

Serena Cattari

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,882
citations

218677

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182427

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87
all docs

87
docs citations

87
times ranked

1161
citing authors

#	ARTICLE	IF	CITATIONS
1	TREMURI program: An equivalent frame model for the nonlinear seismic analysis of masonry buildings. <i>Engineering Structures</i> , 2013, 56, 1787-1799.	5.3	478
2	Modeling Strategies for the Computational Analysis of Unreinforced Masonry Structures: Review and Classification. <i>Archives of Computational Methods in Engineering</i> , 2020, 27, 1153-1185.	10.2	245
3	PERPETUATE guidelines for seismic performance-based assessment of cultural heritage masonry structures. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 13-47.	4.1	198
4	Seismic behaviour of ordinary masonry buildings during the 2016 central Italy earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 5583-5607.	4.1	161
5	In-plane strength of unreinforced masonry piers. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 243-267.	4.4	137
6	The use of the diagonal compression test to identify the shear mechanical parameters of masonry. <i>Construction and Building Materials</i> , 2010, 24, 677-685.	7.2	99
7	The heuristic vulnerability model: fragility curves for masonry buildings. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 3129-3163.	4.1	88
8	Acquiring reference parameters of masonry for the structural performance analysis of historical buildings. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 203-236.	4.1	82
9	Damage assessment of fortresses after the 2012 Emilia earthquake (Italy). <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 2333-2365.	4.1	80
10	Numerical simulation of the seismic response and soil-structure interaction for a monitored masonry school building damaged by the 2016 Central Italy earthquake. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 1181-1211.	4.1	68
11	Seismic assessment of interacting structural units in complex historic masonry constructions by nonlinear static analyses. <i>Computers and Structures</i> , 2019, 213, 51-71.	4.4	63
12	A hysteretic model for masonry walls in Pombalino buildings. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 1481-1502.	4.1	56
13	Masonry Italian Code-Conforming Buildings. Part 2: Nonlinear Modelling and Time-History Analysis. <i>Journal of Earthquake Engineering</i> , 2018, 22, 2010-2040.	2.5	54
14	Comparative analysis of the fragility curves for Italian residential masonry and RC buildings. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 3209-3252.	4.1	47
15	Fragility Functions of Masonry Buildings. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 111-156.	0.2	45
16	Fragility curves for old masonry building types in Lisbon. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 3083-3105.	4.1	44
17	PERPETUATE Project: The Proposal of a Performance-Based Approach to Earthquake Protection of Cultural Heritage. <i>Advanced Materials Research</i> , 2010, 133-134, 1119-1124.	0.3	40
18	Seismic Performance of Historical Masonry Structures Through Pushover and Nonlinear Dynamic Analyses. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015, , 265-292.	0.2	38

#	ARTICLE	IF	CITATIONS
19	Seismic assessment of mixed masonry-reinforced concrete buildings by non-linear static analyses. <i>Earthquake and Structures</i> , 2013, 4, 241-264.	1.0	38
20	Nonlinear modeling of the seismic response of masonry structures: critical review and open issues towards engineering practice. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 1939-1997.	4.1	37
21	Benchmarking the seismic assessment of unreinforced masonry buildings from a blind prediction test. <i>Structures</i> , 2021, 31, 982-1005.	3.6	35
22	Benchmarking the software packages to model and assess the seismic response of unreinforced masonry existing buildings through nonlinear static analyses. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 1901-1936.	4.1	32
23	Seismic fragility assessment of existing masonry buildings in aggregate. <i>Engineering Structures</i> , 2021, 247, 113218.	5.3	32
24	Sensitivity analysis for setting up the investigation protocol and defining proper confidence factors for masonry buildings. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 129-151.	4.1	31
25	Classification of cultural heritage assets and seismic damage variables for the identification of performance levels. <i>WIT Transactions on the Built Environment</i> , 2011, , .	0.0	28
26	Seismic performance-based assessment of "Gaioleiro" buildings. <i>Engineering Structures</i> , 2014, 80, 486-500.	5.3	27
27	Performance-based assessment of the Great Mosque of Algiers. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 369-388.	4.1	26
28	Are the nonlinear static procedures feasible for the seismic assessment of irregular existing masonry buildings?. <i>Engineering Structures</i> , 2019, 200, 109700.	5.3	26
29	A comparative study on a complex URM building: part I – sensitivity of the seismic response to different modelling options in the equivalent frame models. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 2115-2158.	4.1	24
30	On the seismic response of buildings in aggregate: Analysis of a typical masonry building from Azores. <i>Structures</i> , 2017, 10, 184-196.	3.6	23
31	Earthquake damage assessment of masonry churches: proposal for rapid and detailed forms and derivation of empirical vulnerability curves. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 3327-3364.	4.1	21
32	Definition of fragility curves through nonlinear static analyses: procedure and application to a mixed masonry-RC building stock. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 513-545.	4.1	21
33	A review of numerical models for masonry structures. , 2019, , 3-53.		20
34	Seismic assessment of nineteenth and twentieth centuries URM buildings in Lisbon: structural features and derivation of fragility curves. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 645-672.	4.1	20
35	Modernist Unreinforced Masonry (URM) Buildings of Barcelona: Seismic Vulnerability and Risk Assessment. <i>International Journal of Architectural Heritage</i> , 2015, 9, 214-230.	3.1	19
36	Masonry Italian Code-Conforming Buildings. Part 1: Case Studies and Design Methods. <i>Journal of Earthquake Engineering</i> , 2018, 22, 54-73.	2.5	19

