

Gabriele Milani

List of Publications by Year in descending order

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423
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423
times ranked

2354
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogenised limit analysis of masonry walls, Part I: Failure surfaces. Computers and Structures, 2006, 84, 166-180.	2.4	288
2	Modeling Strategies for the Computational Analysis of Unreinforced Masonry Structures: Review and Classification. Archives of Computational Methods in Engineering, 2020, 27, 1153-1185.	6.0	245
3	3D non-linear behavior of masonry arch bridges. Computers and Structures, 2012, 110-111, 133-150.	2.4	163
4	Seismic assessment of historical masonry towers by means of simplified approaches and standard FEM. Construction and Building Materials, 2016, 108, 74-104.	3.2	163
5	Non-linear dynamic and static analyses on eight historical masonry towers in the North-East of Italy. Engineering Structures, 2016, 114, 241-270.	2.6	161
6	Analysis of masonry structures: review of and recent trends in homogenization techniques This article is one of a selection of papers published in this Special Issue on Masonry.. Canadian Journal of Civil Engineering, 2007, 34, 1443-1457.	0.7	158
7	Mechanical properties and numerical modeling of Fabric Reinforced Cementitious Matrix (FRCM) systems for strengthening of masonry structures. Composite Structures, 2014, 107, 711-725.	3.1	147
8	Homogenised limit analysis of masonry walls, Part II: Structural examples. Computers and Structures, 2006, 84, 181-195.	2.4	146
9	Homogenization Approach for the Limit Analysis of Out-of-Plane Loaded Masonry Walls. Journal of Structural Engineering, 2006, 132, 1650-1663.	1.7	145
10	Failure analysis of seven masonry churches severely damaged during the 2012 Emilia-Romagna (Italy) earthquake: Non-linear dynamic analyses vs conventional static approaches. Engineering Failure Analysis, 2015, 54, 13-56.	1.8	124
11	Comparative seismic vulnerability analysis on ten masonry towers in the coastal Po Valley in Italy. Engineering Structures, 2013, 49, 465-490.	2.6	121
12	Limit analysis of masonry vaults by means of curved shell finite elements and homogenization. International Journal of Solids and Structures, 2008, 45, 5258-5288.	1.3	118
13	Modelling and analysis of FRP-strengthened masonry panels. Engineering Structures, 2008, 30, 1842-1860.	2.6	117
14	Collapse of the clock tower in Finale Emilia after the May 2012 Emilia Romagna earthquake sequence: Numerical insight. Engineering Structures, 2014, 72, 70-91.	2.6	116
15	A Genetic Algorithm NURBS-based new approach for fast kinematic limit analysis of masonry vaults. Computers and Structures, 2017, 182, 187-204.	2.4	104
16	Ancient masonry arches and vaults strengthened with TRM, SRG and FRP composites: Experimental evaluation. Composite Structures, 2018, 187, 466-480.	3.1	101
17	Seismic vulnerability of historical masonry buildings: A case study in Ferrara. Engineering Structures, 2008, 30, 2223-2241.	2.6	100
18	Seismic Assessment of a Medieval Masonry Tower in Northern Italy by Limit, Nonlinear Static, and Full Dynamic Analyses. International Journal of Architectural Heritage, 2012, 6, 489-524.	1.7	98

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19	Evaluation of different approaches for the estimation of the seismic vulnerability of masonry towers. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 1511-1545.	2.3	98
20	Comparative pushover and limit analyses on seven masonry churches damaged by the 2012 Emilia-Romagna (Italy) seismic events: Possibilities of non-linear finite elements compared with pre-assigned failure mechanisms. <i>Engineering Failure Analysis</i> , 2015, 47, 129-161.	1.8	96
21	Simple homogenization model for the non-linear analysis of in-plane loaded masonry walls. <i>Computers and Structures</i> , 2011, 89, 1586-1601.	2.4	95
22	Numerical modeling of Fabric Reinforce Cementitious Matrix composites (FRCM) in tension. <i>Construction and Building Materials</i> , 2014, 70, 531-548.	3.2	95
