

Gian Piero Lignola

List of Publications by Year in descending order

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99
papers

2,724
citations

159573

30
h-index

197805

49
g-index

110
all docs

110
docs citations

110
times ranked

1455
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance assessment of basalt FRCM for retrofit applications on masonry. Composites Part B: Engineering, 2017, 128, 1-18.	12.0	174
2	Round Robin Test for composite-to-brick shear bond characterization. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1761-1791.	3.1	172
3	Round Robin Test on tensile and bond behaviour of Steel Reinforced Grout systems. Composites Part B: Engineering, 2017, 127, 100-120.	12.0	155
4	Structural Evaluation of Full-Scale FRP-Confined Reinforced Concrete Columns. Journal of Composites for Construction, 2011, 15, 112-123.	3.2	154
5	Recommendation of RILEM Technical Committee 250-CSM: Test method for Textile Reinforced Mortar to substrate bond characterization. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	114
6	Evaluation of different computational modelling strategies for the analysis of low strength masonry structures. Engineering Structures, 2014, 73, 160-169.	5.3	113
7	Study of the seismic behavior of external RC beam-column joints through experimental tests and numerical simulations. Engineering Structures, 2013, 52, 207-219.	5.3	89
8	Experimental Performance of RC Hollow Columns Confined with CFRP. Journal of Composites for Construction, 2007, 11, 42-49.	3.2	81
9	Modeling of concrete cracking due to corrosion process of reinforcement bars. Cement and Concrete Research, 2015, 71, 78-92.	11.0	74
10	Experimental characterization of composite-to-brick masonry shear bond. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2581-2596.	3.1	67
11	Use of DIC technique for investigating the behaviour of FRCM materials for strengthening masonry elements. Composites Part B: Engineering, 2017, 129, 251-270.	12.0	65
12	Nonlinear Behavior of a Masonry Subassemblage Before and After Strengthening with Inorganic Matrix-Grid Composites. Journal of Composites for Construction, 2011, 15, 821-832.	3.2	63
13	Experimental investigation of the seismic performances of IMG reinforcement on curved masonry elements. Composites Part B: Engineering, 2015, 70, 53-63.	12.0	61
14	Experimental performance of FRCM retrofit on out-of-plane behaviour of clay brick walls. Composites Part B: Engineering, 2018, 148, 198-206.	12.0	56
15	Unified theory for confinement of RC solid and hollow circular columns. Composites Part B: Engineering, 2008, 39, 1151-1160.	12.0	54
16	Nonlinear Analyses of Tuff Masonry Walls Strengthened with Cementitious Matrix-Grid Composites. Journal of Composites for Construction, 2009, 13, 243-251.	3.2	54
17	Nondestructive assessment of corrosion of reinforcing bars through surface concrete cracks. Structural Concrete, 2017, 18, 104-117.	3.1	54
18	Rocking response assessment of in-plane laterally-loaded masonry walls with openings. Engineering Structures, 2013, 56, 1234-1248.	5.3	51

