

# Francesco Clementi

## List of Publications by Year in descending order

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95  
papers

2,025  
citations

249298

26  
h-index

312153

41  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic assessment of a masonry structure damaged by central Italy earthquake. AIP Conference Proceedings, 2022, , .	0.3	0
2	Application of a Non-Invasive Technique for the Preservation of a Fortified Masonry Tower. Infrastructures, 2022, 7, 30.	1.4	7
3	Model Updating of Historical Belfries Based on Oma Identification Techniques. International Journal of Architectural Heritage, 2021, 15, 132-156.	1.7	60
4	Longitudinalâ€“transversal internal resonances in Timoshenko beams with an axial elastic boundary condition. Nonlinear Dynamics, 2021, 103, 3489-3513.	2.7	25
5	Advanced Seismic Assessment of Four Masonry Bell Towers in Italy after Operational Modal Analysis (OMA) Identification. International Journal of Architectural Heritage, 2021, 15, 157-186.	1.7	37
6	Structural Health Monitoring of Architectural Heritage: From the past to the Future Advances. International Journal of Architectural Heritage, 2021, 15, 1-4.	1.7	15
7	Failure Analysis of Apennine Masonry Churches Severely Damaged during the 2016 Central Italy Seismic Sequence. Buildings, 2021, 11, 58.	1.4	29
8	Discontinuous approaches for nonlinear dynamic analyses of an ancient masonry tower. Engineering Structures, 2021, 230, 111626.	2.6	57
9	FE vs. DE Modeling for the Nonlinear Dynamics of a Historic Church in Central Italy. Geosciences (Switzerland), 2021, 11, 189.	1.0	27
10	An experimental and numerical study on the in-plane axial and shear behavior of sprayed in-situ concrete sandwich panels. Engineering Structures, 2021, 232, 111814.	2.6	11
11	Influence of Local Site Effects on the Typological Fragility Curves for Class-Oriented Masonry Buildings in Aggregate Condition. Open Civil Engineering Journal, 2021, 15, 149-164.	0.4	10
12	Mechanical characterization of â€œScaglia Rossaâ€“stone masonry through experimental and numerical analyses. Construction and Building Materials, 2021, 303, 124572.	3.2	13
13	Modal-based FE model updating via genetic algorithms: Exploiting artificial intelligence to build realistic numerical models of historical structures. Construction and Building Materials, 2021, 303, 124393.	3.2	37
14	Influence of Stereotomy on Discrete Approaches Applied to an Ancient Church in Muccia, Italy. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	21
15	Unreinforced and TRM-Reinforced Masonry Building Subjected to Pseudodynamic Excitations: Numerical and Experimental Insights. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	6
16	Damage assessment of ancient masonry churches stroked by the Central Italy earthquakes of 2016 by the non-smooth contact dynamics method. Bulletin of Earthquake Engineering, 2020, 18, 455-486.	2.3	59
17	Flexural wave propagation in infinite beams on a unilateral elastic foundation. Nonlinear Dynamics, 2020, 99, 721-735.	2.7	5
18	Static and dynamic testing of highway bridges: a best practice example. Journal of Civil Structural Health Monitoring, 2020, 10, 43-56.	2.0	17

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19	Expeditious damage index for arched structures based on dynamic identification testing. Construction and Building Materials, 2020, 265, 120236.	3.2	25
20	Aftershock fragility assessment of Italian cast-iron place RC industrial structures with precast vaults. Journal of Building Engineering, 2020, 29, 101206.	1.6	14
21	A Genetic Algorithm Procedure for the Automatic Updating of FEM Based on Ambient Vibration Tests. Sensors, 2020, 20, 3315.	2.1	41
22	Effectiveness of textile reinforced mortar (TRM) materials in preventing seismic-induced damage in a U-shaped masonry structure submitted to pseudo-dynamic excitations. Construction and Building Materials, 2020, 248, 118532.	3.2	26
23	Advanced numerical analyses by the Non-smooth Contact Dynamics method of an ancient masonry bell tower. Mathematical Methods in the Applied Sciences, 2020, 43, 7706-7725.	1.2	32
24	The Non-smooth Dynamics of Multiple Leaf Masonry Walls of the Arquata Del Tronto Fortress. Lecture Notes in Mechanical Engineering, 2020, , 1798-1807.	0.3	2
25	1:1 internal resonance in a two d.o.f. complete system: a comprehensive analysis and its possible exploitation for design. Meccanica, 2020, 55, 1309-1332.	1.2	24
26	Crumbling of Amatrice clock tower during 2016 Central Italy seismic sequence: Advanced numerical insights. Frattura Ed Integrita Strutturale, 2020, 14, 313-335.	0.5	24
27	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, , .	0.3	0
28	Damage assessment of San Francesco Church in Amandola hit by Central Italy 2016-2017 seismic event. AIP Conference Proceedings, 2020, , .	0.3	0
29	Tracking modal parameter evolution of different cultural heritage structures damaged by Central Italy earthquake of 2016. AIP Conference Proceedings, 2020, , .	0.3	0
30	Open challenges towards a seismic protection of new and existing buildings. AIP Conference Proceedings, 2019, , .	0.3	0
31	Mechanical characterization of unfired earth via numerical assessment of the experimental data. AIP Conference Proceedings, 2019, , .	0.3	1
32	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, , .	0.3	1
33	Comparative fragility methods for seismic assessment of masonry buildings located in Muccia (Italy). Journal of Building Engineering, 2019, 25, 100813.	1.6	63
34	Flood impact on masonry buildings: The effect of flow characteristics and incidence angle. Journal of Fluids and Structures, 2019, 88, 48-70.	1.5	26
35	Dynamic Behavior of an Inclined Existing Masonry Tower in Italy. Frontiers in Built Environment, 2019, 5, .	1.2	35
36	Tracking modal parameters evolution of a school building during retrofitting works. Bulletin of Earthquake Engineering, 2019, 17, 1029-1052.	2.3	33

