

Francesco Clementi

List of Publications by Year in descending order

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95
papers

2,025
citations

218677

26
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276875

41
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97
all docs

97
docs citations

97
times ranked

1054
citing authors

#	ARTICLE	IF	CITATIONS
1	Uses and limits of the Equivalent Frame Model on existing unreinforced masonry buildings for assessing their seismic risk: A review. <i>Journal of Building Engineering</i> , 2017, 10, 166-182.	3.4	133
2	Assessment of seismic behaviour of heritage masonry buildings using numerical modelling. <i>Journal of Building Engineering</i> , 2016, 8, 29-47.	3.4	128
3	Numerical model upgrading of a historical masonry building damaged during the 2016 Italian earthquakes: the case study of the PodestÀ palace in Montelupone (Italy). <i>Journal of Civil Structural Health Monitoring</i> , 2017, 7, 703-717.	3.9	97
4	Seismic performance of precast reinforced concrete buildings with dowel pin connections. <i>Journal of Building Engineering</i> , 2016, 7, 224-238.	3.4	64
5	Comparative fragility methods for seismic assessment of masonry buildings located in Muccia (Italy). <i>Journal of Building Engineering</i> , 2019, 25, 100813.	3.4	63
6	Seismic Assessment of a Monumental Building through Nonlinear Analyses of a 3D Solid Model. <i>Journal of Earthquake Engineering</i> , 2018, 22, 35-61.	2.5	62
7	Model Updating of Historical Belfries Based on OMA Identification Techniques. <i>International Journal of Architectural Heritage</i> , 2021, 15, 132-156.	3.1	60
8	Damage assessment of ancient masonry churches stroked by the Central Italy earthquakes of 2016 by the non-smooth contact dynamics method. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 455-486.	4.1	59
9	Discontinuous approaches for nonlinear dynamic analyses of an ancient masonry tower. <i>Engineering Structures</i> , 2021, 230, 111626.	5.3	57
10	Numerical model upgrading of a historical masonry palace monitored with a wireless sensor network. <i>International Journal of Masonry Research and Innovation</i> , 2016, 1, 74.	0.4	53
11	Post-World War II Italian school buildings: typical and specific seismic vulnerabilities. <i>Journal of Building Engineering</i> , 2015, 4, 152-166.	3.4	46
12	Cultural Heritage and Earthquake: The Case Study of "Santa Maria Della Carità" in Ascoli Piceno. <i>Open Civil Engineering Journal</i> , 2017, 11, 1079-1105.	0.8	44
13	A comprehensive analysis of hardening/softening behaviour of shearable planar beams with whatever axial boundary constraint. <i>Meccanica</i> , 2016, 51, 2589-2606.	2.0	42
14	A Genetic Algorithm Procedure for the Automatic Updating of FEM Based on Ambient Vibration Tests. <i>Sensors</i> , 2020, 20, 3315.	3.8	41
15	Simple formulas for the natural frequencies of non-uniform cables and beams. <i>International Journal of Mechanical Sciences</i> , 2013, 77, 155-163.	6.7	38
16	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.	3.1	37
17	Modal-based FE model updating via genetic algorithms: Exploiting artificial intelligence to build realistic numerical models of historical structures. <i>Construction and Building Materials</i> , 2021, 303, 124393.	7.2	37
18	Effects of shear stiffness, rotatory and axial inertia, and interface stiffness on free vibrations of a two-layer beam. <i>Journal of Sound and Vibration</i> , 2012, 331, 5247-5267.	3.9	35