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19	Shaking table tests on a full-scale unreinforced and IMG-retrofitted clay brick masonry barrel vault. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 1663-1693.	4.1	45
20	Corrosion effects on seismic capacity of reinforced concrete structures. <i>Corrosion Reviews</i> , 2019, 37, 45-56.	2.0	45
21	Simplified Model for Strengthening Design of Beam-Column Internal Joints in Reinforced Concrete Frames. <i>Polymers</i> , 2015, 7, 1732-1754.	4.5	44
22	Collapse analysis of slender masonry barrel vaults. <i>Engineering Structures</i> , 2016, 117, 86-100.	5.3	42
23	Seismic Strengthening of Masonry Vaults with Abutments Using Textile-Reinforced Mortar. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	41
24	Numerical Investigation on the Influence of FRP Retrofit Layout and Geometry on the In-Plane Behavior of Masonry Walls. <i>Journal of Composites for Construction</i> , 2012, 16, 712-723.	3.2	40
25	Repair of composite-to-masonry bond using flexible matrix. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 2563-2580.	3.1	39
26	FRP confinement of masonry: analytical modeling. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 2101-2115.	3.1	38
27	Non-linear modeling of RC rectangular hollow piers confined with CFRP. <i>Composite Structures</i> , 2009, 88, 56-64.	5.8	35
28	Simple Method for the Design of Jet Grouted Umbrellas in Tunneling. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 1778-1790.	3.0	34
29	Modeling of flexural behavior of RC beams strengthened with mechanically fastened FRP strips. <i>Composite Structures</i> , 2011, 93, 1973-1985.	5.8	34
30	Analytical model for the effective strain in FRP-wrapped circular RC columns. <i>Composites Part B: Engineering</i> , 2012, 43, 3208-3218.	12.0	33
31	Influence of free edge stress concentration on effectiveness of FRP confinement. <i>Composites Part B: Engineering</i> , 2010, 41, 523-532.	12.0	32
32	Residual life and degradation assessment of wood elements used in soil bioengineering structures for slope protection. <i>Ecological Engineering</i> , 2016, 90, 498-509.	3.6	24
33	Masonry columns confined with fabric reinforced cementitious matrix (FRCM) systems: A round robin test. <i>Construction and Building Materials</i> , 2021, 298, 123816.	7.2	23
34	Simplified Modeling of Rectangular Concrete Cross-Sections Confined by External FRP Wrapping. <i>Polymers</i> , 2014, 6, 1187-1206.	4.5	21
35	Exact stiffness-matrix of two nodes Timoshenko beam on elastic medium. An analogy with Eringen model of nonlocal Euler-Bernoulli nanobeams. <i>Computers and Structures</i> , 2017, 182, 556-572.	4.4	20
36	Ductility-based incremental analysis of curved masonry structures. <i>Engineering Failure Analysis</i> , 2019, 97, 653-675.	4.0	19

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37	The protection of artistic assets through the base isolation of historical buildings: a novel uplifting technology. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 4247-4263.	3.1	18
38	Numerical Investigation of Masonry Strengthened with Composites. <i>Polymers</i> , 2018, 10, 334.	4.5	18
39	Spandrel panels in masonry buildings: Effectiveness of the diagonal strut model within the equivalent frame model. <i>Structures</i> , 2020, 27, 879-893.	3.6	18
40	Analytical Evaluation of FRP Wrapping Effectiveness in Restraining Reinforcement Bar Buckling. <i>Journal of Structural Engineering</i> , 2014, 140, .	3.4	17
41	Assessment of the effect of FRCM materials on the behaviour of masonry walls by means of FE models. <i>Engineering Structures</i> , 2019, 184, 145-157.	5.3	17
42	Influence of different set-up parameters on the bond behavior of FRCM composites. <i>Construction and Building Materials</i> , 2021, 308, 124964.	7.2	17
43	An overview of assessment and retrofit of corroded reinforced concrete structures. <i>Procedia Structural Integrity</i> , 2018, 11, 394-401.	0.8	16
44	Preliminary tsunami analytical fragility functions proposal for Italian coastal residential masonry buildings. <i>Structures</i> , 2021, 31, 68-79.	3.6	16
45	Analysis of RC Hollow Columns Strengthened with GFRP. <i>Journal of Composites for Construction</i> , 2011, 15, 545-556.	3.2	15
46	Nonlinear Analyses of Adobe Masonry Walls Reinforced with Fiberglass Mesh. <i>Polymers</i> , 2014, 6, 464-478.	4.5	15
47	A semi-probabilistic approach to the design of jet grouted umbrellas in tunnelling. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2007, 11, 207-217.	1.0	14
48	Wall-Like Reinforced Concrete Columns Externally Confined by Means of Glass FRP Laminates. <i>Advances in Structural Engineering</i> , 2013, 16, 593-603.	2.4	14
49	FRCM strengthening of clay brick walls for out of plane loads. <i>Composites Part B: Engineering</i> , 2019, 174, 107050.	12.0	14
50	Probabilistic design equations for the shear capacity of RC members with FRP internal shear reinforcement. <i>Composites Part B: Engineering</i> , 2014, 67, 199-208.	12.0	13
51	Design Oriented Model for the Assessment of T-Shaped Beam-Column Joints in Reinforced Concrete Frames. <i>Buildings</i> , 2017, 7, 118.	3.1	12
52	Out-of-Plane Retrofit of Masonry with Fiber-Reinforced Polymer and Fiber-Reinforced Cementitious Matrix Systems: Normalized Interaction Diagrams and Effects on Mechanisms Activation. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.2	12
53	Textile reinforced mortars systems: a sustainable way to retrofit structural masonry walls under tsunami loads. <i>International Journal of Masonry Research and Innovation</i> , 2018, 3, 200.	0.4	11
54	Unified Theory for Flexural Strengthening of Masonry with Composites. <i>Materials</i> , 2019, 12, 680.	2.9	11

