

Claudio Modena

List of Publications by Year in descending order

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85
papers

2,823
citations

168829

31
h-index

206121

51
g-index

86
all docs

86
docs citations

86
times ranked

2112
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage to churches in the 2016 central Italy earthquakes. Bulletin of Earthquake Engineering, 2019, 17, 5763-5790.	2.3	71
2	Post-earthquake controls and damage detection through structural health monitoring: applications in l'€™Aquila. Journal of Civil Structural Health Monitoring, 2018, 8, 217-236.	2.0	29
3	Selected Papers from the 10th International Conference on Structural Analysis of Historical Constructions (SAHC 2016). International Journal of Architectural Heritage, 2018, 12, 309-309.	1.7	0
4	A Bayesian approach to rapid seismic vulnerability assessment at urban scale. International Journal of Architectural Heritage, 2018, 12, 36-46.	1.7	10
5	Comparing expeditious procedures for the seismic vulnerability assessment on the European territorial context: reliability, feasibility, cost, and time consumption. International Journal of Architectural Heritage, 2018, 12, 1150-1161.	1.7	8
6	Application of an in-plane/out-of-plane interaction model for URM infill walls to dynamic seismic analysis of RC frame buildings. Bulletin of Earthquake Engineering, 2018, 16, 6163-6190.	2.3	10
7	Strengthening of Stone and Brick Masonry Buildings. Building Pathology and Rehabilitation, 2018, , 59-84.	0.1	10
8	Efficiency of alternative intensity measures for the seismic assessment of monolithic free-standing columns. Bulletin of Earthquake Engineering, 2017, 15, 1635-1659.	2.3	30
9	Monitoring of orthotropic steel decks for experimental evaluation of residual fatigue life. Journal of Civil Structural Health Monitoring, 2017, 7, 517-539.	2.0	12
10	Out-of-plane shake-table tests of strengthened multi-leaf stone masonry walls. Bulletin of Earthquake Engineering, 2017, 15, 4299-4317.	2.3	34
11	Numerical analysis of the in-plane behaviour of three-leaf stone masonry panels consolidated with grout injection. Bulletin of Earthquake Engineering, 2017, 15, 357-383.	2.3	11
12	Structural health monitoring: a tool for managing risks in sub-standard conditions. Journal of Civil Structural Health Monitoring, 2016, 6, 365-375.	2.0	7
13	Effect on the Structure in Elevation of Wood Deterioration on Small-Pile Foundation: Numerical Analyses. International Journal of Architectural Heritage, 2016, 10, 44-54.	1.7	7
14	Seismic vulnerability assessment form for free-standing columns based on a simplified numerical analysis. International Journal of Architectural Heritage, 2016, , .	1.7	6
15	Selected Papers from the 9th International Conference on Structural Analysis of Historical Constructions (SAHC 2014). International Journal of Architectural Heritage, 2016, 10, 119-119.	1.7	0
16	Uncertainty quantification in structural health monitoring: Applications on cultural heritage buildings. Mechanical Systems and Signal Processing, 2016, 66-67, 268-281.	4.4	70
17	Simplified seismic assessment of railway masonry arch bridges by limit analysis. Structure and Infrastructure Engineering, 2016, 12, 567-591.	2.0	48
18	Optimal Critical Infrastructure Retrofitting Model for Evacuation Planning. Transportation Research Procedia, 2015, 10, 714-724.	0.8	6

