

Claudio Modena

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1095826/publications.pdf>

Version: 2024-02-01

85
papers

2,823
citations

147786

31
h-index

182417

51
g-index

86
all docs

86
docs citations

86
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber Reinforced Polymer Shear Strengthening of Reinforced Concrete Beams with Transverse Steel Reinforcement. <i>Journal of Composites for Construction</i> , 2002, 6, 104-111.	3.2	208
2	Behavior of Brick Masonry Vaults Strengthened by FRP Laminates. <i>Journal of Composites for Construction</i> , 2001, 5, 163-169.	3.2	160
3	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.	3.2	135
4	Seismic response of multi-span simply supported bridges to a spatially varying earthquake ground motion. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1325-1345.	4.4	133
5	Current practice and open issues in strengthening historical buildings with composites. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1971-1985.	3.1	132
6	Mechanical behaviour of historic masonry structures strengthened by bed joints structural repointing. <i>Construction and Building Materials</i> , 2005, 19, 63-73.	7.2	125
7	Experimental Study on Bond Behavior between Concrete and FRP Reinforcement. <i>Journal of Composites for Construction</i> , 2008, 12, 180-189.	3.2	118
8	Damage to churches in the 2016 central Italy earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 5763-5790.	4.1	71
9	Macro-Scale Analysis of Damage to Churches after Earthquake in Abruzzo (Italy) on April 6, 2009. <i>Journal of Earthquake Engineering</i> , 2012, 16, 739-758.	2.5	70
10	Uncertainty quantification in structural health monitoring: Applications on cultural heritage buildings. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 268-281.	8.0	70
11	In-Plane Behavior of Clay Masonry Walls: Experimental Testing and Finite-Element Modeling. <i>Journal of Structural Engineering</i> , 2010, 136, 1379-1392.	3.4	68
12	Experimental assessment of in-plane behaviour of three-leaf stone masonry walls. <i>Construction and Building Materials</i> , 2014, 53, 149-161.	7.2	66
13	Seismic vulnerability of bridges in transport networks subjected to environmental deterioration. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 561-579.	4.1	56
14	Seismic Assessment of Complex Historical Buildings: Application to Reggio Emilia Cathedral, Italy. <i>International Journal of Architectural Heritage</i> , 2008, 2, 304-327.	3.1	55
15	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.	3.1	53
16	Damage Localization in Reinforced Concrete Structures by Using Damping Measurements. <i>Key Engineering Materials</i> , 1999, 167-168, 132-141.	0.4	51
17	Effectiveness of plasters and textile reinforced mortars for strengthening clay masonry infill walls subjected to combined in-plane/out-of-plane actions / Wirksamkeit von Putz und textillbewehrtem Martel bei der Verstarkung von Ausfachungswanden aus Ziegelmauerwerk, die kombinierter Scheiben- und Plattenbeanspruchung ausgesetzt sind. <i>Mauerwerk</i> , 2015, 19, 334-354.	0.1	48
18	Simplified seismic assessment of railway masonry arch bridges by limit analysis. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 567-591.	3.7	48

