

Antonio Arede

List of Publications by Year in descending order

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138
papers

2,409
citations

186254

28
h-index

254170

43
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145
all docs

145
docs citations

145
times ranked

1440
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evaluation of out-of-plane capacity of masonry infill walls. <i>Engineering Structures</i> , 2016, 111, 48-63.	5.3	148
2	Simplified macro-model for infill masonry walls considering the out-of-plane behaviour. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 507-524.	4.4	111
3	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
4	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
5	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.	1.3	62
6	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.	5.3	61
7	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.	4.1	61
8	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
9	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
10	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.	7.2	52
11	Physical characterization and compression tests of one leaf stone masonry walls. <i>Construction and Building Materials</i> , 2012, 30, 188-197.	7.2	51
12	Global overview on advances in structural health monitoring platforms. <i>Journal of Civil Structural Health Monitoring</i> , 2016, 6, 461-475.	3.9	49
13	Mainshock-aftershock damage assessment of infilled RC structures. <i>Engineering Structures</i> , 2018, 175, 645-660.	5.3	49
14	Behavior of Rectangular Reinforced-Concrete Columns under Biaxial Cyclic Loading and Variable Axial Loads. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	46
15	<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
16	2D and 3D Digital Image Correlation in Civil Engineering – Measurements in a Masonry Wall. <i>Procedia Engineering</i> , 2015, 114, 215-222.	1.2	41
17	Damage evolution in reinforced concrete columns subjected to biaxial loading. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 1517-1540.	4.1	40
18	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.	3.7	37

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19	Experimental tests on strengthening strategies for masonry infill walls: A literature review. <i>Construction and Building Materials</i> , 2020, 263, 120520.	7.2	37
20	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
21	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
22	Geometric characterisation of Portuguese RC buildings with masonry infill walls. <i>European Journal of Environmental and Civil Engineering</i> , 2016, 20, 396-411.	2.1	34
23	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.	2.5	34
24	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.	5.3	33
25	Prediction of the earthquake response of a three-storey infilled RC structure. <i>Engineering Structures</i> , 2018, 171, 214-235.	5.3	32
26	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
27	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
28	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.	3.1	30
29	Out-of-plane behaviour of existing stone masonry buildings: experimental evaluation. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 93-111.	4.1	29
30	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
31	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.	7.2	28
32	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
33	Modal identification of infill masonry walls with different characteristics. <i>Engineering Structures</i> , 2017, 145, 118-134.	5.3	27
34	Long-term monitoring of a damaged historic structure using a wireless sensor network. <i>Engineering Structures</i> , 2018, 161, 108-117.	5.3	27
35	Seismic behavior of strengthened RC columns under biaxial loading: An experimental characterization. <i>Construction and Building Materials</i> , 2015, 95, 393-405.	7.2	26
36	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.	5.3	26

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37	Simplified hysteretic model for the representation of the biaxial bending response of RC columns. <i>Engineering Structures</i> , 2012, 44, 146-158.	5.3	25
38	Seismic behavior of RC building structures designed according to current codes. <i>Structures</i> , 2016, 7, 1-13.	3.6	24
39	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.	1.2	23
40	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.	5.8	22
41	Seismic Rehabilitation of RC Columns Under Biaxial Loading: An Experimental Characterization. <i>Structures</i> , 2015, 3, 43-56.	3.6	21
42	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, 2097-2111.	4.4	20
43	Mechanical properties characterization of different types of masonry infill walls. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 411-434.	2.9	20
44	Retrofit of RC hollow piers with CFRP sheets. <i>Composite Structures</i> , 2012, 94, 1280-1287.	5.8	19
45	Strengthening of structures damaged by the Azores earthquake of 1998. <i>Construction and Building Materials</i> , 2006, 20, 252-268.	7.2	18
46	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.	4.1	17
47	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.	1.2	17
48	Calibration of a simplified macro-model for infilled frames with openings. <i>Advances in Structural Engineering</i> , 2018, 21, 157-170.	2.4	17
49	In-situ and lab tests for mechanical characterization of stone masonry historical structures. <i>Construction and Building Materials</i> , 2019, 220, 503-515.	7.2	17
50	A Review of the Performance of Infilled RC Structures in Recent Earthquakes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5889.	2.5	17
51	<i>In situ</i> 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
52	Experimental and numerical assessment of confined infill walls with openings and textile-reinforced mortar. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 151, 106960.	3.8	16
53	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.	0.7	16
54	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.	1.2	15