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37	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
38	Design, analysis and retrofitting of civil structures and infrastructures in Seismic Prone Areas. AIP Conference Proceedings, 2019, , .	0.3	0
39	Evaluation of different approaches for the seismic vulnerability assessment of RC structures. AIP Conference Proceedings, 2019, , .	0.3	1
40	On the nonlinear behaviour of unfired dry earth. AIP Conference Proceedings, 2019, , .	0.3	2
41	Damage Assessment by Numerical Modeling of Sant'Agostino's Sanctuary in Offida During the Central Italy 2016â€“2017 Seismic Sequence. Frontiers in Built Environment, 2019, 4, .	1.2	35
42	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.	0.3	2
43	THE NON-SMOOTH STORY OF DIFFERENT MASONRY TOWERS DAMAGED BY THE CENTRAL ITALY SEISMIC SEQUENCE OF 2016. , 2019, , .		0
44	Sustainable Engineering for Resilient Built and Natural Environments. , 2019, , 297-310.		0
45	DAMAGE SURVEY AND ADVANCED SEISMIC ANALYSES OF DIFFERENT MASONRY CHURCHES AFTER THE CENTRAL ITALY EARTHQUAKE OF 2016. , 2019, , .		0
46	Seismic Assessment of a Monumental Building through Nonlinear Analyses of a 3D Solid Model. Journal of Earthquake Engineering, 2018, 22, 35-61.	1.4	62
47	Modal parameters identification with environmental tests and advanced numerical analyses for masonry bell towers: a meaningful case study. Procedia Structural Integrity, 2018, 11, 306-313.	0.3	15
48	Iconic crumbling of the clock tower in Amatrice after 2016 central Italy seismic sequence: advanced numerical insight. Procedia Structural Integrity, 2018, 11, 314-321.	0.3	35
49	The non-smooth contact dynamics method for the analysis of an ancient masonry tower. AIP Conference Proceedings, 2018, , .	0.3	7
50	Existing and new structures in seismic prone areas: Advanced numerical modelling and experimentation. AIP Conference Proceedings, 2018, , .	0.3	0
51	Monitoring cultural heritage buildings: The San Ciriaco bell-tower in Ancona. AIP Conference Proceedings, 2018, , .	0.3	4
52	Axial-transversal coupling in the nonlinear dynamics of a beam with an inclined roller. International Journal of Mechanical Sciences, 2018, 144, 490-501.	3.6	4
53	Reply to the Discussion on "A comprehensive analysis of hardening/softening behavior of shearable planar beams with whatever axial boundary constraint"â€™, by D. Genovese. Meccanica, 2017, 52, 3005-3008.	1.2	3
54	Comparing Nonlinear Free Vibrations of Timoshenko Beams with Mechanical or Geometric Curvature Definition. Procedia IUTAM, 2017, 20, 34-41.	1.2	24