23	Lesson learned after the Emilia-Romagna, Italy, 2012 May 2012 earthquakes: A limit analysis insight on three masonry churches. <i>Engineering Failure Analysis</i> , 2013, 34, 761-778.	1.8	85
24	3D homogenized limit analysis of masonry buildings under horizontal loads. <i>Engineering Structures</i> , 2007, 29, 3134-3148.	2.6	84
25	A Reissner-Mindlin limit analysis model for out-of-plane loaded running bond masonry walls. <i>International Journal of Solids and Structures</i> , 2007, 44, 1438-1460.	1.3	83
26	Full 3D homogenization approach to investigate the behavior of masonry arch bridges: The Venice trans-lagoon railway bridge. <i>Construction and Building Materials</i> , 2014, 66, 567-586.	3.2	75
27	Damage assessment and collapse investigation of three historical masonry palaces under seismic actions. <i>Engineering Failure Analysis</i> , 2019, 98, 10-37.	1.8	75
28	Computational Methods for Masonry Vaults: A Review of Recent Results. <i>Open Civil Engineering Journal</i> , 2014, 8, 272-287.	0.4	74
29	Comprehensive FE numerical insight into Finale Emilia Castle behavior under 2012 Emilia Romagna seismic sequence: Damage causes and seismic vulnerability mitigation hypothesis. <i>Engineering Structures</i> , 2016, 117, 397-421.	2.6	73
30	A simple meso-macro model based on SQP for the non-linear analysis of masonry double curvature structures. <i>International Journal of Solids and Structures</i> , 2012, 49, 808-834.	1.3	72
31	Mechanistic modeling of reversion phenomenon in sulphur cured natural rubber vulcanization kinetics. <i>Polymer Testing</i> , 2013, 32, 1052-1063.	2.3	72
32	Historical masonry building aggregates: advanced numerical insight for an effective seismic assessment on two row housing compounds. <i>Engineering Structures</i> , 2019, 190, 360-379.	2.6	71
33	Upper bound limit analysis model for FRP reinforced masonry curved structures. Part II: Structural analyses. <i>Computers and Structures</i> , 2009, 87, 1534-1558.	2.4	70
34	Simple lower bound limit analysis homogenization model for in- and out-of-plane loaded masonry walls. <i>Construction and Building Materials</i> , 2011, 25, 4426-4443.	3.2	70
35	Ancient masonry arches and vaults strengthened with TRM, SRG and FRP composites: Numerical analyses. <i>Composite Structures</i> , 2018, 187, 385-402.	3.1	67
36	3D upper bound limit analysis of multi-leaf masonry walls. <i>International Journal of Mechanical Sciences</i> , 2008, 50, 817-836.	3.6	63

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37	A fast modeling approach for numerical analysis of unreinforced and FRCM reinforced masonry walls under out-of-plane loading. <i>Composites Part B: Engineering</i> , 2020, 180, 107553.	5.9	62
38	A numerical insight into the response of masonry reinforced by FRP strips. The case of perfect adhesion. <i>Composite Structures</i> , 2010, 92, 2345-2357.	3.1	61
39	Simplified out-of-plane modelling of three-leaf masonry walls accounting for the material texture. <i>Construction and Building Materials</i> , 2013, 40, 330-351.	3.2	60
40	Assessment of curved FRP-reinforced masonry prisms: Experiments and modeling. <i>Construction and Building Materials</i> , 2014, 51, 492-505.	3.2	60
41	Collapse behavior of masonry domes under seismic loads: An adaptive NURBS kinematic limit analysis approach. <i>Engineering Structures</i> , 2019, 200, 109517.	2.6	60
42	Model Updating of Historical Belfries Based on OMA Identification Techniques. <i>International Journal of Architectural Heritage</i> , 2021, 15, 132-156.	1.7	60
43	Damage assessment and partial failure mechanisms activation of historical masonry churches under seismic actions: Three case studies in Mantua. <i>Engineering Failure Analysis</i> , 2018, 92, 495-519.	1.8	58
44	Masonry behaviour and modelling. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014, , 1-26.	0.3	58