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55	Geometric indices to quantify textures irregularity of stone masonry walls. <i>Construction and Building Materials</i> , 2016, 111, 199-208.	7.2	15
56	Ambient vibration testing and seismic analysis of a masonry chimney. <i>Journal of Building Appraisal</i> , 2009, 5, 101-121.	0.4	14
57	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
58	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.	0.8	14
59	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.	3.9	14
60	Model Updating of a Freight Wagon Based on Dynamic Tests under Different Loading Scenarios. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10691.	2.5	14
61	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
62	Experimental Characterization of the In-plane and Out-of-Plane Behaviour of Infill Masonry Walls. <i>Procedia Engineering</i> , 2015, 114, 862-869.	1.2	12
63	Numerical methodologies for the analysis of stone arch bridges with damage under railway loading. <i>Structures</i> , 2022, 39, 573-592.	3.6	12
64	Experimental and numerical investigation of the cyclic response of stainless steel reinforced concrete columns. <i>Engineering Structures</i> , 2022, 252, 113607.	5.3	11
65	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.	5.3	11
66	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> , 2022, 26, 5647-5678.	2.5	10
67	Strengthening of Stone and Brick Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , 2018, , 59-84.	0.2	10
68	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.	0.7	10
69	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.	1.2	9
70	Experimental characterization of the out-of-plane behaviour of masonry infill walls made of lightweight concrete blocks. <i>Engineering Structures</i> , 2021, 244, 112755.	5.3	9
71	Numerical Simulations of RC Hollow Piers Under Horizontal Cyclic Loading. <i>Journal of Earthquake Engineering</i> , 2011, 15, 833-849.	2.5	8
72	In-plane Response of Masonry Infill Walls: Experimental Study using Digital Image Correlation. <i>Procedia Engineering</i> , 2015, 114, 870-876.	1.2	8

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73	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
74	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.	3.6	8
75	Load Path Effect on the Response of Slender Lightly Reinforced Square RC Columns under Biaxial Bending. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	8
76	Calibration of the numerical model of a freight railway vehicle based on experimental modal parameters. <i>Structures</i> , 2022, 38, 108-122.	3.6	8
77	Seismic behavior of coupled column bridge RC piers: Experimental campaign. <i>Engineering Structures</i> , 2017, 132, 399-412.	5.3	7
78	Cantilever flexural strength tests of masonry infill walls strengthened with textile-reinforced mortar. <i>Journal of Building Engineering</i> , 2021, 33, 101611.	3.4	7
79	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.	0.7	7
80	Cyclic behaviour of as-built and strengthened existing reinforced concrete columns previously damaged by fire. <i>Engineering Structures</i> , 2022, 266, 114584.	5.3	7
81	BEHAVIOR OF RC BUILDING COLUMNS UNDER CYCLIC LOADING: EXPERIMENTAL STUDY. <i>Journal of Earthquake and Tsunami</i> , 2012, 06, 1250026.	1.3	6
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.	2.0	6
83	Correlation Between Sonic and Mechanical Test Results on Stone Masonry Walls. <i>RILEM Bookseries</i> , 2019, , 456-464.	0.4	6
84	The role of the openings in the out-of-plane behaviour of masonry infill walls. <i>Engineering Structures</i> , 2021, 244, 112793.	5.3	6
85	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.	2.5	5
86	Validation of nondestructive methods for assessing stone masonry using artificial neural networks. <i>Journal of Building Engineering</i> , 2021, 42, 102469.	3.4	5
87	Effect of the infill panels in the floor response spectra of an 8-storey RC building. <i>Structures</i> , 2021, 34, 2476-2498.	3.6	5
88	Interactions between Seismic Safety and Energy Efficiency for Masonry Infill Walls: A Shift of the Paradigm. <i>Energies</i> , 2022, 15, 3269.	3.1	5
89	Seismic analysis and strengthening of Pico Island Churches. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 181-209.	4.1	4
90	Mechanical characterization of concrete block used on infill masonry panels. <i>International Journal of Structural Integrity</i> , 2018, 9, 281-295.	3.3	4

