

# Maria Rosa Valluzzi

## List of Publications by Year in descending order

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73  
papers

2,339  
citations

257450

24  
h-index

214800

47  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear behavior of masonry panels strengthened by FRP laminates. Construction and Building Materials, 2002, 16, 409-416.	7.2	199
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	Behavior of Brick Masonry Vaults Strengthened by FRP Laminates. Journal of Composites for Construction, 2001, 5, 163-169.	3.2	160
4	Round Robin Test on tensile and bond behaviour of Steel Reinforced Grout systems. Composites Part B: Engineering, 2017, 127, 100-120.	12.0	155
5	Current practice and open issues in strengthening historical buildings with composites. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1971-1985.	3.1	132
6	Mechanical behaviour of historic masonry structures strengthened by bed joints structural repointing. Construction and Building Materials, 2005, 19, 63-73.	7.2	125
7	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
8	Out-of-plane behaviour of infill masonry panels strengthened with composite materials. Materials and Structures/Materiaux Et Constructions, 2014, 47, 2131-2145.	3.1	104
9	Design choices and intervention techniques for repairing and strengthening of the Monza cathedral bell-tower. Construction and Building Materials, 2002, 16, 385-395.	7.2	82
10	On the vulnerability of historical masonry structures: analysis and mitigation. Materials and Structures/Materiaux Et Constructions, 2007, 40, 723-743.	3.1	71
11	Flexural and shear strengthening of un-reinforced masonry with FRP bars. Composites Science and Technology, 2006, 66, 289-296.	7.8	70
12	Experimental characterization of composite-to-brick masonry shear bond. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2581-2596.	3.1	67
13	IR thermography for interface analysis of FRP laminates externally bonded to RC beams. Materials and Structures/Materiaux Et Constructions, 2009, 42, 25-34.	3.1	60
14	Structural Aspects of The Conservation of Historic Masonry Constructions in Seismic Areas: Remedial Measures and Emergency Actions. International Journal of Architectural Heritage, 2011, 5, 539-558.	3.1	53
15	Geopolymer matrix for fibre reinforced composites aimed at strengthening masonry structures. Construction and Building Materials, 2017, 141, 542-552.	7.2	51
16	Compression and Sonic Tests to Assess Effectiveness of Grout Injection on Three-Leaf Stone Masonry Walls. International Journal of Architectural Heritage, 2014, 8, 408-435.	3.1	45
17	Calibration of sonic pulse velocity tests for detection of variable conditions in masonry walls. Construction and Building Materials, 2018, 192, 272-286.	7.2	44
18	Flexural strengthening of timber beams by traditional and innovative techniques. Journal of Building Appraisal, 2007, 3, 125-143.	0.4	41