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19	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.	0.8	35
20	Dynamic Behavior of an Inclined Existing Masonry Tower in Italy. <i>Frontiers in Built Environment</i> , 2019, 5, .	2.3	35
21	Damage Assessment by Numerical Modeling of Sant'Agostino's Sanctuary in Offida During the Central Italy 2016–2017 Seismic Sequence. <i>Frontiers in Built Environment</i> , 2019, 4, .	2.3	35
22	Experimental determination of the fracture properties of unfired dry earth. <i>Engineering Fracture Mechanics</i> , 2012, 87, 62-72.	4.3	34
23	Tracking modal parameters evolution of a school building during retrofitting works. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 1029-1052.	4.1	33
24	Damage detection in a precast structure subjected to an earthquake: A numerical approach. <i>Engineering Structures</i> , 2016, 127, 447-458.	5.3	32
25	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.	2.3	32
26	Failure Analysis of Apennine Masonry Churches Severely Damaged during the 2016 Central Italy Seismic Sequence. <i>Buildings</i> , 2021, 11, 58.	3.1	29
27	FE vs. DE Modeling for the Nonlinear Dynamics of a Historic Church in Central Italy. <i>Geosciences (Switzerland)</i> , 2021, 11, 189.	2.2	27
28	On the experimental determination of dynamical properties of laminated glass. <i>Annals of Solid and Structural Mechanics</i> , 2015, 7, 27-43.	0.5	26
29	Nonlinear free dynamics of a two-layer composite beam with different boundary conditions. <i>Meccanica</i> , 2015, 50, 675-688.	2.0	26
30	Flood impact on masonry buildings: The effect of flow characteristics and incidence angle. <i>Journal of Fluids and Structures</i> , 2019, 88, 48-70.	3.4	26
31	Effectiveness of textile reinforced mortar (TRM) materials in preventing seismic-induced damage in a U-shaped masonry structure submitted to pseudo-dynamic excitations. <i>Construction and Building Materials</i> , 2020, 248, 118532.	7.2	26
32	Expeditious damage index for arched structures based on dynamic identification testing. <i>Construction and Building Materials</i> , 2020, 265, 120236.	7.2	25
33	Longitudinal–transversal internal resonances in Timoshenko beams with an axial elastic boundary condition. <i>Nonlinear Dynamics</i> , 2021, 103, 3489-3513.	5.2	25
34	Comparing Nonlinear Free Vibrations of Timoshenko Beams with Mechanical or Geometric Curvature Definition. <i>Procedia IUTAM</i> , 2017, 20, 34-41.	1.2	24
35	1:1 internal resonance in a two d.o.f. complete system: a comprehensive analysis and its possible exploitation for design. <i>Meccanica</i> , 2020, 55, 1309-1332.	2.0	24
36	Crumbling of Amatrice clock tower during 2016 Central Italy seismic sequence: Advanced numerical insights. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 313-335.	0.9	24

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37	Nonlinear vibrations of non-uniform beams by the MTS asymptotic expansion method. <i>Continuum Mechanics and Thermodynamics</i> , 2015, 27, 703-717.	2.2	23
38	Fracture Characteristics of Unfired Earth. <i>International Journal of Fracture</i> , 2008, 149, 193-198.	2.2	22
39	Influence of Stereotomy on Discrete Approaches Applied to an Ancient Church in Muccia, Italy. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	21
40	Dry Masonry Strenghtening through Basalt Fibre Ropes: Experimental Results against Out-of-Plane Actions. <i>Key Engineering Materials</i> , 0, 624, 584-594.	0.4	20
41	An Experimental Study On Damage Evolution of Unfired Dry Earth Under Compression. <i>International Journal of Fracture</i> , 2011, 172, 193-200.	2.2	19
42	Static and dynamic testing of highway bridges: a best practice example. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 43-56.	3.9	17
43	Seismic behavior of an Italian Renaissance Sanctuary: Damage assessment by numerical modelling. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	15
44	Modal parameters identification with environmental tests and advanced numerical analyses for masonry bell towers: a meaningful case study. <i>Procedia Structural Integrity</i> , 2018, 11, 306-313.	0.8	15
45	Structural Health Monitoring of Architectural Heritage: From the past to the Future Advances. <i>International Journal of Architectural Heritage</i> , 2021, 15, 1-4.	3.1	15
46	The Influence of Dowel-Pin Connections on the Seismic Fragility Assessment of RC Precast Industrial Buildings. <i>Open Civil Engineering Journal</i> , 2017, 11, 1138-1157.	0.8	15
47	Experimental assessment of concrete compressive strength in old existing RC buildings: A possible way to reduce the dispersion of DT results. <i>Journal of Building Engineering</i> , 2016, 8, 162-171.	3.4	14
48	Cross-checking asymptotics and numerics in the hardening/softening behaviour of Timoshenko beams with axial end spring and variable slenderness. <i>Archive of Applied Mechanics</i> , 2017, 87, 865-880.	2.2	14
49	Aftershock fragility assessment of Italian castâ€“inâ€“place RC industrial structures with precast vaults. <i>Journal of Building Engineering</i> , 2020, 29, 101206.	3.4	14
50	Simple Mechanical Model of Curved Beams by a 3D Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 597-613.	2.9	13
51	One-year monitoring of a reinforced concrete school building: Evolution of dynamic behavior during retrofitting works. <i>Procedia Engineering</i> , 2017, 199, 2238-2243.	1.2	13
52	Mechanical characterization of â€œScaglia Rossaâ€“stone masonry through experimental and numerical analyses. <i>Construction and Building Materials</i> , 2021, 303, 124572.	7.2	13
53	Identification and calibration of the structural model of historical masonry building damaged during the 2016 Italian earthquakes: The case study of Palazzo del PodestA in Montelupone. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	11
54	An experimental and numerical study on the in-plane axial and shear behavior of sprayed in-situ concrete sandwich panels. <i>Engineering Structures</i> , 2021, 232, 111814.	5.3	11