45	A simplified homogenization-discrete element model for the non-linear static analysis of masonry walls out-of-plane loaded. <i>Engineering Structures</i> , 2010, 32, 2352-2366.	2.6	57
46	A simplified homogenized limit analysis model for randomly assembled blocks out-of-plane loaded. <i>Computers and Structures</i> , 2010, 88, 690-717.	2.4	57
47	Discontinuous approaches for nonlinear dynamic analyses of an ancient masonry tower. <i>Engineering Structures</i> , 2021, 230, 111626.	2.6	57
48	Seismic vulnerability of Italian masonry churches: The case of the Nativity of Blessed Virgin Mary in Stellata of Bondeno. <i>Journal of Building Engineering</i> , 2018, 20, 179-200.	1.6	55
49	Earthquake-induced damage assessment and partial failure mechanisms of an Italian Medieval castle. <i>Engineering Failure Analysis</i> , 2019, 99, 292-309.	1.8	55
50	Three-dimensional effects induced by FRP-from-masonry delamination. <i>Composite Structures</i> , 2011, 93, 1819-1831.	3.1	53
51	Seismic risk assessment of a 50m high masonry chimney using advanced analysis techniques. <i>Engineering Structures</i> , 2014, 69, 255-270.	2.6	53
52	Interface modeling approach for the study of the bond behavior of FRCM strengthening systems. <i>Composites Part B: Engineering</i> , 2018, 141, 221-233.	5.9	53
53	Upper bound sequential linear programming mesh adaptation scheme for collapse analysis of masonry vaults. <i>Advances in Engineering Software</i> , 2015, 79, 91-110.	1.8	52
54	Assessment of bonding stresses between FRP sheets and masonry pillars during delamination tests. <i>Composites Part B: Engineering</i> , 2012, 43, 1999-2011.	5.9	51

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55	Genetic algorithm for the optimization of rubber insulated high voltage power cables production lines. <i>Computers and Chemical Engineering</i> , 2008, 32, 3198-3212.	2.0	50
56	A kinematic FE limit analysis model for thick English bond masonry walls. <i>International Journal of Solids and Structures</i> , 2008, 45, 1302-1331.	1.3	50
57	A kinematic limit analysis approach for seismic retrofitting of masonry towers through steel tie-rods. <i>Engineering Structures</i> , 2018, 160, 212-228.	2.6	50
58	UB-ALMANAC: An adaptive limit analysis NURBS-based program for the automatic assessment of partial failure mechanisms in masonry churches. <i>Engineering Failure Analysis</i> , 2018, 85, 201-220.	1.8	50
59	Advanced numerical insights into failure analysis and strengthening of monumental masonry churches under seismic actions. <i>Engineering Failure Analysis</i> , 2019, 103, 410-430.	1.8	50
60	Validation of Analytical Multiparameter Homogenization Models for Out-of-Plane Loaded Masonry Walls by Means of the Finite Element Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 185-198.	1.6	49
61	Upper Bound limit analysis model for FRP-reinforced masonry curved structures. Part I: Unreinforced masonry failure surfaces. <i>Computers and Structures</i> , 2009, 87, 1516-1533.	2.4	49
62	Upper bound limit analysis of meso-mechanical spandrel models for the pushover analysis of 2D masonry frames. <i>Engineering Structures</i> , 2009, 31, 2696-2710.	2.6	49
63	Tilting plane tests on a small-scale masonry cross vault: Experimental results and numerical simulations through a heterogeneous approach. <i>Engineering Structures</i> , 2016, 123, 300-312.	2.6	48
64	Automatic fragility curve evaluation of masonry churches accounting for partial collapses by means of 3D FE homogenized limit analysis. <i>Computers and Structures</i> , 2011, 89, 1628-1648.	2.4	47
65	Possibilities and limitations of innovative retrofitting for masonry churches: Advanced computations on three case studies. <i>Construction and Building Materials</i> , 2017, 147, 239-263.	3.2	47
66	Effects of Geometrical Features on the Seismic Response of Historical Masonry Towers. <i>Journal of Earthquake Engineering</i> , 2018, 22, 2-34.	1.4	47
67	Single lap shear tests of masonry curved pillars externally strengthened by CFRP strips. <i>Composite Structures</i> , 2018, 200, 434-448.	3.1	46
