Maria Rosa Valluzzi

List of Publications by Year
in descending order

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	Empirical Performance Levels of Strengthened Masonry Buildings Struck by the 2016 Central Italy Earthquake: Proposal of a New Taxonomy. International Journal of Architectural Heritage, 2023, 17, 1017-1042.	3.1	7
2	The Engineering Approach to Conservation of Massive Archaeological Structures in Seismic Areas: The Apollo Nymphaeum in Hierapolis of Phrygia. International Journal of Architectural Heritage, 2023, 17, 1590-1606.	3.1	5
3	Seismic Response of Masonry Buildings in Historical Centres Struck by the 2016 Central Italy Earthquake. Impact of Building Features on Damage Evaluation. International Journal of Architectural Heritage, 2022, 16, 1859-1884.	3.1	19
4	Multilevel Assessment of Seismic Damage and Vulnerability of Masonry Buildings (MUSE-DV) in Historical Centers: Development of a Mobile Android Application. Sustainability, 2022, 14, 7145.	3.2	2
5	Assigning the macroseismic vulnerability classes to strengthened ordinary masonry buildings: An update from extensive data of the 2016 Central Italy earthquake. International Journal of Disaster Risk Reduction, 2021, 62, 102318.	3.9	9
6	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. Buildings, 2021, 11, 404.	3.1	10
7	Seismic response of masonry buildings in historical centres struck by the 2016 Central Italy earthquake. Calibration of a vulnerability model for strengthened conditions. Construction and Building Materials, 2021, 299, 123911.	7.2	27
8	Seismic vulnerability assessment of free-standing massive masonry columns by the 3D Discrete Element Method. Engineering Structures, 2021, 246, 113004.	5.3	16
9	Nested Buildings: An Innovative Strategy for the Integrated Seismic and Energy Retrofit of Existing Masonry Buildings with CLT Panels. Sustainability, 2021, 13, 1188.	3.2	26
10	Numerical Prediction of the Seismic Behavior of Reassembled Columns in Ancient Structures: An Anastylosis Model for the Temple of Apollo Pythios in Gortyn (Crete). Heritage, 2021, 4, 3421-3441.	1.9	4
11	Probabilistic damage evolution in masonry strengthened with FRCM subjected to aggressive environment. Construction and Building Materials, 2020, 239, 117718.	7.2	4
12	A Multilevel Procedure at Urban Scale to Assess the Vulnerability and the Exposure of Residential Masonry Buildings: The Case Study of Pordenone, Northeast Italy. Heritage, 2020, 3, 1433-1468.	1.9	22
13	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. International Journal of Architectural Heritage, 2020, , 1-26.	3.1	7
14	Protection of Cultural Heritage Buildings and Artistic Assets from Seismic Hazard: A Hierarchical Approach. Sustainability, 2020, 12, 1608.	3.2	18
15	Equivalent Frame Modelling of an Unreinforced Masonry Building in Finite Element Environment. Lecture Notes in Mechanical Engineering, 2020, , 2006-2021.	0.4	2
16	Integration of Finite Element and Graphic Methods in the Study of the Government Complex in Caesarea Maritima (IL). RILEM Bookseries, 2019, , 1807-1815.	0.4	0
17	Structural Investigations and Modelling of Seismic Behaviour on Ruins in the Monumental Area of Hierapolis of Phrygia. RILEM Bookseries, 2019, , 1849-1857.	0.4	2
18	Repair and conservation of masonry structures. , 2019, , 201-235.		2

#	Article	IF	Citations
19	Non-destructive investigations for structural qualification of the Sarno Baths, Pompeii. Journal of Cultural Heritage, 2019, 40, 280-287.	3.3	22
20	2016 Central Italy Earthquakes Recorded by Lowâ€Cost MEMSâ€Distributed Arrays. Seismological Research Letters, 2019, 90, 672-682.	1.9	7
21	Vulnerability of Architectural Heritage in Seismic Areas: Constructive Aspects and Effect of Interventions. Lecture Notes in Civil Engineering, 2019, , 203-218.	0.4	9
22	An Automatic Algorithm for the Execution and Elaboration of Sonic Pulse Velocity Tests in Direct and Tomographic Arrangements. RILEM Bookseries, 2019, , 716-724.	0.4	3
23	A Bayesian approach to rapid seismic vulnerability assessment at urban scale. International Journal of Architectural Heritage, 2018, 12, 36-46.	3.1	10
24	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
25	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.	3.1	8
26	Analytical investigation of timber beams strengthened with composite materials. Construction and Building Materials, 2018, 191, 1242-1251.	7.2	19
27	Understanding of historical masonry for conservation approaches: the contribution of Prof. Luigia Binda to research advancement. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	18
28	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
29	Strengthening of Stone and Brick Masonry Buildings. Building Pathology and Rehabilitation, 2018, , 59-84.	0.2	10
30	Geopolymer matrix for fibre reinforced composites aimed at strengthening masonry structures. Construction and Building Materials, 2017, 141, 542-552.	7.2	51
31	Calibration of the dynamic behaviour of incomplete structures in archeological sites: the case of Villa Diomede portico in Pompeii. Procedia Engineering, 2017, 199, 3368-3373.	1.2	3
32	Operational modal analysis for the characterization of ancient water towers in Pompeii. Procedia Engineering, 2017, 199, 3374-3379.	1.2	13
33	Out-of-plane shake-table tests of strengthened multi-leaf stone masonry walls. Bulletin of Earthquake Engineering, 2017, 15, 4299-4317.	4.1	34
34	Round Robin Test on tensile and bond behaviour of Steel Reinforced Grout systems. Composites Part B: Engineering, 2017, 127, 100-120.	12.0	155
35	FINITE ELEMENT MICRO-MODELING FOR THE CHARACTERIZATION OF INCLINED HEAD JOINTS ARCHAEOLOGICAL MASONRY: THE CASE OF VILLA DIOMEDE IN POMPEII. , 2017, , .		1
36	Multi-scale characterization of moisture and thermal cycle effects on composite-to-timber strengthening. Construction and Building Materials, 2016, 102, 1070-1083.	7.2	14