#	ARTICLE	IF	CITATIONS
19	Effectiveness of plasters and textile reinforced mortars for strengthening clay masonry infill walls subjected to combined inâ€plane/outâ€ofâ€plane actions / Wirksamkeit von Putz und textiltbewehrtem MÄrttel bei der VerstÄrkung von AusfachungswÄnden aus Ziegelmauerwerk, die kombinierter Scheibenâ€ und Plattenbeanspruchung ausgesetzt sind. Mauerwerk, 2015, 19, 334-354.	0.2	48
20	Reinforced concrete and masonry arch bridges in seismic areas: typical deficiencies and retrofitting strategies. Structure and Infrastructure Engineering, 2015, 11, 415-442.	2.0	45
21	Limit analysis of transverse seismic capacity of multi-span masonry arch bridges. Bulletin of Earthquake Engineering, 2015, 13, 1557-1579.	2.3	37
22	Simplified seismic assessment of multi-span masonry arch bridges. Bulletin of Earthquake Engineering, 2015, 13, 2629-2646.	2.3	47
23	Comparison of seismic analysis methods applied to a historical church struck by 2009 Lâ€™Aquila earthquake. Bulletin of Earthquake Engineering, 2015, 13, 3749-3778.	2.3	41
24	Contribution of<i>in situ</i>and laboratory investigations for assessing seismic vulnerability of existing bridges. Structure and Infrastructure Engineering, 2015, 11, 1147-1162.	2.0	31
25	Current practice and open issues in strengthening historical buildings with composites. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1971-1985.	1.3	132
26	Residual life of historic riveted steel bridges: an analytical approach. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2014, 167, 17-32.	0.3	7
27	Experimental assessment of in-plane behaviour of three-leaf stone masonry walls. Construction and Building Materials, 2014, 53, 149-161.	3.2	66
28	A unified framework for earthquake risk assessment of transportation networks and gross regional product. Bulletin of Earthquake Engineering, 2014, 12, 795-806.	2.3	14
29	Select Papers from SAHC 2012: 8th International Conference on Structural Analysis of Historical Constructions. International Journal of Architectural Heritage, 2014, 8, 311-311.	1.7	0
30	Calibration of analytical formulations predicting compressive strength in consolidated three-leaf masonry walls. Construction and Building Materials, 2014, 64, 28-38.	3.2	19
31	Seismic vulnerability of bridges in transport networks subjected to environmental deterioration. Bulletin of Earthquake Engineering, 2013, 11, 561-579.	2.3	56
32	An integrated procedure for management of bridge networks in seismic areas. Bulletin of Earthquake Engineering, 2013, 11, 543-559.	2.3	17
33	Structural health monitoring of the Roman Arena of Verona, Italy. Journal of Civil Structural Health Monitoring, 2013, 3, 227-246.	2.0	40
34	Macro-Scale Analysis of Damage to Churches after Earthquake in Abruzzo (Italy) on April 6, 2009. Journal of Earthquake Engineering, 2012, 16, 739-758.	1.4	70
35	Fatigue Damage Estimation in Existing Railway Steel Bridges by Detailed Loading History Analysis. ISRN Civil Engineering, 2012, 2012, 1-13.	0.4	9
36	Fatigue Behaviour of Steel Bridge Joints Strenghtened with FRP Laminates. Modern Applied Science, 2012, 6, .	0.4	7

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37	Structural Analysis of the Cantilever Construction Process in Cable-Stayed Bridges. <i>Periodica Polytechnica: Civil Engineering</i> , 2012, 56, 141.	0.6	12
38	Experimental behaviour of reinforced concrete elements repaired with polymer-modified cementitious mortar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 517-527.	1.3	12
39	Structural Aspects of The Conservation of Historic Masonry Constructions in Seismic Areas: Remedial Measures and Emergency Actions. <i>International Journal of Architectural Heritage</i> , 2011, 5, 539-558.	1.7	53
40	Compressive behaviour of a new reinforced masonry system. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 565-581.	1.3	20
41	Cyclic out-of-plane behaviour of tall reinforced masonry walls under P effects. <i>Engineering Structures</i> , 2011, 33, 287-297.	2.6	12
42	In-plane cyclic behaviour of a new reinforced masonry system: Experimental results. <i>Engineering Structures</i> , 2011, 33, 2584-2596.	2.6	36
43	Influence of longitudinal stiffeners on elastic stability of girder webs. <i>Journal of Constructional Steel Research</i> , 2011, 67, 51-64.	1.7	27
44	Fatigue tests on riveted steel elements taken from a railway bridge. <i>Structure and Infrastructure Engineering</i> , 2011, 7, 907-920.	2.0	41
45	Elasto-plastic behaviour of perforated steel plates subjected to compression and bending. <i>Steel and Composite Structures</i> , 2011, 11, 131-147.	1.3	5
46	Arranging Geometric Configuration of Cable-Stayed Bridges Taking Fatigue into Account. , 2010, , .		1
47	Response to discussion by O. Bedair of Imperfections in steel girder webs with and without perforations under patch loading. <i>Journal of Constructional Steel Research</i> , 2010, 66, 608-609.	1.7	0
48	Experimental testing of tall reinforced masonry walls under out-of-plane actions. <i>Construction and Building Materials</i> , 2010, 24, 2559-2571.	3.2	29
49	The effect of fatigue on the arrangement of hangers in tied arch bridges. <i>Engineering Structures</i> , 2010, 32, 1140-1147.	2.6	21
50	Seismic Vulnerability of Historical Structures: Damage State of the Abruzzo (Italy) Churches in the Sequence of the April 2009 Earthquake. <i>Advanced Materials Research</i> , 2010, 133-134, 765-770.	0.3	3
51	The S. Marco Church in L'Aquila: Provisional Interventions after the 2009 Abruzzo Earthquake. <i>Advanced Materials Research</i> , 2010, 133-134, 953-958.	0.3	0
52	Preliminary Studies for the Recovering of the Armstrong, Mitchell & Co. Hydraulic Crane of the Arsenal of Venice. <i>Advanced Materials Research</i> , 2010, 133-134, 519-524.	0.3	0
53	Shaking Table Tests on Multi-Leaf Stone Masonry Structures: Analysis of Stiffness Decay. <i>Advanced Materials Research</i> , 2010, 133-134, 647-652.	0.3	12
54	Settlement Induced Damage Modelling of Historical Buildings: The Bell Tower of the Basilica dei Frari in Venice. <i>Advanced Materials Research</i> , 2010, 133-134, 561-566.	0.3	2

