

Antonio Arede

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.

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	Influence of textile reinforced mortars strengthening on the in-plane/out-of-plane response of masonry infill walls in RC frames. <i>Engineering Structures</i> , 2022 , 254, 113887	4.7	0
119	Calibration of the numerical model of a freight railway vehicle based on experimental modal parameters. <i>Structures</i> , 2022 , 38, 108-122	3.4	2
118	Numerical methodologies for the analysis of stone arch bridges with damage under railway loading. <i>Structures</i> , 2022 , 39, 573-592	3.4	1
117	Earthquake source effect and impact of the applied methodology to assess the overstrength factors of RC bridges. <i>Soil Dynamics and Earthquake Engineering</i> , 2022 , 157, 107273	3.5	
116	Damage index model and hysteretic viscous damping of masonry infill walls subjected to out-of-plane loadings. <i>Journal of Building Engineering</i> , 2022 , 50, 104196	5.2	1
115	Interactions between Seismic Safety and Energy Efficiency for Masonry Infill Walls: A Shift of the Paradigm. <i>Energies</i> , 2022 , 15, 3269	3.1	0
114	Compressive behaviour of old one-leaf stone masonry walls; the influence of patterns' regularity and constructive process. <i>Construction and Building Materials</i> , 2021 , 311, 125339	6.7	1
113	Experimental and numerical investigation of the cyclic response of stainless steel reinforced concrete columns. <i>Engineering Structures</i> , 2021 , 252, 113607	4.7	4
112	Model Updating of a Freight Wagon Based on Dynamic Tests under Different Loading Scenarios. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10691	2.6	1
111	A Review of the Performance of Infilled RC Structures in Recent Earthquakes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5889	2.6	4
110	Cantilever flexural strength tests of masonry infill walls strengthened with textile-reinforced mortar. <i>Journal of Building Engineering</i> , 2021 , 33, 101611	5.2	4
109	Perspectives and Approaches for the Out-of-Plane Testing of Masonry Infill Walls. <i>Experimental Techniques</i> , 2021 , 45, 457-469	1.4	
108	Overstrength factors of RC bridges supported on single and multi-column RC piers in Mexico. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 3695	4	1
107	Validation of nondestructive methods for assessing stone masonry using artificial neural networks. <i>Journal of Building Engineering</i> , 2021 , 42, 102469	5.2	3
106	The role of the openings in the out-of-plane behaviour of masonry infill walls. <i>Engineering Structures</i> , 2021 , 244, 112793	4.7	1
105	Experimental characterization of the out-of-plane behaviour of masonry infill walls made of lightweight concrete blocks. <i>Engineering Structures</i> , 2021 , 244, 112755	4.7	3
104	Effect of the infill panels in the floor response spectra of an 8-storey RC building. <i>Structures</i> , 2021 , 34, 2476-2498	3.4	1

103	Experimental and numerical assessment of confined infill walls with openings and textile-reinforced mortar. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 151, 106960	3.5	1
102	The use of textile-reinforced mortar as a strengthening technique for the infill walls out-of-plane behaviour. <i>Composite Structures</i> , 2021 , 255, 113029	5.3	10
101	Mechanical properties characterization of different types of masonry infill walls. <i>Frontiers of Structural and Civil Engineering</i> , 2020 , 14, 411-434	2.5	11
100	Non-destructive Method of the Assessment of Stone Masonry by Artificial Neural Networks. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 84-97	1.1	4
99	Contributions on Refined Modelling of Stone Arch Bridges. <i>Structural Integrity</i> , 2020 , 128-135	0.2	2
98	Dynamic and Quasi-static Load Tests in a Railway Stone Multispan Masonry Arch Bridge. <i>Structural Integrity</i> , 2020 , 516-524	0.2	1
97	Survey Methodologies and Intervention in Stone Masonry Arch Bridges: The Case Study of Esmoriz Bridge. <i>Structural Integrity</i> , 2020 , 901-908	0.2	
96	Nonlinear Analysis of a Multispan Stone Masonry Bridge Under Railway Traffic Loading. <i>Structural Integrity</i> , 2020 , 119-127	0.2	3
95	Cost-effective analysis of textile-reinforced mortar solutions used to reduce masonry infill walls collapse probability under seismic loads. <i>Structures</i> , 2020 , 28, 141-157	3.4	3
94	Experimental tests on strengthening strategies for masonry infill walls: A literature review. <i>Construction and Building Materials</i> , 2020 , 263, 120520	6.7	21
93	Impact of the Textile Mesh on the Efficiency of TRM Strengthening Solutions to Improve the Infill Walls Out-of-Plane Behaviour. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8745	2.6	1
92	Effect of the Panel Width Support and Columns Axial Load on the Infill Masonry Walls Out-Of-Plane Behavior. <i>Journal of Earthquake Engineering</i> , 2020 , 24, 653-681	1.8	24
91	In-situ and lab tests for mechanical characterization of stone masonry historical structures. <i>Construction and Building Materials</i> , 2019 , 220, 503-515	6.7	10
90	Study of the Seismic Response on the Infill Masonry Walls of a 15-Storey Reinforced Concrete Structure in Nepal. <i>Buildings</i> , 2019 , 9, 39	3.2	14
89	Experimental Characterization of Mechanical Behaviour of Existing Tabique Walls Under Compressive and Shear Loading. <i>RILEM Bookseries</i> , 2019 , 568-576	0.5	2
88	A Novel Approach to the in situ Compression Testing of Stone Masonry Walls. <i>RILEM Bookseries</i> , 2019 , 741-750	0.5	1
87	Correlation Between Sonic and Mechanical Test Results on Stone Masonry Walls. <i>RILEM Bookseries</i> , 2019 , 456-464	0.5	2
86	Long-term monitoring of a damaged historic structure using a wireless sensor network. <i>Engineering Structures</i> , 2018 , 161, 108-117	4.7	21