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37	Modelling and Seismic Response Analysis of Existing URM Structures. Part 2: Archetypes of Italian Historical Buildings. <i>Journal of Earthquake Engineering</i> , 2023, 27, 1849-1874.	2.5	19
38	A methodological framework to relate the earthquake-induced frequency reduction to structural damage in masonry buildings. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 4603-4638.	4.1	17
39	Vulnerability assessment of Hassan Beyâ€™s Mansion in Rhodes. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 347-368.	4.1	16
40	Dynamic calibration and seismic validation of numerical models of URM buildings through permanent monitoring data. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 2690-2711.	4.4	16
41	On the use of continuum Finite Element and Equivalent Frame models for the seismic assessment of masonry walls. <i>Journal of Building Engineering</i> , 2021, 43, 102519.	3.4	16
42	Post-earthquake Damage Simulation of Two Colonial Unreinforced Clay Brick Masonry Buildings Using the Equivalent Frame Approach. <i>Structures</i> , 2019, 19, 212-226.	3.6	14
43	Site effects and soil-foundation-structure interaction: derivation of fragility curves and comparison with Codes-conforming approaches for a masonry school. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 154, 107125.	3.8	14
44	Seismic assessment and retrofitting of Pombalino buildings by pushover analyses. <i>Earthquake and Structures</i> , 2014, 7, 57-82.	1.0	13
45	On the reliability of the equivalent frame models: the case study of the permanently monitored Pizzoliâ€™s town hall. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 2187-2217.	4.1	13
46	Pombalino Constructions: Description and Seismic Assessment. <i>Building Pathology and Rehabilitation</i> , 2014, , 187-233.	0.2	13
47	Comparing the Observed and Numerically Simulated Seismic Damage: A Unified Procedure for Unreinforced Masonry and Reinforced Concrete Buildings. <i>Journal of Earthquake Engineering</i> , 2024, 28, 1157-1193.	2.5	13
48	Performance of Fiber Reinforced Mortar coating for irregular stone masonry: Experimental and analytical investigations. <i>Construction and Building Materials</i> , 2021, 294, 123508.	7.2	12
49	DISCUSSION ON DATA RECORDED BY THE ITALIAN STRUCTURAL SEISMIC MONITORING NETWORK ON THREE MASONRY STRUCTURES HIT BY THE 2016-2017 CENTRAL ITALY EARTHQUAKE. , 2019, , .		12
50	Cultural Heritage Monuments and Historical Buildings: Conservation Works and Structural Retrofitting. <i>Building Pathology and Rehabilitation</i> , 2018, , 25-57.	0.2	10
51	Use of the model parameter sensitivity analysis for the probabilistic-based seismic assessment of existing buildings. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 1983-2009.	4.1	10
52	Equivalent frame idealization of walls with irregular openings in masonry buildings. <i>Engineering Structures</i> , 2022, 256, 114055.	5.3	10
53	Sensitivity analysis of the seismic performance of ancient mixed masonry-RC buildings in Lisbon. <i>International Journal of Masonry Research and Innovation</i> , 2018, 3, 108.	0.4	9
54	Ambient vibration tools to validate the rigid diaphragm assumption in the seismic assessment of buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 194-211.	4.4	9