#	ARTICLE	IF	CITATIONS
19	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.	5.3	47
20	Simplified seismic assessment of multi-span masonry arch bridges. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 2629-2646.	4.1	47
21	Reinforced concrete and masonry arch bridges in seismic areas: typical deficiencies and retrofitting strategies. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 415-442.	3.7	45
22	Flexural strengthening of timber beams by traditional and innovative techniques. <i>Journal of Building Appraisal</i> , 2007, 3, 125-143.	0.4	41
23	Fatigue tests on riveted steel elements taken from a railway bridge. <i>Structure and Infrastructure Engineering</i> , 2011, 7, 907-920.	3.7	41
24	Comparison of seismic analysis methods applied to a historical church struck by 2009 L'Aquila earthquake. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 3749-3778.	4.1	41
25	Structural health monitoring of the Roman Arena of Verona, Italy. <i>Journal of Civil Structural Health Monitoring</i> , 2013, 3, 227-246.	3.9	40
26	Limit analysis of transverse seismic capacity of multi-span masonry arch bridges. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 1557-1579.	4.1	37
27	In-plane cyclic behaviour of a new reinforced masonry system: Experimental results. <i>Engineering Structures</i> , 2011, 33, 2584-2596.	5.3	36
28	Linear buckling analysis of perforated plates subjected to localised symmetrical load. <i>Engineering Structures</i> , 2008, 30, 3151-3158.	5.3	35
29	Out-of-plane shake-table tests of strengthened multi-leaf stone masonry walls. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 4299-4317.	4.1	34
30	Non-linear analysis of perforated steel plates subjected to localised symmetrical load. <i>Journal of Constructional Steel Research</i> , 2009, 65, 959-964.	3.9	33
31	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.	5.3	33
32	Contribution of <i>in situ</i> and laboratory investigations for assessing seismic vulnerability of existing bridges. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 1147-1162.	3.7	31
33	Efficiency of alternative intensity measures for the seismic assessment of monolithic free-standing columns. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1635-1659.	4.1	30
34	Experimental testing of tall reinforced masonry walls under out-of-plane actions. <i>Construction and Building Materials</i> , 2010, 24, 2559-2571.	7.2	29
35	Post-earthquake controls and damage detection through structural health monitoring: applications in L'Aquila. <i>Journal of Civil Structural Health Monitoring</i> , 2018, 8, 217-236.	3.9	29
36	FRP strengthening of steel and steel-concrete composite structures: an analytical approach. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009, 42, 353-363.	3.1	27

#	ARTICLE	IF	CITATIONS
37	Influence of longitudinal stiffeners on elastic stability of girder webs. <i>Journal of Constructional Steel Research</i> , 2011, 67, 51-64.	3.9	27
38	Linear buckling analysis of unstiffened plates subjected to both patch load and bending moment. <i>Engineering Structures</i> , 2008, 30, 3731-3738.	5.3	26
39	Estimation of load reduction factors for clay masonry walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 1155-1174.	4.4	26
40	Performance Evaluation of Short Span Reinforced Concrete Arch Bridges. <i>Journal of Bridge Engineering</i> , 2004, 9, 424-434.	2.9	23
41	Imperfections in steel girder webs with and without perforations under patch loading. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1121-1129.	3.9	23
42	The effect of fatigue on the arrangement of hangers in tied arch bridges. <i>Engineering Structures</i> , 2010, 32, 1140-1147.	5.3	21
43	Damage detection based on damping analysis of ambient vibration data. <i>Structural Control and Health Monitoring</i> , 2008, 17, n/a-n/a.	4.0	20
44	Compressive behaviour of a new reinforced masonry system. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 565-581.	3.1	20
45	Calibration of analytical formulations predicting compressive strength in consolidated three-leaf masonry walls. <i>Construction and Building Materials</i> , 2014, 64, 28-38.	7.2	19
46	Rehabilitation of reinforced concrete axially loaded elements with polymer-modified cementitious mortar. <i>Construction and Building Materials</i> , 2009, 23, 3129-3137.	7.2	18
47	An integrated procedure for management of bridge networks in seismic areas. <i>Bulletin of Earthquake Engineering</i> , 2013, 11, 543-559.	4.1	17
48	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.	0.2	17
49	Influence of FRP Axial Rigidity on FRP-Concrete Bond Behaviour: An Analytical Study. <i>Advances in Structural Engineering</i> , 2009, 12, 639-649.	2.4	16
50	Experimental Characterization of Timber Floors Strengthened by in-Plane Improvement Techniques. <i>Advanced Materials Research</i> , 0, 778, 682-689.	0.3	15
51	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
52	A unified framework for earthquake risk assessment of transportation networks and gross regional product. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 795-806.	4.1	14
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	Experimental behaviour of reinforced concrete elements repaired with polymer-modified cementitious mortar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 517-527.	3.1	12