85	Out-of-plane behavior of masonry infilled RC frames based on the experimental tests available: A systematic review. <i>Construction and Building Materials</i> , 2018 , 168, 831-848	6.7	34
84	Experimental study of repaired RC columns subjected to uniaxial and biaxial horizontal loading and variable axial load with longitudinal reinforcement welded steel bars solutions. <i>Engineering Structures</i> , 2018 , 155, 371-386	4.7	25
83	Influence of Infill Masonry Walls in the Seismic Response of Buildings: From Field Observations to Laboratory Research. <i>Springer Natural Hazards</i> , 2018 , 451-466	0.7	
82	Load-Path Influence in the Response of RC Buildings Subjected to Biaxial Horizontal Loadings: Numerical Study. <i>International Journal of Civil Engineering</i> , 2018 , 16, 739-755	1.9	4
81	Calibration of a simplified macro-model for infilled frames with openings. <i>Advances in Structural Engineering</i> , 2018 , 21, 157-170	1.9	9
80	Mechanical characterization of concrete block used on infill masonry panels. <i>International Journal of Structural Integrity</i> , 2018 , 9, 281-295	1	4
79	Double-Leaf Infill Masonry Walls Cyclic In-Plane Behaviour: Experimental and Numerical Investigation. <i>Open Construction and Building Technology Journal</i> , 2018 , 12, 35-48	1.1	10
78	Improvement of sonic tests methodology for the characterization of stone masonry. <i>First Break</i> , 2018 , 36, 59-63	0.5	1
77	Numerical assessment of the load-carrying capacity of a masonry bridge 2018 , 2439-2445		0
76	Seismic analysis of a stone masonry arch railway bridge 2018 , 1239-1246		
75	Strengthening of Stone and Brick Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , 2018 , 59-84	0.2	8
74	Strengthening of Masonry Bridges. <i>Building Pathology and Rehabilitation</i> , 2018 , 217-247	0.2	
73	Employment of optical fibers for RC bond-slip characterization. <i>Procedia Structural Integrity</i> , 2018 , 11, 138-144	1	0
72	Mainshock-aftershock damage assessment of infilled RC structures. <i>Engineering Structures</i> , 2018 , 175, 645-660	4.7	28
71	Prediction of the earthquake response of a three-storey infilled RC structure. <i>Engineering Structures</i> , 2018 , 171, 214-235	4.7	24
70	Modal identification of infill masonry walls with different characteristics. <i>Engineering Structures</i> , 2017 , 145, 118-134	4.7	20
69	Experimental evaluation of energy dissipation and viscous damping of repaired and strengthened RC columns with CFRP jacketing under biaxial load. <i>Engineering Structures</i> , 2017 , 145, 162-175	4.7	21
68	Assessment of the mainshock-aftershock collapse vulnerability of RC structures considering the infills in-plane and out-of-plane behaviour. <i>Procedia Engineering</i> , 2017 , 199, 619-624		6