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19	Analytical and numerical modeling of composite-to-brick bond. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1987-2003.	3.1	41
20	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
21	Strengthening of masonry arches with Textile-Reinforced Mortar: experimental behaviour and analytical approaches. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 2067-2080.	3.1	32
22	Effect of thermal ageing and salt decay on bond between FRP and masonry. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 2051-2065.	3.1	29
23	Seismic response of masonry buildings in historical centres struck by the 2016 Central Italy earthquake. Calibration of a vulnerability model for strengthened conditions. <i>Construction and Building Materials</i> , 2021, 299, 123911.	7.2	27
24	Nested Buildings: An Innovative Strategy for the Integrated Seismic and Energy Retrofit of Existing Masonry Buildings with CLT Panels. <i>Sustainability</i> , 2021, 13, 1188.	3.2	26
25	Non-destructive investigations for structural qualification of the Sarno Baths, Pompeii. <i>Journal of Cultural Heritage</i> , 2019, 40, 280-287.	3.3	22
26	A Multilevel Procedure at Urban Scale to Assess the Vulnerability and the Exposure of Residential Masonry Buildings: The Case Study of Pordenone, Northeast Italy. <i>Heritage</i> , 2020, 3, 1433-1468.	1.9	22
27	Experimental Assessment of Bond Behaviour of Fibre-Reinforced Polymers on Brick Masonry. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2010, 20, 392-399.	0.8	19
28	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
29	Analytical investigation of timber beams strengthened with composite materials. <i>Construction and Building Materials</i> , 2018, 191, 1242-1251.	7.2	19
30	Seismic Response of Masonry Buildings in Historical Centres Struck by the 2016 Central Italy Earthquake. Impact of Building Features on Damage Evaluation. <i>International Journal of Architectural Heritage</i> , 2022, 16, 1859-1884.	3.1	19
31	Understanding of historical masonry for conservation approaches: the contribution of Prof. Luigia Binda to research advancement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	3.1	18
32	Protection of Cultural Heritage Buildings and Artistic Assets from Seismic Hazard: A Hierarchical Approach. <i>Sustainability</i> , 2020, 12, 1608.	3.2	18
33	Seismic vulnerability assessment of free-standing massive masonry columns by the 3D Discrete Element Method. <i>Engineering Structures</i> , 2021, 246, 113004.	5.3	16
34	Structural investigations and analyses for the conservation of the "Arsenale" of Venice. <i>Journal of Cultural Heritage</i> , 2002, 3, 65-71.	3.3	15
35	Experimental Characterization of Timber Floors Strengthened by in-Plane Improvement Techniques. <i>Advanced Materials Research</i> , 0, 778, 682-689.	0.3	15
36	Multi-scale characterization of moisture and thermal cycle effects on composite-to-timber strengthening. <i>Construction and Building Materials</i> , 2016, 102, 1070-1083.	7.2	14

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37	On-Site Pull-Out Tests of Steel Anchor Spikes Applied to Brickwork Masonry. <i>Key Engineering Materials</i> , 2014, 624, 266-274.	0.4	13
38	Operational modal analysis for the characterization of ancient water towers in Pompeii. <i>Procedia Engineering</i> , 2017, 199, 3374-3379.	1.2	13
39	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
40	Experimental Study of the Bond of FRP Applied to Natural Stones and Masonry Prisms. <i>Key Engineering Materials</i> , 2014, 624, 453-460.	0.4	10
41	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
42	Intervention Strategies for the Seismic Improvement of Masonry Buildings Based on FME Validation: The Case of a Terraced Building Struck by the 2016 Central Italy Earthquake. <i>Buildings</i> , 2021, 11, 404.	3.1	10
43	Strengthening of Stone and Brick Masonry Buildings. <i>Building Pathology and Rehabilitation</i> , 2018, , 59-84.	0.2	10
44	Influence of Salt Crystallization on Composites-to-Masonry Bond Evaluated on Site by Pull-Off Tests. <i>Key Engineering Materials</i> , 0, 624, 338-345.	0.4	9
45	Vulnerability of Architectural Heritage in Seismic Areas: Constructive Aspects and Effect of Interventions. <i>Lecture Notes in Civil Engineering</i> , 2019, , 203-218.	0.4	9
46	Assigning the macroseismic vulnerability classes to strengthened ordinary masonry buildings: An update from extensive data of the 2016 Central Italy earthquake. <i>International Journal of Disaster Risk Reduction</i> , 2021, 62, 102318.	3.9	9
47	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
48	Anchorage strength models for end-debonding predictions in RC beams strengthened with FRP composites. <i>Mechanics of Composite Materials</i> , 2008, 44, 257-268.	1.4	7
49	2016 Central Italy Earthquakes Recorded by Low-Cost MEMS-Distributed Arrays. <i>Seismological Research Letters</i> , 2019, 90, 672-682.	1.9	7
50	A New Methodology for the Survey and Evaluation of Seismic Damage and Vulnerability Entailed by Structural Interventions on Masonry Buildings: Validation on the Town of Castelsantangelo sul Nera (MC), Italy. <i>International Journal of Architectural Heritage</i> , 2020, , 1-26.	3.1	7
51	Empirical Performance Levels of Strengthened Masonry Buildings Struck by the 2016 Central Italy Earthquake: Proposal of a New Taxonomy. <i>International Journal of Architectural Heritage</i> , 2023, 17, 1017-1042.	3.1	7
52	Evaluation of the structural behaviour of historic masonry buildings by using a sonic pulse velocity method. <i>WIT Transactions on the Built Environment</i> , 2007, , .	0.0	6
53	The Engineering Approach to Conservation of Massive Archaeological Structures in Seismic Areas: The Apollo Nymphaeum in Hierapolis of Phrygia. <i>International Journal of Architectural Heritage</i> , 2023, 17, 1590-1606.	3.1	5
54	Probabilistic damage evolution in masonry strengthened with FRCM subjected to aggressive environment. <i>Construction and Building Materials</i> , 2020, 239, 117718.	7.2	4