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55	A combination of NDT methods for the restoration of monumental façades: The case study of Monte di Pietà (Naples, Italy). <i>Journal of Cultural Heritage</i> , 2010, 11, 360-364.	3.3	10
56	Comparison between Design Formulations and Numerical Results for In-Plane FRCM-Strengthened Masonry Walls. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4998.	2.5	10
57	Simple method to evaluate FRCM strengthening effects on in-plane shear capacity of masonry walls. <i>Construction and Building Materials</i> , 2021, 268, 121125.	7.2	10
58	Effects of Defects on Bond Behavior of Fiber Reinforced Cementitious Matrix Materials. <i>Materials</i> , 2020, 13, 164.	2.9	9
59	Effect of fiber-to-matrix bond on the performance of inorganic matrix composites. <i>Composite Structures</i> , 2021, 265, 113655.	5.8	9
60	Seismic Vulnerability of Ancient Colonnade. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2015, , 331-358.	0.2	9
61	Military Quarters in Nola, Italy – Caserma Principe Amedeo: Damage Assessment and Reconstruction of a Partially Collapsed XVIII Century Complex. <i>International Journal of Architectural Heritage</i> , 2013, 7, 225-246.	3.1	8
62	Influence of Short Segments in the Trabecation With Opposing Inclined Edges on the Seismic Vulnerability of the Marble Blocks Colonnade in the Archaeological Site of Pompeii. <i>International Journal of Architectural Heritage</i> , 2015, 9, 883-895.	3.1	8
63	Numerical Modelling of Masonry Barrel Vaults Reinforced with Textile Reinforced Mortars. <i>Key Engineering Materials</i> , 2017, 747, 11-19.	0.4	8
64	Multi-parameters mechanical modeling to derive a confinement model for masonry columns. <i>Construction and Building Materials</i> , 2019, 214, 303-317.	7.2	8
65	Impact of FRP and FRCM on the ductility of strengthened masonry members. <i>Structures</i> , 2020, 28, 1229-1243.	3.6	8
66	Influence of FRP wrapping on reinforcement performances at lap splice regions in RC columns. <i>Composites Part B: Engineering</i> , 2017, 116, 313-324.	12.0	7
67	FRP-reinforced masonry spandrels: Experimental campaign on reduced-scale specimens. <i>Construction and Building Materials</i> , 2020, 261, 119965.	7.2	7
68	Damage Assessment and Design of Structural Interventions for Monte di Pietà in Naples, Italy. <i>International Journal of Architectural Heritage</i> , 2011, 5, 647-676.	3.1	6
69	Multi-Scale Analysis of In-plane Behaviour of Tuff Masonry. <i>Open Construction and Building Technology Journal</i> , 2016, 10, 312-328.	0.7	6
70	Multiscale non-linear analysis of RC hollow piers wrapped with CFRP under shear-type load. <i>Construction and Building Materials</i> , 2012, 35, 947-959.	7.2	5
71	Repair of Clay Brick Walls for out of Plane Loads by Means of FRCM. <i>Key Engineering Materials</i> , 0, 747, 358-365.	0.4	5
72	Effects of the Mortar Matrix on the Flexural Capacity of Masonry Cross Sections Strengthened with FRCM Materials. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7908.	2.5	5