67	Advances on the use of non-destructive techniques for mechanical characterization of stone masonry: GPR and sonic tests. <i>Procedia Structural Integrity</i> , 2017 , 5, 1108-1115	1	9
66	Experimental characterization of the mechanical behaviour of components and materials of stone masonry railway bridges. <i>Construction and Building Materials</i> , 2017 , 153, 663-681	6.7	19
65	Structural health monitoring of the retrofitting process, characterization and reliability analysis of a masonry heritage construction. <i>Journal of Civil Structural Health Monitoring</i> , 2017 , 7, 405-428	2.9	11
64	Seismic behavior of coupled column bridge RC piers: Experimental campaign. <i>Engineering Structures</i> , 2017 , 132, 399-412	4.7	5
63	Seismic performance of the infill masonry walls and ambient vibration tests after the Ghorka 2015, Nepal earthquake. <i>Bulletin of Earthquake Engineering</i> , 2017 , 15, 1185-1212	3.7	48
62	PERFORMANCE ASSESSMENT OF INFILLED RC STRUCTURES CONSIDERING THE INFILL MASONRY WALLS OUT-OF-PLANE BEHAVIOUR 2017 ,		2
61	Evaluation of the contribution of masonry infill panels on the seismic behaviour of two existing reinforced concrete buildings. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 1365-1374	1.9	8
60	Calibration of the numerical model of a stone masonry railway bridge based on experimentally identified modal parameters. <i>Engineering Structures</i> , 2016 , 123, 354-371	4.7	35
59	Numerical modelling of RC strengthened columns under biaxial loading. <i>Innovative Infrastructure Solutions</i> , 2016 , 1, 1	2.3	3
58	Global overview on advances in structural health monitoring platforms. <i>Journal of Civil Structural Health Monitoring</i> , 2016 , 6, 461-475	2.9	38
57	Geometric characterisation of Portuguese RC buildings with masonry infill walls. <i>European Journal of Environmental and Civil Engineering</i> , 2016 , 20, 396-411	1.5	22
56	Geometric indices to quantify textures irregularity of stone masonry walls. <i>Construction and Building Materials</i> , 2016 , 111, 199-208	6.7	8
55	Experimental evaluation of out-of-plane capacity of masonry infill walls. <i>Engineering Structures</i> , 2016 , 111, 48-63	4.7	112
54	Behavior of Rectangular Reinforced-Concrete Columns under Biaxial Cyclic Loading and Variable Axial Loads. <i>Journal of Structural Engineering</i> , 2016 , 142, 04015085	3	30
53	The infilled RC structures performance in the 25th April, 2015 Gorkha Nepal earthquake: Observations and dynamic characterization tests 2016 , 2517-2524		1
52	Structural reliability assessment based on optical monitoring system: case study. <i>Revista IBRACON De Estruturas E Materiais</i> , 2016 , 9, 297-305	0.5	3
51	Numerical Modeling of RC Bridges for Seismic Risk Analysis. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2016 , 457-481	0.4	
50	Structural survey and diagnosis of historical constructions [The experience of the Construction Institute. <i>Vitruvio</i> , 2016 , 1, 49	0.3	

49	Experimental study of the out-of-plane behaviour of masonry infill walls with and without previous in-plane damage 2016 , 1201-1208		
48	Train-bridge dynamic interaction on a stone masonry railway bridge 2016 , 357-357		1
47	Experimental assessment of the components and materials of stone arch railway bridges 2016 , 358-358		1
46	Simplified macro-model for infill masonry walls considering the out-of-plane behaviour. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 507-524	4	79
45	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	1.8	13
44	Seismic behavior of RC building structures designed according to current codes. <i>Structures</i> , 2016 , 7, 1-13 _{3,4}		19
43	Seismic behavior of strengthened RC columns under biaxial loading: An experimental characterization. <i>Construction and Building Materials</i> , 2015 , 95, 393-405	6.7	21
42	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	3.7	22
41	Modelling of masonry infill walls participation in the seismic behaviour of RC buildings using OpenSees. <i>International Journal of Advanced Structural Engineering</i> , 2015 , 7, 117-127	2	43
40	Seismic Rehabilitation of RC Columns Under Biaxial Loading: An Experimental Characterization. <i>Structures</i> , 2015 , 3, 43-56	3.4	15
39	Detailed FE and DE Modelling of Stone Masonry Arch Bridges for the Assessment of Load-carrying Capacity. <i>Procedia Engineering</i> , 2015 , 114, 854-861		11
38	Calibration of the Numerical Model of a Short-span Masonry Railway Bridge Based on Experimental Modal Parameters. <i>Procedia Engineering</i> , 2015 , 114, 846-853		12
37	Influence of the in Plane and Out-of-Plane Masonry Infill Walls Interaction in the Structural Response of RC Buildings. <i>Procedia Engineering</i> , 2015 , 114, 722-729		18
36	On the use of under sleeper pads in transition zones at railway underpasses: experimental field testing. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 112-128	2.9	24
35	In-plane Response of Masonry Infill Walls: Experimental Study using Digital Image Correlation. <i>Procedia Engineering</i> , 2015 , 114, 870-876		5
34	Simulation of masonry out-of-plane failure modes by multi-body dynamics. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 2529-2549	4	11
33	2D and 3D Digital Image Correlation in Civil Engineering Measurements in a Masonry Wall. <i>Procedia Engineering</i> , 2015 , 114, 215-222		31
32	Experimental Characterization of the In-plane and Out-of-Plane Behaviour of Infill Masonry Walls. <i>Procedia Engineering</i> , 2015 , 114, 862-869		10