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55	Influence of Local Site Effects on the Typological Fragility Curves for Class-Oriented Masonry Buildings in Aggregate Condition. <i>Open Civil Engineering Journal</i> , 2021, 15, 149-164.	0.8	10
56	Vibration-Based SHM of Ordinary Buildings: Detection and Quantification of Structural Damage. , 2015, , .		8
57	Influence of the Shear-Bending Interaction on the Global Capacity of Reinforced Concrete Frames. <i>Advances in Civil and Industrial Engineering Book Series</i> , 0, , 84-111.	0.2	8
58	Preliminary study of the influence of different modelling choices and materials properties uncertainties on the seismic assessment of an existing RC school building. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	7
59	Global analyses of historical masonry buildings: Equivalent frame vs. 3D solid models. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	7
60	The non-smooth contact dynamics method for the analysis of an ancient masonry tower. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
61	SEISMIC ASSESSMENT OF CULTURAL HERITAGE: NONLINEAR 3D ANALYSES OF "SANTA MARIA DELLA CARITÀ" IN ASCOLI PICENO. , 2017, , .		7
62	Application of a Non-Invasive Technique for the Preservation of a Fortified Masonry Tower. <i>Infrastructures</i> , 2022, 7, 30.	2.8	7
63	Tracking Modal Parameter Evolution of Different Cultural Heritage Structure Damaged by Central Italy Earthquake of 2016. <i>Key Engineering Materials</i> , 0, 817, 334-341.	0.4	6
64	Unreinforced and TRM-Reinforced Masonry Building Subjected to Pseudodynamic Excitations: Numerical and Experimental Insights. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	6
65	Advanced Seismic Analyses of "Apennine Churches" Struck by the Central Italy Earthquakes of 2016 by the Non-Smooth Contact Dynamics Method. <i>Key Engineering Materials</i> , 0, 817, 309-316.	0.4	5
66	Flexural wave propagation in infinite beams on a unilateral elastic foundation. <i>Nonlinear Dynamics</i> , 2020, 99, 721-735.	5.2	5
67	Nonlinear analyses and failure patterns of typical masonry school buildings in the epicentral zone of the 2016 Italian earthquakes. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
68	Monitoring cultural heritage buildings: The San Ciriaco bell-tower in Ancona. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
69	Axial-transversal coupling in the nonlinear dynamics of a beam with an inclined roller. <i>International Journal of Mechanical Sciences</i> , 2018, 144, 490-501.	6.7	4
70	On Flexural Vibrations of Shear Deformable Laminated Beams. , 2012, , .		3
71	Reply to the Discussion on "A comprehensive analysis of hardening/softening behavior of shearable planar beams with whatever axial boundary constraint"™, by D. Genovese. <i>Meccanica</i> , 2017, 52, 3005-3008.	2.0	3
72	Revealing nonlinear dynamical behaviour of laminated glass. <i>Procedia Engineering</i> , 2017, 199, 1454-1459.	1.2	3