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55	Numerical Prediction of the Seismic Behavior of Reassembled Columns in Ancient Structures: An Anastylis Model for the Temple of Apollo Pythios in Gortyn (Crete). <i>Heritage</i> , 2021, 4, 3421-3441.	1.9	4
56	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
57	Calibration of the dynamic behaviour of incomplete structures in archeological sites: the case of Villa Diomede portico in Pompeii. <i>Procedia Engineering</i> , 2017, 199, 3368-3373.	1.2	3
58	Masonry. , 2006, , 137-156.		3
59	An Automatic Algorithm for the Execution and Elaboration of Sonic Pulse Velocity Tests in Direct and Tomographic Arrangements. <i>RILEM Bookseries</i> , 2019, , 716-724.	0.4	3
60	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
61	Moisture and Temperature Influence on Biocomposites-to-Timber Bonding. <i>Advanced Materials Research</i> , 2013, 778, 561-568.	0.3	2
62	Structural Investigations and Modelling of Seismic Behaviour on Ruins in the Monumental Area of Hierapolis of Phrygia. <i>RILEM Bookseries</i> , 2019, , 1849-1857.	0.4	2
63	Repair and conservation of masonry structures. , 2019, , 201-235.		2
64	Equivalent Frame Modelling of an Unreinforced Masonry Building in Finite Element Environment. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 2006-2021.	0.4	2
65	Multilevel Assessment of Seismic Damage and Vulnerability of Masonry Buildings (MUSE-DV) in Historical Centers: Development of a Mobile Android Application. <i>Sustainability</i> , 2022, 14, 7145.	3.2	2
66	Strengthening of RC beams with an innovative timber-FRP composite system. <i>Mechanics of Composite Materials</i> , 2008, 44, 279-288.	1.4	1
67	Mechanical Analysis for the Assessment of the Seismic Capacity of Masonry Buildings' Classes in the City Centre of Sulmona (Italy). <i>Advanced Materials Research</i> , 2010, 133-134, 623-628.	0.3	1
68	Optimization of Mechanical and Acoustic Performance of Timber Floors. <i>Advanced Materials Research</i> , 2013, 778, 690-697.	0.3	1
69	FINITE ELEMENT MICRO-MODELING FOR THE CHARACTERIZATION OF INCLINED HEAD JOINTS ARCHAEOLOGICAL MASONRY: THE CASE OF VILLA DIOMEDE IN POMPEII. , 2017, , .		1
70	Investigations On Historic Centers In Seismic Areas: Guidelines For The Diagnosis. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
71	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
72	Integration of Finite Element and Graphic Methods in the Study of the Government Complex in Caesarea Maritima (IL). <i>RILEM Bookseries</i> , 2019, , 1807-1815.	0.4	0

#	ARTICLE	IF	CITATIONS
73	El proyecto y la intervenci3n en el campanario de la catedral de Monza, Italia. Loggia, Arquitectura & Restauraci3n, 2010, , 122.	0.1	0