68	Advanced numerical strategies for seismic assessment of historical masonry aggregates. <i>Engineering Structures</i> , 2020, 212, 110441.	2.6	46
69	Internet of Things (IoT) for masonry structural health monitoring (SHM): Overview and examples of innovative systems. <i>Construction and Building Materials</i> , 2021, 290, 123092.	3.2	46
70	The narthex of the Church of the Nativity in Bethlehem: A non-linear finite element approach to predict the structural damage. <i>Computers and Structures</i> , 2018, 207, 3-18.	2.4	45
71	Homogenized limit analysis of FRP-reinforced masonry walls out-of-plane loaded. <i>Computational Mechanics</i> , 2009, 43, 617-639.	2.2	44
72	Implementation and validation of a total displacement non-linear homogenization approach for in-plane loaded masonry. <i>Computers and Structures</i> , 2016, 176, 13-33.	2.4	44

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73	Role of inclination in the seismic vulnerability of bell towers: FE models and simplified approaches. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1707-1737.	2.3	44
74	Seismic response and damage patterns of masonry churches: Seven case studies in Ferrara, Italy. <i>Engineering Structures</i> , 2018, 177, 809-835.	2.6	44
75	A three-€function numerical model for the prediction of vulcanization-€reversion of rubber during sulfur curing. <i>Journal of Applied Polymer Science</i> , 2011, 119, 419-437.	1.3	43
76	Simple holonomic homogenization model for the non-linear static analysis of in-plane loaded masonry walls strengthened with FRCM composites. <i>Composite Structures</i> , 2016, 158, 291-307.	3.1	43
77	Rigid block and spring homogenized model (HRBSM) for masonry subjected to impact and blast loading. <i>International Journal of Impact Engineering</i> , 2017, 109, 14-28.	2.4	43
78	A fast and general upper-bound limit analysis approach for out-of-plane loaded masonry walls. <i>Meccanica</i> , 2018, 53, 1875-1898.	1.2	43
79	Micro-mechanical FE numerical model for masonry curved pillars reinforced with FRP strips subjected to single lap shear tests. <i>Composite Structures</i> , 2018, 201, 916-931.	3.1	43
80	Base seismic isolation of a historical masonry church using fiber reinforced elastomeric isolators. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 120, 127-145.	1.9	43
81	Advanced non-linear numerical modeling of masonry groin vaults of major historical importance: St John Hospital case study in Jerusalem. <i>Engineering Structures</i> , 2019, 194, 458-476.	2.6	42
82	Collapse analysis of the Clock and Fortified towers of Finale Emilia, Italy, after the 2012 Emilia Romagna seismic sequence: Lesson learned and reconstruction hypotheses. <i>Construction and Building Materials</i> , 2016, 115, 193-213.	3.2	41
83	Modeling of FRP-strengthened curved masonry specimens and proposal of a simple design formula. <i>Composite Structures</i> , 2016, 158, 281-290.	3.1	41
84	Two-step advanced numerical approach for the design of low-cost unbonded fiber reinforced elastomeric seismic isolation systems in new masonry buildings. <i>Engineering Failure Analysis</i> , 2018, 90, 380-396.	1.8	41
85	Effectiveness of different base isolation systems for seismic protection: Numerical insights into an existing masonry bell tower. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 125, 105752.	1.9	41
86	Hybrid seismic base isolation of a historical masonry church using unbonded fiber reinforced elastomeric isolators and shape memory alloy wires. <i>Engineering Structures</i> , 2019, 196, 109281.	2.6	41
87	Alternative retrofitting strategies to prevent the failure of an under-designed reinforced concrete frame. <i>Engineering Failure Analysis</i> , 2018, 89, 271-285.	1.8	40
88	Monte Carlo homogenized limit analysis model for randomly assembled blocks in-plane loaded. <i>Computational Mechanics</i> , 2010, 46, 827-849.	2.2	39