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73	FROM TLS TO FE ANALYSIS: POINTS CLOUD EXPLOITATION FOR STRUCTURAL BEHAVIOUR DEFINITION. THE SAN CIRIACO'S BELL TOWER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 957-964.	0.2	3
74	Vulnerability reduction of existing buildings and design of new structures in seismic area. AIP Conference Proceedings, 2017, , .	0.4	2
75	Seismic assessment of existing precast concrete buildings: Influence of deformable connections. AIP Conference Proceedings, 2017, , .	0.4	2
76	Damage Assessment of San Francesco Church in Amandola Hit by Central Italy 2016-2017 Seismic Event. Key Engineering Materials, 2019, 817, 627-633.	0.4	2
77	On the nonlinear behaviour of unfired dry earth. AIP Conference Proceedings, 2019, , .	0.4	2
78	The Non-smooth Dynamics of Multiple Leaf Masonry Walls of the Arquata Del Tronto Fortress. Lecture Notes in Mechanical Engineering, 2020, , 1798-1807.	0.4	2
79	Influence of FE Modelling Approaches on Vulnerabilities of RC School Buildings and Proposal of a CFRP Retrofitting Intervention. Open Construction and Building Technology Journal, 2019, 13, 269-287.	0.7	2
80	Dynamic Parameters Identification of Structural Laminated Glass. , 2015, , .		1
81	Numerical modeling, experimentation and design practice for masonry structures in seismic prone areas. AIP Conference Proceedings, 2017, , .	0.4	1
82	Mechanical characterization of unfired earth via numerical assessment of the experimental data. AIP Conference Proceedings, 2019, , .	0.4	1
83	Damage assessment by the non-smooth contact dynamics method of the iconic crumbling of the clock tower in Amatrice after the 2016 Central Italy seismic sequence. AIP Conference Proceedings, 2019, , .	0.4	1
84	Evaluation of different approaches for the seismic vulnerability assessment of RC structures. AIP Conference Proceedings, 2019, , .	0.4	1
85	Existing and new structures in seismic prone areas: Advanced numerical modelling and experimentation. AIP Conference Proceedings, 2018, , .	0.4	0
86	Open challenges towards a seismic protection of new and existing buildings. AIP Conference Proceedings, 2019, , .	0.4	0
87	Design, analysis and retrofitting of civil structures and infrastructures in Seismic Prone Areas. AIP Conference Proceedings, 2019, , .	0.4	0
88	Open Challenges in Seismic Design of New Structures and Vulnerability Reduction of Existing Buildings. Open Civil Engineering Journal, 2017, 11, 1024-1025.	0.8	0
89	THE NON-SMOOTH STORY OF DIFFERENT MASONRY TOWERS DAMAGED BY THE CENTRAL ITALY SEISMIC SEQUENCE OF 2016. , 2019, , .		0
90	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0

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91	DAMAGE SURVEY AND ADVANCED SEISMIC ANALYSES OF DIFFERENT MASONRY CHURCHES AFTER THE CENTRAL ITALY EARTHQUAKE OF 2016. , 2019, , .		0
92	Advanced seismic analyses of "Apennine Churches" stroked by the Central Italy earthquakes of 2016 by the non-smooth contact dynamics method. AIP Conference Proceedings, 2020, , .	0.4	0
93	Damage assessment of San Francesco Church in Amandola hit by Central Italy 2016-2017 seismic event. AIP Conference Proceedings, 2020, , .	0.4	0
94	Tracking modal parameter evolution of different cultural heritage structures damaged by Central Italy earthquake of 2016. AIP Conference Proceedings, 2020, , .	0.4	0
95	Seismic assessment of a masonry structure damaged by central Italy earthquake. AIP Conference Proceedings, 2022, , .	0.4	0