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55	Displacement-Based Simplified Seismic Loss Assessment of Masonry Buildings. <i>Journal of Earthquake Engineering</i> , 2020, 24, 23-59.	2.5	9
56	Validation of displacement-based procedures for rocking assessment of cantilever masonry elements. <i>Structures</i> , 2021, 33, 3397-3416.	3.6	9
57	Fragility Functions for Tall URM Buildings around Early 20th Century in Lisbon. Part 1: Methodology and Application at Building Level. <i>International Journal of Architectural Heritage</i> , 2021, 15, 349-372.	3.1	7
58	Fragility Functions for Tall URM Buildings around Early 20th Century in Lisbon, Part 2: Application to Different Classes of Buildings. <i>International Journal of Architectural Heritage</i> , 2021, 15, 373-389.	3.1	7
59	Linear static procedures for the seismic assessment of masonry buildings: Open issues in the new generation of European codes. <i>Structures</i> , 2020, 26, 427-440.	3.6	7
60	Investigating the combined role of the structural vulnerability and site effects on the seismic response of a URM school hit by the Central Italy 2016 earthquake. <i>Structures</i> , 2022, 40, 386-402.	3.6	7
61	Numerical Investigations On The Seismic Behaviour Of Confined Masonry Walls. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	6
62	Seismic Behavior of Lisbon Mixed Masonry-RC Buildings With Historical Value: A Contribution for the Practical Assessment. <i>Frontiers in Built Environment</i> , 2018, 4, .	2.3	6
63	Seismic Assessment of Existing Irregular Masonry Buildings by Nonlinear Static and Dynamic Analyses. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2018, , 123-151.	0.2	6
64	Modelling and Seismic Response Analysis of Existing URM Structures. Part: Archetypes of Italian Modern Buildings. <i>Journal of Earthquake Engineering</i> , 2024, 28, 1130-1156.	2.5	6
65	The Case Study of Santa Maria Paganica Church Damaged by 2009 L'Aquila Earthquake. <i>Advanced Materials Research</i> , 2010, 133-134, 163-168.	0.3	5
66	A Methodology for Approaching the Reconstruction of Historical Centres Heavily Damaged by 2009 L'Aquila Earthquake. <i>Advanced Materials Research</i> , 2010, 133-134, 1113-1118.	0.3	5
67	3D GIS representation for supporting seismic mitigation policies at urban scale: The case study of Lisbon. <i>Journal of Cultural Heritage</i> , 2020, 45, 265-278.	3.3	5
68	A Seismic Loss Assessment Procedure for Masonry Buildings. , 2015, , .		4
69	Integration of Modelling Approaches for the Seismic Assessment of Complex URM Buildings: The Podesta' Palace in Mantua, Italy. <i>Buildings</i> , 2021, 11, 269.	3.1	4
70	Sensitivity and Preliminary Analyses for the Seismic Assessment of Ardinghelli Palace. <i>RILEM Bookseries</i> , 2019, , 2412-2421.	0.4	4
71	Seismic Out-of-Plane Assessment of Podesta' Palace in Mantua (Italy). <i>Key Engineering Materials</i> , 2014, 624, 88-96.	0.4	3
72	RINTC PROJECT: NONLINEAR DYNAMIC ANALYSES OF ITALIAN CODE-CONFORMING URM BUILDINGS FOR COLLAPSE RISK ASSESSMENT. , 2017, , .		3

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73	ON THE SOIL-STRUCTURE INTERACTION IN THE SEISMIC RESPONSE OF A MONITORED MASONRY SCHOOL BUILDING STRUCK BY THE 2016-2017 CENTRAL ITALY EARTHQUAKE. , 2019, , .		3
74	Buildings Behaviour in Urban Fabric: The Safety Assessment Issue in the Post Earthquake Reconstruction Plans. Key Engineering Materials, 2014, 628, 96-101.	0.4	2
75	SEISMIC ASSESSMENT OF COMPLEX ASSETS THROUGH NONLINEAR STATIC ANALYSES: THE FORTRESS IN SAN FELICE SUL PANARO HIT BY THE 2012 EARTHQUAKE IN ITALY. , 2017, , .		2
76	An Analytical Mechanical Model for the Seismic Assessment of Bell Towers. Key Engineering Materials, 0, 624, 97-105.	0.4	1
77	Displacement-Based Assessment of Cantilever Masonry Elements under Out-of-Plane Actions. , 2015, , .		0
78	Seismic Performance Based Assessment of the Arsenal de Milly of the Medieval City of Rhodes. Computational Methods in Applied Sciences (Springer), 2015, , 365-392.	0.3	0
79	Performance-based assessment of masonry churches: application to San Clemente Abbey in Castiglione a Casauria (Italy). , 2019, , 55-89.		0
80	Sensitivity analysis of the seismic performance of ancient mixed masonry-RC buildings in Lisbon. International Journal of Masonry Research and Innovation, 2018, 3, 108.	0.4	0