89	Simple SQP approach for out-of-plane loaded homogenized brickwork panels, accounting for softening. <i>Computers and Structures</i> , 2011, 89, 201-215.	2.4	39
90	Damage survey, simplified assessment, and advanced seismic analyses of two masonry churches after the 2012 Emilia earthquake. <i>International Journal of Architectural Heritage</i> , 2019, 13, 901-924.	1.7	39

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91	Homogenized rigid-plastic model for masonry walls subjected to impact. <i>International Journal of Solids and Structures</i> , 2009, 46, 4133-4149.	1.3	38
92	ANUB-Aggregates: a fully automatic NURBS-based software for advanced local failure analyses of historical masonry aggregates. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 3935-3961.	2.3	38
93	Nonlinear Discrete Homogenized Model for Out-of-Plane Loaded Masonry Walls. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	37
94	Stability analysis of leaning historic masonry structures. <i>Automation in Construction</i> , 2018, 92, 199-213.	4.8	37
95	Masonry structures in the presence of foundation settlements and unilateral contact problems. <i>International Journal of Solids and Structures</i> , 2020, 191-192, 187-201.	1.3	37
96	Advanced Seismic Assessment of Four Masonry Bell Towers in Italy after Operational Modal Analysis (OMA) Identification. <i>International Journal of Architectural Heritage</i> , 2021, 15, 157-186.	1.7	37
97	Nonlinear modeling of the seismic response of masonry structures: critical review and open issues towards engineering practice. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 1939-1997.	2.3	37
98	Characterization of the response of quasi-periodic masonry: Geometrical investigation, homogenization and application to the Guimarães castle, Portugal. <i>Engineering Structures</i> , 2013, 56, 621-641.	2.6	36
99	A discontinuous quasi-upper bound limit analysis approach with sequential linear programming mesh adaptation. <i>International Journal of Mechanical Sciences</i> , 2009, 51, 89-104.	3.6	35
100	Iconic crumbling of the clock tower in Amatrice after 2016 central Italy seismic sequence: advanced numerical insight. <i>Procedia Structural Integrity</i> , 2018, 11, 314-321.	0.3	35
101	Dynamic Behavior of an Inclined Existing Masonry Tower in Italy. <i>Frontiers in Built Environment</i> , 2019, 5, .	1.2	35
102	Comprehensive numerical approaches for the design and safety assessment of masonry buildings retrofitted with steel bands in developing countries: The case of India. <i>Construction and Building Materials</i> , 2015, 85, 227-246.	3.2	34
103	Homogenization towards a mechanistic Rigid Body and Spring Model (HRBSM) for the non-linear dynamic analysis of 3D masonry structures. <i>Meccanica</i> , 2018, 53, 1819-1855.	1.2	34
104	Seismic Behavior of the San Pietro di Coppito Church Bell Tower in L'Aquila, Italy. <i>Open Civil Engineering Journal</i> , 2012, 6, 131-147.	0.4	34
105	In-plane failure surfaces for masonry with joints of finite thickness estimated by a Method of Cells-type approach. <i>Computers and Structures</i> , 2015, 150, 34-51.	2.4	33
106	Fast and reliable non-linear heterogeneous FE approach for the analysis of FRP-reinforced masonry arches. <i>Composites Part B: Engineering</i> , 2016, 88, 189-200.	5.9	32
107	Advanced numerical analyses by the Non-Smooth Contact Dynamics method of an ancient masonry bell tower. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 7706-7725.	1.2	32
108	Design of the optimal fiber-reinforcement for masonry structures via topology optimization. <i>International Journal of Solids and Structures</i> , 2013, 50, 2087-2106.	1.3	31

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109	Derivation of the out-of-plane behaviour of masonry through homogenization strategies: Micro-scale level. <i>Computers and Structures</i> , 2018, 209, 30-43.	2.4	31
110	Heterogeneous upper-bound finite element limit analysis of masonry walls out-of-plane loaded. <i>Computational Mechanics</i> , 2007, 40, 911-931.	2.2	30