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55	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.	1.6	133
56	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, , .	0.3	7
57	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.	2.0	97
58	Vulnerability reduction of existing buildings and design of new structures in seismic area. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
59	Global analyses of historical masonry buildings: Equivalent frame vs. 3D solid models. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
60	Seismic assessment of existing precast concrete buildings: Influence of deformable connections. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
61	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
62	Revealing nonlinear dynamical behaviour of laminated glass. <i>Procedia Engineering</i> , 2017, 199, 1454-1459.	1.2	3
63	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.	1.2	14
64	Numerical modeling, experimentation and design practice for masonry structures in seismic prone areas. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
65	Identification and calibration of the structural model of historical masonry building damaged during the 2016 Italian earthquakes: The case study of Palazzo del PodestÀ in Montelupone. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	11
66	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, , .	0.3	4
67	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.	0.4	44
68	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.	0.4	15
69	SEISMIC ASSESSMENT OF CULTURAL HERITAGE: NONLINEAR 3D ANALYSES OF "SANTA MARIA DELLA CARITÀ" IN ASCOLI PICENO. , 2017, , .		7
70	Open Challenges in Seismic Design of New Structures and Vulnerability Reduction of Existing Buildings. <i>Open Civil Engineering Journal</i> , 2017, 11, 1024-1025.	0.4	0
71	Seismic performance of precast reinforced concrete buildings with dowel pin connections. <i>Journal of Building Engineering</i> , 2016, 7, 224-238.	1.6	64
72	Seismic behavior of an Italian Renaissance Sanctuary: Damage assessment by numerical modelling. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	15

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73	Assessment of seismic behaviour of heritage masonry buildings using numerical modelling. Journal of Building Engineering, 2016, 8, 29-47.	1.6	128
74	Damage detection in a precast structure subjected to an earthquake: A numerical approach. Engineering Structures, 2016, 127, 447-458.	2.6	32
75	Experimental assessment of concrete compressive strength in old existing RC buildings: A possible way to reduce the dispersion of DT results. Journal of Building Engineering, 2016, 8, 162-171.	1.6	14
76	A comprehensive analysis of hardening/softening behaviour of shearable planar beams with whatever axial boundary constraint. Meccanica, 2016, 51, 2589-2606.	1.2	42
77	Numerical model upgrading of a historical masonry palace monitored with a wireless sensor network. International Journal of Masonry Research and Innovation, 2016, 1, 74.	0.3	53
78	Dynamic Parameters Identification of Structural Laminated Glass. , 2015, , .		1
79	On the experimental determination of dynamical properties of laminated glass. Annals of Solid and Structural Mechanics, 2015, 7, 27-43.	0.5	26
80	Vibration-Based SHM of Ordinary Buildings: Detection and Quantification of Structural Damage. , 2015, , .		8
81	Post-World War II Italian school buildings: typical and specific seismic vulnerabilities. Journal of Building Engineering, 2015, 4, 152-166.	1.6	46
82	Nonlinear free dynamics of a two-layer composite beam with different boundary conditions. Meccanica, 2015, 50, 675-688.	1.2	26
83	Nonlinear vibrations of non-uniform beams by the MTS asymptotic expansion method. Continuum Mechanics and Thermodynamics, 2015, 27, 703-717.	1.4	23
84	Simple formulas for the natural frequencies of non-uniform cables and beams. International Journal of Mechanical Sciences, 2013, 77, 155-163.	3.6	38
85	On Flexural Vibrations of Shear Deformable Laminated Beams. , 2012, , .		3
86	Effects of shear stiffness, rotatory and axial inertia, and interface stiffness on free vibrations of a two-layer beam. Journal of Sound and Vibration, 2012, 331, 5247-5267.	2.1	35
87	Experimental determination of the fracture properties of unfired dry earth. Engineering Fracture Mechanics, 2012, 87, 62-72.	2.0	34
88	An Experimental Study On Damage Evolution of Unfired Dry Earth Under Compression. International Journal of Fracture, 2011, 172, 193-200.	1.1	19
89	Simple Mechanical Model of Curved Beams by a 3D Approach. Journal of Engineering Mechanics - ASCE, 2009, 135, 597-613.	1.6	13
90	Fracture Characteristics of Unfired Earth. International Journal of Fracture, 2008, 149, 193-198.	1.1	22

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91	Dry Masonry Strengthening through Basalt Fibre Ropes: Experimental Results against Out-of-Plane Actions. Key Engineering Materials, 0, 624, 584-594.	0.4	20
92	Advanced Seismic Analyses of "Apennine Churches" Struck by the Central Italy Earthquakes of 2016 by the Non-Smooth Contact Dynamics Method. Key Engineering Materials, 0, 817, 309-316.	0.4	5
93	Tracking Modal Parameter Evolution of Different Cultural Heritage Structure Damaged by Central Italy Earthquake of 2016. Key Engineering Materials, 0, 817, 334-341.	0.4	6
94	Influence of the Shear-Bending Interaction on the Global Capacity of Reinforced Concrete Frames. Advances in Civil and Industrial Engineering Book Series, 0, , 84-111.	0.2	8
95	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