#	Article	IF	Citations
37	Experimental characterization of composite-to-brick masonry shear bond. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2581-2596.	3.1	67
38	Effect of thermal ageing and salt decay on bond between FRP and masonry. Materials and Structures/Materiaux Et Constructions, 2014, 47, 2051-2065.	3.1	29
39	Current practice and open issues in strengthening historical buildings with composites. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1971-1985.	3.1	132
40	Experimental Study of the Bond of FRP Applied to Natural Stones and Masonry Prisms. Key Engineering Materials, 2014, 624, 453-460.	0.4	10
41	On-Site Pull-Out Tests of Steel Anchor Spikes Applied to Brickwork Masonry. Key Engineering Materials, 2014, 624, 266-274.	0.4	13
42	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
43	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
44	Analytical and numerical modeling of composite-to-brick bond. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1987-2003.	3.1	41
45	Strengthening of masonry arches with Textile-Reinforced Mortar: experimental behaviour and analytical approaches. Materials and Structures/Materiaux Et Constructions, 2014, 47, 2067-2080.	3.1	32
46	Calibration of analytical formulations predicting compressive strength in consolidated three-leaf masonry walls. Construction and Building Materials, 2014, 64, 28-38.	7.2	19
47	Moisture and Temperature Influence on Biocomposites-to-Timber Bonding. Advanced Materials Research, 2013, 778, 561-568.	0.3	2
48	Optimization of Mechanical and Acoustic Performance of Timber Floors. Advanced Materials Research, 2013, 778, 690-697.	0.3	1
49	Round Robin Test for composite-to-brick shear bond characterization. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1761-1791.	3.1	172
50	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
51	Experimental Assessment of Bond Behaviour of Fibre-Reinforced Polymers on Brick Masonry. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2010, 20, 392-399.	0.8	19
52	Mechanical Analysis for the Assessment of the Seismic Capacity of Masonry Buildingsâ€™ Classes in the City Centre of Sulmona (Italy). Advanced Materials Research, 2010, 133-134, 623-628.	0.3	1
53	Seismic Vulnerability of Historical Structures: Damage State of the Abruzzo (Italy) Churches in the Sequence of the April 2009 Earthquake. Advanced Materials Research, 2010, 133-134, 765-770.	0.3	3
54	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

#	Article	IF	Citations
55	Shaking Table Tests on Multi-Leaf Stone Masonry Structures: Analysis of Stiffness Decay. Advanced Materials Research, 2010, 133-134, 647-652.	0.3	12
56	Settlement Induced Damage Modelling of Historical Buildings: The Bell Tower of the â€œBasilica dei Frariâ€•in Venice. Advanced Materials Research, 2010, 133-134, 561-566.	0.3	2
57	El proyecto y la intervenciÃ³n en el campanario de la catedral de Monza, Italia. Loggia, Arquitectura & RestauraciÃ³n, 2010, , 122.	0.1	0
58	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
59	Anchorage strength models for end-debonding predictions in RC beams strengthened with FRP composites. Mechanics of Composite Materials, 2008, 44, 257-268.	1.4	7
60	Strengthening of RC beams with an innovative timber-FRP composite system. Mechanics of Composite Materials, 2008, 44, 279-288.	1.4	1
61	Investigations On Historic Centers In Seismic Areas: Guidelines For The Diagnosis. AIP Conference Proceedings, 2008, , .	0.4	0
62	Flexural strengthening of timber beams by traditional and innovative techniques. Journal of Building Appraisal, 2007, 3, 125-143.	0.4	41
63	On the vulnerability of historical masonry structures: analysis and mitigation. Materials and Structures/Materiaux Et Constructions, 2007, 40, 723-743.	3.1	71
64	Evaluation of the structural behaviour of historic masonry buildings by using a sonic pulse velocity method. WIT Transactions on the Built Environment, 2007, , .	0.0	6
65	Flexural and shear strengthening of un-reinforced masonry with FRP bars. Composites Science and Technology, 2006, 66, 289-296.	7.8	70
66	Masonry. , 2006, , 137-156.		3
67	Mechanical behaviour of historic masonry structures strengthened by bed joints structural repointing. Construction and Building Materials, 2005, 19, 63-73.	7.2	125
68	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
69	Shear behavior of masonry panels strengthened by FRP laminates. Construction and Building Materials, 2002, 16, 409-416.	7.2	199
70	Structural investigations and analyses for the conservation of the â€˜Arsenaleâ€™ of Venice. Journal of Cultural Heritage, 2002, 3, 65-71.	3.3	15
71	Behavior of Brick Masonry Vaults Strengthened by FRP Laminates. Journal of Composites for Construction, 2001, 5, 163-169.	3.2	160
72	Experimental Characterization of Timber Floors Strengthened by in-Plane Improvement Techniques. Advanced Materials Research, 0, 778, 682-689.	0.3	15

#	Article	IF	Citations
73	Influence of Salt Crystallization on Composites-to-Masonry Bond Evaluated on Site by Pull-Off Tests. Key Engineering Materials, 0, 624, 338-345.	0.4	9