongoing research on seismic safety assessment. *Bulletin of Earthquake Engineering*, **2010**, 8, 181-199	3.7	2
38	Calibration of the numerical model of a freight railway vehicle based on experimental modal parameters. *Structures*, **2022**, 38, 108-122	3.4	2
37	PERFORMANCE ASSESSMENT OF INFILLED RC STRUCTURES CONSIDERING THE INFILL MASONRY WALLS OUT-OF-PLANE BEHAVIOUR **2017**,		2
36	Experimental Characterization of Mechanical Behaviour of Existing Tabique Walls Under Compressive and Shear Loading. *RILEM Bookseries*, **2019**, 568-576	0.5	2
35	Contributions on Refined Modelling of Stone Arch Bridges. *Structural Integrity*, **2020**, 128-135	0.2	2
34	Correlation Between Sonic and Mechanical Test Results on Stone Masonry Walls. *RILEM Bookseries*, **2019**, 456-464	0.5	2
33	Modelling of Bridges for Inelastic Analysis. *Geotechnical, Geological and Earthquake Engineering*, **2012**, 5-84	0.2	1
32	The infilled RC structures performance in the 25th April, 2015 Gorkha Nepal earthquake: Observations and dynamic characterization tests **2016**, 2517-2524		1

31	Compressive behaviour of old one-leaf stone masonry walls; the influence of patterns□regularity and constructive process. *Construction and Building Materials*, **2021**, 311, 125339	6.7	1
30	Model Updating of a Freight Wagon Based on Dynamic Tests under Different Loading Scenarios. *Applied Sciences (Switzerland)*, **2021**, 11, 10691	2.6	1
29	Improvement of sonic tests methodology for the characterization of stone masonry. *First Break*, **2018**, 36, 59-63	0.5	1
28	A Novel Approach to the in situ Compression Testing of Stone Masonry Walls. *RILEM Bookseries*, **2019**, 741-750	0.5	1
27	Dynamic and Quasi-static Load Tests in a Railway Stone Multispan Masonry Arch Bridge. *Structural Integrity*, **2020**, 516-524	0.2	1
26	Non Linear Shear Effects on the Cyclic Behaviour of RC Hollow Piers. *Advanced Structured Materials*, **2012**, 537-547	0.6	1
25	Train-bridge dynamic interaction on a stone masonry railway bridge **2016**, 357-357		1
24	Experimental assessment of the components and materials of stone arch railway bridges **2016**, 358-358		1
23	Impact of the Textile Mesh on the Efficiency of TRM Strengthening Solutions to Improve the Infill Walls Out-of-Plane Behaviour. *Applied Sciences (Switzerland)*, **2020**, 10, 8745	2.6	1
22	Overstrength factors of RC bridges supported on single and multi-column RC piers in Mexico. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 3695	4	1
21	The role of the openings in the out-of-plane behaviour of masonry infill walls. *Engineering Structures*, **2021**, 244, 112793	4.7	1
20	Effect of the infill panels in the floor response spectra of an 8-storey RC building. *Structures*, **2021**, 34, 2476-2498	3.4	1
19	Experimental and numerical assessment of confined infill walls with openings and textile-reinforced mortar. *Soil Dynamics and Earthquake Engineering*, **2021**, 151, 106960	3.5	1
18	Numerical methodologies for the analysis of stone arch bridges with damage under railway loading. *Structures*, **2022**, 39, 573-592	3.4	1
17	Damage index model and hysteretic viscous damping of masonry infill walls subjected to out-of-plane loadings. *Journal of Building Engineering*, **2022**, 50, 104196	5.2	1
16	Influence of textile reinforced mortars strengthening on the in-plane/out-of-plane response of masonry infill walls in RC frames. *Engineering Structures*, **2022**, 254, 113887	4.7	0
15	Numerical assessment of the load-carrying capacity of a masonry bridge **2018**, 2439-2445		0
14	Employment of optical fibers for RC bond-slip characterization. *Procedia Structural Integrity*, **2018**, 11, 138-144	1	0

13	Interactions between Seismic Safety and Energy Efficiency for Masonry Infill Walls: A Shift of the Paradigm. *Energies*, **2022**, 15, 3269	3.1	0
12	Influence of Infill Masonry Walls in the Seismic Response of Buildings: From Field Observations to Laboratory Research. *Springer Natural Hazards*, **2018**, 451-466	0.7	
11	Tabique walls, a light timber structure constructive details and material characterization. *Architecture, Structures and Construction*,1		
10	Seismic analysis of a stone masonry arch railway bridge **2018**, 1239-1246		
9	Survey Methodologies and Intervention in Stone Masonry Arch Bridges: The Case Study of Esmoriz Bridge. *Structural Integrity*, **2020**, 901-908	0.2	
8	Numerical Modeling of RC Bridges for Seismic Risk Analysis. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*, **2016**, 457-481	0.4	
7	Structural survey and diagnosis of historical constructions the experience of the Construction Institute. *Vitruvio*, **2016**, 1, 49	0.3	
6	Experimental study of the out-of-plane behaviour of masonry infill walls with and without previous in-plane damage **2016**, 1201-1208		
5	Strengthening of Masonry Bridges. *Building Pathology and Rehabilitation*, **2018**, 217-247	0.2	
4	Case Studies and Comparative Evaluation of Methods. *Geotechnical, Geological and Earthquake Engineering*, **2012**, 129-212	0.2	
3	Vulnerability assessment of churches under earthquake hazard **2013**, 695-701		
2	Perspectives and Approaches for the Out-of-Plane Testing of Masonry Infill Walls. *Experimental Techniques*, **2021**, 45, 457-469	1.4	
1	Earthquake source effect and impact of the applied methodology to assess the overstrength factors of RC bridges. *Soil Dynamics and Earthquake Engineering*, **2022**, 157, 107273	3.5	