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73	Understanding the Damages Caused by the 1999 Kocaeli Earthquake on One of the Towers of the Theodosian Walls of Constantinople. <i>International Journal of Architectural Heritage</i> , 0, , 1-25.	3.1	5
74	Simplified approach to assess the vulnerability of masonry buildings under tsunami loads. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2023, 176, 754-766.	0.8	5
75	Masonry walls retrofitted with natural fibers under tsunami loads. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	4
76	Corrosion level estimation by means of the surface crack width. <i>Construction and Building Materials</i> , 2022, 342, 128010.	7.2	4
77	Efficiency of FRCM systems for strengthening of masonry walls. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
78	Seismic vulnerability of natural stone pinnacles on the Amalfi Coast in Italy. <i>Journal of Cultural Heritage</i> , 2010, 11, 68-80.	3.3	2
79	Second World War Damages of the Architectural Heritage: St. Maria Del Popolo Agli Incurabili Church in Naples. <i>Advanced Materials Research</i> , 2010, 133-134, 1137-1142.	0.3	2
80	Influence of Masonry Properties on Confinement: A Mechanical Model. <i>Key Engineering Materials</i> , 0, 624, 299-306.	0.4	2
81	Theoretical assessment of reinforced concrete T-shaped beam-column joints. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
82	Comparison of Different FE Modeling for In-Plane Shear Strengthening of Brittle Masonry with FRCM. <i>Key Engineering Materials</i> , 0, 817, 65-72.	0.4	2
83	Behaviour of masonry walls strengthened with fibre-reinforced cementitious materials. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2021, 174, 193-214.	0.4	2
84	Unified Approach for Structural Analysis of Curved Elements under Vertical Loads and Various Settlements. <i>International Journal of Architectural Heritage</i> , 2022, 16, 208-241.	3.1	1
85	Dynamic response of asymmetric bodies assuming a rocking behaviour. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2023, 176, 767-777.	0.8	1
86	Masonry spandrels reinforced by thin-steel stripes: Experimental program on reduced-scale specimens. <i>Construction and Building Materials</i> , 2021, 306, 124922.	7.2	1
87	Special Problems. <i>RILEM State-of-the-Art Reports</i> , 2016, , 195-262.	0.7	1
88	Seismic Vulnerability of Ancient Colonnade. , 2016, , 950-974.		1
89	Full Scale Clay Brick Un-Reinforced Masonry Vault: A Shaking Table Test. , 0, , .		1
90	DUCTILITY CAPACITY ASSESSMENT OF MASONRY MEMBERS STRENGTHENED WITH COMPOSITES. , 2019, , .		1

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91	Comparison of Two Parameters Models for clay brick masonry confinement. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 288-312.	0.9	1
92	Retrofit of Masonry Walls with Composites to Reduce Vulnerability to Tsunami Loads. <i>Lecture Notes in Civil Engineering</i> , 2022, , 1461-1472.	0.4	1
93	Confinement of RC Elements by Means of EBR FRP Systems. <i>RILEM State-of-the-Art Reports</i> , 2016, , 131-194.	0.7	0
94	Pushover analysis of fiber-reinforced polymer-strengthened masonry. , 2019, , 629-657.		0
95	Two Parameters Confinement Model for Clay Brick Masonry. <i>International Journal of Computational Methods</i> , 2020, 17, 1940010.	1.3	0
96	Evaluation of the most efficient IM for the vulnerability assessment of masonry façades. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
97	Effect of Matrix on Flexural Capacity of Masonry Members Strengthened with Composites. <i>Lecture Notes in Civil Engineering</i> , 2022, , 1450-1460.	0.4	0
98	A Design-Oriented Stress-Strain Constitutive Model for Clay-Brick Masonry Columns Confined by FRP. <i>Key Engineering Materials</i> , 0, 916, 147-154.	0.4	0
99	Finite Element Modelling of the Archaeological Colonnade in Pompeii. , 0, , .		0