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91	Overstrength factors of RC bridges supported on single and multi-column RC piers in Mexico. Earthquake Engineering and Structural Dynamics, 2021, 50, 3695-3712.	4.4	4
92	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
93	Seismic analysis of a building block. Bulletin of Earthquake Engineering, 2012, 10, 235-267.	4.1	3
94	Numerical modelling of RC strengthened columns under biaxial loading. Innovative Infrastructure Solutions, 2016, 1, 1.	2.2	3
95	Structural reliability assessment based on optical monitoring system: case study. Revista IBRACON De Estruturas E Materiais, 2016, 9, 297-305.	0.6	3
96	Numerical Modelling of RC Columns Subjected to Biaxial Horizontal Loading and Variable Axial Load. American Journal of Civil Engineering and Architecture, 2015, 3, 28-38.	0.2	3
97	Cyclic behaviour of precast beam-column connections with low seismic detailing. Earthquake Engineering and Structural Dynamics, 2022, 51, 1096-1114.	4.4	3
98	Discrete Element Modeling of a Post-Tensioned Masonry Arch. , 0, , .		3
99	Ongoing research on seismic safety assessment. Bulletin of Earthquake Engineering, 2010, 8, 181-199.	4.1	2
100	Modelling of Bridges for Inelastic Analysis. Geotechnical, Geological and Earthquake Engineering, 2012, , 5-84.	0.2	2
101	PERFORMANCE ASSESSMENT OF INFILLED RC STRUCTURES CONSIDERING THE INFILL MASONRY WALLS OUT-OF-PLANE BEHAVIOUR. , 2017, , .		2
102	EXPERIMENTAL ASSESSMENT OF STRENGTHENING STRATEGY TO IMPROVE THE MASONRY INFILLS OUT-OF-PLANE BEHAVIOUR THROUGH TEXTILE REINFORCED MORTAR. , 2019, , .		2
103	Experimental Characterization of Mechanical Behaviour of Existing Tabique Walls Under Compressive and Shear Loading. RILEM Bookseries, 2019, , 568-576.	0.4	2
104	Contributions on Refined Modelling of Stone Arch Bridges. Structural Integrity, 2020, , 128-135.	1.4	2
105	The Effect of a Textile-Reinforced Mortar on the Flexural Response of Energy-Improved Infill Walls. Journal of Composites for Construction, 2022, 26, .	3.2	2
106	Employment of optical fibers for RC bond-slip characterization. Procedia Structural Integrity, 2018, 11, 138-144.	0.8	1
107	Influence of seismic loading on axial load variation in reinforced concrete columns. E-GFOS, 2018, , 37-49.	0.3	1
108	Perspectives and Approaches for the Out-of-Plane Testing of Masonry Infill Walls. Experimental Techniques, 2021, 45, 457-469.	1.5	1