#	ARTICLE	IF	CITATIONS
55	Cyclic out-of-plane behaviour of tall reinforced masonry walls under P effects. <i>Engineering Structures</i> , 2011, 33, 287-297.	5.3	12
56	Structural Analysis of the Cantilever Construction Process in Cable-Stayed Bridges. <i>Periodica Polytechnica: Civil Engineering</i> , 2012, 56, 141.	0.6	12
57	Monitoring of orthotropic steel decks for experimental evaluation of residual fatigue life. <i>Journal of Civil Structural Health Monitoring</i> , 2017, 7, 517-539.	3.9	12
58	Structural Analysis of Historical Metal Bridges in Italy. <i>Advanced Materials Research</i> , 0, 133-134, 525-530.	0.3	11
59	Numerical analysis of the in-plane behaviour of three-leaf stone masonry panels consolidated with grout injection. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 357-383.	4.1	11
60	A Bayesian approach to rapid seismic vulnerability assessment at urban scale. <i>International Journal of Architectural Heritage</i> , 2018, 12, 36-46.	3.1	10
61	Application of an in-plane/out-of-plane interaction model for URM infill walls to dynamic seismic analysis of RC frame buildings. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 6163-6190.	4.1	10
62	Strengthening of Stone and Brick Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , 2018, , 59-84.	0.2	10
63	Fatigue Damage Estimation in Existing Railway Steel Bridges by Detailed Loading History Analysis. <i>ISRN Civil Engineering</i> , 2012, 2012, 1-13.	0.4	9
64	Comparing expeditious procedures for the seismic vulnerability assessment on the European territorial context: reliability, feasibility, cost, and time consumption. <i>International Journal of Architectural Heritage</i> , 2018, 12, 1150-1161.	3.1	8
65	Fatigue Behaviour of Steel Bridge Joints Strengthened with FRP Laminates. <i>Modern Applied Science</i> , 2012, 6, .	0.6	7
66	Residual life of historic riveted steel bridges: an analytical approach. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2014, 167, 17-32.	0.6	7
67	Structural health monitoring: a tool for managing risks in sub-standard conditions. <i>Journal of Civil Structural Health Monitoring</i> , 2016, 6, 365-375.	3.9	7
68	Effect on the Structure in Elevation of Wood Deterioration on Small-Pile Foundation: Numerical Analyses. <i>International Journal of Architectural Heritage</i> , 2016, 10, 44-54.	3.1	7
69	Optimal Critical Infrastructure Retrofitting Model for Evacuation Planning. <i>Transportation Research Procedia</i> , 2015, 10, 714-724.	1.5	6
70	Seismic vulnerability assessment form for free-standing columns based on a simplified numerical analysis. <i>International Journal of Architectural Heritage</i> , 2016, , .	3.1	6
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	Masonry. , 2006, , 137-156.		3
74	Settlement Induced Damage Modelling of Historical Buildings: The Bell Tower of the "Basilica dei Frari" in Venice. Advanced Materials Research, 2010, 133-134, 561-566.	0.3	2
75	Arranging Geometric Configuration of Cable-Stayed Bridges Taking Fatigue into Account. , 2010, , .		1
76	Seismic Intervention and Dynamic Testing of an Arch Bridge. Applied Mechanics and Materials, 0, 105-107, 1159-1164.	0.2	1
77	Investigations On Historic Centers In Seismic Areas: Guidelines For The Diagnosis. AIP Conference Proceedings, 2008, , .	0.4	0
78	Response to discussion by O. Bedair of "Imperfections in steel girder webs with and without perforations under patch loading". Journal of Constructional Steel Research, 2010, 66, 608-609.	3.9	0
79	The S. Marco Church in L'Aquila: Provisional Interventions after the 2009 Abruzzo Earthquake. Advanced Materials Research, 2010, 133-134, 953-958.	0.3	0
80	Preliminary Studies for the Recovering of the Armstrong, Mitchell & Co. Hydraulic Crane of the Arsenal of Venice. Advanced Materials Research, 2010, 133-134, 519-524.	0.3	0
81	"In Situ" Investigations for the Seismic Assessment of Existing Bridges. Key Engineering Materials, 0, 628, 102-108.	0.4	0
82	Select Papers from SAHC 2012: 8th International Conference on Structural Analysis of Historical Constructions. International Journal of Architectural Heritage, 2014, 8, 311-311.	3.1	0
83	Selected Papers from the 9th International Conference on Structural Analysis of Historical Constructions (SAHC 2014). International Journal of Architectural Heritage, 2016, 10, 119-119.	3.1	0
84	Selected Papers from the 10th International Conference on Structural Analysis of Historical Constructions (SAHC 2016). International Journal of Architectural Heritage, 2018, 12, 309-309.	3.1	0
85	El proyecto y la intervenci3n en el campanario de la catedral de Monza, Italia. Loggia, Arquitectura & Restauraci3n, 2010, , 122.	0.1	0