111	Crack Patterns Induced by Foundation Settlements: Integrated Analysis on a Renaissance Masonry Palace in Italy. <i>International Journal of Architectural Heritage</i> , 2015, 9, 111-129.	1.7	30
112	Efficient meta-heuristic mesh adaptation strategies for NURBS upper-bound limit analysis of curved three-dimensional masonry structures. <i>Computers and Structures</i> , 2020, 236, 106271.	2.4	30
113	The effect of ground motion vertical component on the seismic response of historical masonry buildings: The case study of the Banloc Castle in Romania. <i>Engineering Structures</i> , 2021, 249, 113346.	2.6	30
114	COMPREHENSIVE NUMERICAL MODEL FOR THE INTERPRETATION OF CROSS-LINKING WITH PEROXIDES AND SULFUR: CHEMICAL MECHANISMS AND OPTIMAL VULCANIZATION OF REAL ITEMS. <i>Rubber Chemistry and Technology</i> , 2012, 85, 590-628.	0.6	29
115	Simple kinetic numerical model based on rheometer data for ethylene-propylene diene monomer accelerated sulfur crosslinking. <i>Journal of Applied Polymer Science</i> , 2012, 124, 311-324.	1.3	29
116	Fast and reliable meta-data model for the mechanistic analysis of NR vulcanized with sulphur. <i>Polymer Testing</i> , 2014, 33, 64-78.	2.3	29
117	Pushover analysis of large scale unreinforced masonry structures by means of a fully 2D non-linear model. <i>Construction and Building Materials</i> , 2013, 41, 276-295.	3.2	28
118	Advanced numerical models for the analysis of masonry cross vaults: A case-study in Italy. <i>Engineering Structures</i> , 2014, 76, 339-358.	2.6	28
119	Modal pushover and response history analyses of a masonry chimney before and after shortening. <i>Engineering Structures</i> , 2016, 110, 307-324.	2.6	28
120	A parametric investigation on the seismic capacity of masonry cross vaults. <i>Engineering Structures</i> , 2017, 148, 686-703.	2.6	28
121	A Genetic Algorithm adaptive homogeneous approach for evaluating settlement-induced cracks in masonry walls. <i>Engineering Structures</i> , 2020, 221, 111073.	2.6	28
122	Homogenized limit analysis of masonry structures with random input properties: polynomial Response Surface approximation and Monte Carlo simulations. <i>Structural Engineering and Mechanics</i> , 2010, 34, 417-447.	1.0	28
123	Quasi-analytical homogenization approach for the non-linear analysis of in-plane loaded masonry panels. <i>Construction and Building Materials</i> , 2017, 146, 723-743.	3.2	27
124	Coupled interface-based modelling approach for the numerical analysis of curved masonry specimens strengthened by CFRP. <i>Composite Structures</i> , 2018, 200, 498-506.	3.1	27
125	Seismic capacity and multi-mechanism analysis for dry-stack masonry arches subjected to hinge control. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 673-724.	2.3	27
126	Failure analysis of a Portuguese cultural heritage masterpiece: Bonet building in Sintra. <i>Engineering Failure Analysis</i> , 2020, 115, 104636.	1.8	27

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127	FE vs. DE Modeling for the Nonlinear Dynamics of a Historic Church in Central Italy. Geosciences (Switzerland), 2021, 11, 189.	1.0	27
128	In-plane loaded CFRP reinforced masonry walls: mechanical characteristics by homogenisation procedures. Composites Science and Technology, 2004, 64, 2097-2112.	3.8	26
129	3D FE limit analysis model for multi-layer masonry structures reinforced with FRP strips. International Journal of Mechanical Sciences, 2010, 52, 784-803.	3.6	26
130	Safety Assessment of Four Masonry Churches by a Plate and Shell FE Nonlinear Approach. Journal of Performance of Constructed Facilities, 2013, 27, 27-42.	1.0	26
131	A closed form solution for the vulcanization prediction of NR cured with sulphur and different accelerators. Journal of Mathematical Chemistry, 2015, 53, 975-997.	0.7	26
132	Dynamic behaviour of ancient freestanding multi-drum and monolithic columns subjected to horizontal and vertical excitations. Soil Dynamics and Earthquake Engineering, 2019, 120, 39-57.	1.9	26