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109	The infilled RC structures performance in the 25th April, 2015 Gorkha Nepal earthquake: Observations and dynamic characterization tests. , 2016, , 2517-2524.		1
110	Improvement of sonic tests methodology for the characterization of stone masonry. First Break, 2018, 36, 59-63.	0.4	1
111	EXPERIMENTAL AND NUMERICAL STUDY OF RC COLUMNS UNDER BIAXIAL LOADING: AS BUILT. , 2014, , .		1
112	EFFICIENCY OF DIFFERENT RETROFITTING TECHNICHS FOR RC COLUMNS UNDER BIAXIAL LOADING: EXPERIMENTAL STUDY. , 2015, , .		1
113	EXPERIMENTAL AND NUMERICAL ANALYSIS ON THE CYCLIC BEHAVIOR OF BRIDGE PIERS WITH AND WITHOUT CFRP RETROFIT. , 2015, , .		1
114	EVALUATION OF DAMAGE IN REINFORCED CONCRETE COLUMNS UNDER BIAXIAL LOADING. , 2014, , .		1
115	Multiple fiber optic twin-sensor-array based on Michelson optical low-coherence reflectometer. , 2015, , 1009-1010.		1
116	Experimental study of the out-of-plane behaviour of masonry infill walls with and without previous in-plane damage. , 2016, , 1201-1208.		1
117	Train-bridge dynamic interaction on a stone masonry railway bridge. , 2016, , 357-357.		1
118	Experimental assessment of the components and materials of stone arch railway bridges. , 2016, , 358-358.		1
119	Structural analysis of a stone arch bridge under incremental railway static loading. IABSE Symposium Report, 2019, , .	0.0	1
120	A Novel Approach to the in situ Compression Testing of Stone Masonry Walls. RILEM Bookseries, 2019, , 741-750.	0.4	1
121	Dynamic and Quasi-static Load Tests in a Railway Stone Multispan Masonry Arch Bridge. Structural Integrity, 2020, , 516-524.	1.4	1
122	Tabique walls, a light timber structure “ constructive details and material characterization. Architecture, Structures and Construction, 2021, 1, 107-123.	1.5	1
123	Damage index model and hysteretic viscous damping of masonry infill walls subjected to out-of-plane loadings. Journal of Building Engineering, 2022, 50, 104196.	3.4	1
124	Influence of Infill Masonry Walls in the Seismic Response of Buildings: From Field Observations to Laboratory Research. Springer Natural Hazards, 2018, , 451-466.	0.3	0
125	Analysis and diagnosis of timber structures in Porto historical centre. , 2008, , 653-661.		0
126	The importance of knowledge on the vernacular heritage preservation. , 2013, , 377-382.		0

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127	EXPERIMENTAL CYCLIC TESTS OF HOLLOW PIERS WITH DIFFERENT RETROFIT STRATEGIES. , 2014, , .		0
128	NUMERICAL SEISMIC SAFETY ASSESSMENT OF RC BRIDGES WITH HOLLOW PIERS. , 2015, , .		0
129	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
130	Structural survey and diagnosis of historical constructions “ the experience of the Construction Institute. Vitruvio, 2016, 1, 49.	0.3	0
131	COST OF REPAIR AND RETROFIT OF SEISMIC DAMAGE OF RC HOLLOW-PIERS. , 2017, , .		0
132	Grillage Modeling Approach Applied to Simple-span Slab-girder Skewed Bridges for Dynamic Analysis. U Porto Journal of Engineering, 2017, 2, 53-65.	0.4	0
133	EXPERIMENTAL ASSESSMENT OF STRENGTHENING STRATEGIES AGAINST THE OUT-OF-PLANE COLLAPSE OF MASONRY INFILLS IN EXISTING RC STRUCTURES. , 2019, , .		0
134	SEISMIC ANALYSIS OF A MEXICAN VIADUCT WITH NONLINEAR MODELLING OF SOIL-STRUCTURE INTERACTION. , 2019, , .		0
135	Contributions for experimental and numerical characterization of the structural behaviour of stone arch bridges. IABSE Symposium Report, 2019, , .	0.0	0
136	Survey Methodologies and Intervention in Stone Masonry Arch Bridges: The Case Study of Esmoriz Bridge. Structural Integrity, 2020, , 901-908.	1.4	0
137	Conception and Justification of a New Test Setup for Assessment of the Fatigue Strength of Connections Between Precast Railway Bridge Girders. U Porto Journal of Engineering, 2020, 6, 22-34.	0.4	0
138	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.	3.8	0