31	Updating Numerical Models of Masonry Arch Bridges by Operational Modal Analysis. <i>International Journal of Architectural Heritage</i> , 2015 , 9, 760-774	2.1	21
30	Experimental evaluation of rectangular reinforced concrete column behaviour under biaxial cyclic loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 239-259	4	71
29	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	27
28	Out-of-plane behaviour of a full scale stone masonry façade. Part 2: shaking table tests. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, n/a-n/a	4	9
27	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, n/a-n/a	4	5
26	Damage evolution in reinforced concrete columns subjected to biaxial loading. <i>Bulletin of Earthquake Engineering</i> , 2013 , 11, 1517-1540	3.7	30
25	Comparative Analysis of RC Irregular Buildings Designed According to Different Seismic Design Codes. <i>Open Construction and Building Technology Journal</i> , 2013 , 7, 221-229	1.1	6
24	Vulnerability assessment of churches under earthquake hazard 2013 , 695-701		
23	Physical characterization and compression tests of one leaf stone masonry walls. <i>Construction and Building Materials</i> , 2012 , 30, 188-197	6.7	40
22	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	4.7	60
21	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	3.7	21
20	Calibration and application of a continuum damage model on the simulation of stone masonry structures: Gondar church as a case study. <i>Bulletin of Earthquake Engineering</i> , 2012 , 10, 211-234	3.7	15
19	Seismic analysis of a building block. <i>Bulletin of Earthquake Engineering</i> , 2012 , 10, 235-267	3.7	3
18	Seismic analysis and strengthening of Pico Island Churches. <i>Bulletin of Earthquake Engineering</i> , 2012 , 10, 181-209	3.7	3
17	Out-of-plane behaviour of existing stone masonry buildings: experimental evaluation. <i>Bulletin of Earthquake Engineering</i> , 2012 , 10, 93-111	3.7	26
16	Simplified hysteretic model for the representation of the biaxial bending response of RC columns. <i>Engineering Structures</i> , 2012 , 44, 146-158	4.7	16
15	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	39
14	Retrofit of RC hollow piers with CFRP sheets. <i>Composite Structures</i> , 2012 , 94, 1280-1287	5.3	15

13	Modelling of Bridges for Inelastic Analysis. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2012 , 5-84	0.2	1
12	BEHAVIOR OF RC BUILDING COLUMNS UNDER CYCLIC LOADING: EXPERIMENTAL STUDY. <i>Journal of Earthquake and Tsunami</i> , 2012 , 06, 1250026	1.1	4
11	Non Linear Shear Effects on the Cyclic Behaviour of RC Hollow Piers. <i>Advanced Structured Materials</i> , 2012 , 537-547	0.6	1
10	Case Studies and Comparative Evaluation of Methods. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2012 , 129-212	0.2	
9	In situ cyclic tests on existing stone masonry walls and strengthening solutions. <i>Earthquake Engineering and Structural Dynamics</i> , 2011 , 40, 449-471	4	38
8	Numerical Simulations of RC Hollow Piers Under Horizontal Cyclic Loading. <i>Journal of Earthquake Engineering</i> , 2011 , 15, 833-849	1.8	6
7	Numerical modelling of the cyclic behaviour of RC elements built with plain reinforcing bars. <i>Engineering Structures</i> , 2011 , 33, 273-286	4.7	44
6	Ongoing research on seismic safety assessment. <i>Bulletin of Earthquake Engineering</i> , 2010 , 8, 181-199	3.7	2
5	Shear effects on hollow section piers under seismic actions: experimental and numerical analysis. <i>Bulletin of Earthquake Engineering</i> , 2009 , 7, 377-389	3.7	25
4	Ambient vibration testing and seismic analysis of a masonry chimney. <i>Journal of Building Appraisal</i> , 2009 , 5, 101-121		14
3	Strengthening of structures damaged by the Azores earthquake of 1998. <i>Construction and Building Materials</i> , 2006 , 20, 252-268	6.7	17
2	Tabique walls, a light timber structure [Constructive details and material characterization. <i>Architecture, Structures and Construction</i> ,1		
1	Experimental Investigation on the Possible Effect of Previous Damage, Workmanship and Test Setup on the Out-of-plane Behaviour of Masonry Infill Walls. <i>Journal of Earthquake Engineering</i> ,1-32	1.8	5