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55	Cultural Heritage Buildings and the Abruzzo Earthquake: Performance and Post-Earthquake Actions. <i>Advanced Materials Research</i> , 2010, 133-134, 3-17.	0.3	14
56	Analytical Model for FRP Confinement of Concrete Columns with and without Internal Steel Reinforcement. <i>Journal of Composites for Construction</i> , 2010, 14, 693-705.	1.7	135
57	In-Plane Behavior of Clay Masonry Walls: Experimental Testing and Finite-Element Modeling. <i>Journal of Structural Engineering</i> , 2010, 136, 1379-1392.	1.7	68
58	L'Aquila 6th April 2009 Earthquake: Emergency and Post-emergency Activities on Cultural Heritage Buildings. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010, , 495-521.	0.1	17
59	El proyecto y la intervenci3n en el campanario de la catedral de Monza, Italia. <i>Loggia, Arquitectura & Restauraci3n</i> , 2010, , 122.	0.2	0
60	Influence of FRP Axial Rigidity on FRP-Concrete Bond Behaviour: An Analytical Study. <i>Advances in Structural Engineering</i> , 2009, 12, 639-649.	1.2	16
61	Estimation of load reduction factors for clay masonry walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 1155-1174.	2.5	26
62	Non-linear analysis of perforated steel plates subjected to localised symmetrical load. <i>Journal of Constructional Steel Research</i> , 2009, 65, 959-964.	1.7	33
63	Elastic stability of plates with circular and rectangular holes subjected to axial compression and bending moment. <i>Thin-Walled Structures</i> , 2009, 47, 241-255.	2.7	47
64	Linear and non-linear behaviour of steel plates with circular and rectangular holes under shear loading. <i>Thin-Walled Structures</i> , 2009, 47, 607-616.	2.7	33
65	Imperfections in steel girder webs with and without perforations under patch loading. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1121-1129.	1.7	23
66	Rehabilitation of reinforced concrete axially loaded elements with polymer-modified cementitious mortar. <i>Construction and Building Materials</i> , 2009, 23, 3129-3137.	3.2	18
67	FRP strengthening of steel and steel-concrete composite structures: an analytical approach. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009, 42, 353-363.	1.3	27
68	Linear buckling analysis of unstiffened plates subjected to both patch load and bending moment. <i>Engineering Structures</i> , 2008, 30, 3731-3738.	2.6	26
69	Damage detection based on damping analysis of ambient vibration data. <i>Structural Control and Health Monitoring</i> , 2008, 17, n/a-n/a.	1.9	20
70	Linear buckling analysis of perforated plates subjected to localised symmetrical load. <i>Engineering Structures</i> , 2008, 30, 3151-3158.	2.6	35
71	Experimental Study on Bond Behavior between Concrete and FRP Reinforcement. <i>Journal of Composites for Construction</i> , 2008, 12, 180-189.	1.7	118
72	Investigations On Historic Centers In Seismic Areas: Guidelines For The Diagnosis. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0

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73	Seismic Assessment of Complex Historical Buildings: Application to Reggio Emilia Cathedral, Italy. International Journal of Architectural Heritage, 2008, 2, 304-327.	1.7	55
74	Flexural strengthening of timber beams by traditional and innovative techniques. Journal of Building Appraisal, 2007, 3, 125-143.	0.4	41
75	Masonry. , 2006, , 137-156.		3
76	Mechanical behaviour of historic masonry structures strengthened by bed joints structural repointing. Construction and Building Materials, 2005, 19, 63-73.	3.2	125
77	Performance Evaluation of Short Span Reinforced Concrete Arch Bridges. Journal of Bridge Engineering, 2004, 9, 424-434.	1.4	23
78	Fiber Reinforced Polymer Shear Strengthening of Reinforced Concrete Beams with Transverse Steel Reinforcement. Journal of Composites for Construction, 2002, 6, 104-111.	1.7	208
79	Seismic response of multi-span simply supported bridges to a spatially varying earthquake ground motion. Earthquake Engineering and Structural Dynamics, 2002, 31, 1325-1345.	2.5	133
80	Behavior of Brick Masonry Vaults Strengthened by FRP Laminates. Journal of Composites for Construction, 2001, 5, 163-169.	1.7	160
81	Damage Localization in Reinforced Concrete Structures by Using Damping Measurements. Key Engineering Materials, 1999, 167-168, 132-141.	0.4	51
82	Structural Analysis of Historical Metal Bridges in Italy. Advanced Materials Research, 0, 133-134, 525-530.	0.3	11
83	Seismic Intervention and Dynamic Testing of an Arch Bridge. Applied Mechanics and Materials, 0, 105-107, 1159-1164.	0.2	1
84	Experimental Characterization of Timber Floors Strengthened by in-Plane Improvement Techniques. Advanced Materials Research, 0, 778, 682-689.	0.3	15
85	<i>In Situ&/i> Investigations for the Seismic Assessment of Existing Bridges. Key Engineering Materials, 0, 628, 102-108.	0.4	0