133	Numerical simulation of the tensile behavior of FRCM strengthening systems. Composites Part B: Engineering, 2020, 189, 107886.	5.9	26
134	Simple numerical model with second order effects for out-of-plane loaded masonry walls. Engineering Structures, 2013, 48, 98-120.	2.6	25
135	Simple Homogenized Model for the Nonlinear Analysis of FRP-Strengthened Masonry Structures. II: Structural Applications. Journal of Engineering Mechanics - ASCE, 2013, 139, 77-93.	1.6	25
136	Kinematic collapse load calculator: Circular arches. SoftwareX, 2018, 7, 174-179.	1.2	25
137	Curved masonry pillars reinforced with anchored CFRP sheets: An experimental analysis. Composites Part B: Engineering, 2019, 174, 107008.	5.9	25
138	2D pixel homogenized limit analysis of non-periodic masonry walls. Computers and Structures, 2019, 219, 16-57.	2.4	25
139	A vulnerability index based-approach for the historical centre of the city of Latronico (Potenza, Italy). Journal of Bridge Engineering, 2019, 24, 05019001.	1.8	25
140	A numerical and experimental analysis of unbonded brickwork panels laterally loaded. Construction and Building Materials, 2009, 23, 2093-2106.	3.2	24
141	Optimal vulcanization of 2D and 3D EPM/EPDM thick elements through peroxidic mixtures. Journal of Mathematical Chemistry, 2010, 47, 229-267.	0.7	24
142	A new simple numerical model based on experimental scorch curve data fitting for the interpretation of sulphur vulcanization. Journal of Mathematical Chemistry, 2010, 48, 530-557.	0.7	24
143	Seismic vulnerability evaluation of historical masonry churches: Proposal for a general and comprehensive numerical approach to cross-check results. Engineering Failure Analysis, 2017, 82, 208-228.	1.8	24
144	Three-dimensional discrete element modelling of rubble masonry structures from dense point clouds. Automation in Construction, 2020, 119, 103365.	4.8	24

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145	Crumbling of Amatrice clock tower during 2016 Central Italy seismic sequence: Advanced numerical insights. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 313-335.	0.5	24
146	Approximate limit analysis of full scale FRP-reinforced masonry buildings through a 3D homogenized FE package. <i>Composite Structures</i> , 2010, 92, 918-935.	3.1	23
147	Limit analysis of transversally loaded masonry walls using an innovative macroscopic strength criterion. <i>International Journal of Solids and Structures</i> , 2016, 81, 274-293.	1.3	23
148	Implementation of a simple novel Abaqus user element to predict the behavior of unbonded fiber reinforced elastomeric isolators in macro-scale computations. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 2741-2766.	2.3	23
149	Compatible model for herringbone bond masonry: Linear elastic homogenization, failure surfaces and structural implementation. <i>International Journal of Solids and Structures</i> , 2013, 50, 3274-3296.	1.3	22
150	Fast Vulnerability Evaluation of Masonry Towers by Means of an Interactive and Adaptive 3D Kinematic Limit Analysis with Pre-assigned Failure Mechanisms. <i>International Journal of Architectural Heritage</i> , 2019, 13, 941-962.	1.7	22
151	Experimental and numerical analyses of unreinforced masonry wall components and building. <i>Construction and Building Materials</i> , 2020, 257, 119599.	3.2	22
152	Homogenized and Heterogeneous Limit Analysis Model for Pushover Analysis of Ancient Masonry Walls with Irregular Texture. <i>International Journal of Architectural Heritage</i> , 2013, 7, 303-338.	1.7	21
153	Causes of damage to industrial brick masonry chimneys. <i>Engineering Failure Analysis</i> , 2017, 74, 188-201.	1.8	21
154	Development of an interface numerical model for C-FRPs applied on flat and curved masonry pillars. <i>Composite Structures</i> , 2020, 241, 112074.	3.1	21
155	Influence of Stereotomy on Discrete Approaches Applied to an Ancient Church in Muccia, Italy. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	21
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