

Siro Casolo

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,326
citations

331670

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345221

36
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47
all docs

47
docs citations

47
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative seismic vulnerability analysis on ten masonry towers in the coastal Po Valley in Italy. <i>Engineering Structures</i> , 2013, 49, 465-490.	5.3	121
2	Seismic Assessment of a Medieval Masonry Tower in Northern Italy by Limit, Nonlinear Static, and Full Dynamic Analyses. <i>International Journal of Architectural Heritage</i> , 2012, 6, 489-524.	3.1	98
3	Rigid element model for in-plane dynamics of masonry walls considering hysteretic behaviour and damage. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 1029-1048.	4.4	92
4	Modelling in-plane micro-structure of masonry walls by rigid elements. <i>International Journal of Solids and Structures</i> , 2004, 41, 3625-3641.	2.7	80
5	Macroscopic modelling of structured materials: Relationship between orthotropic Cosserat continuum and rigid elements. <i>International Journal of Solids and Structures</i> , 2006, 43, 475-496.	2.7	77
6	A bond-based micropolar peridynamic model with shear deformability: Elasticity, failure properties and initial yield domains. <i>International Journal of Solids and Structures</i> , 2019, 160, 201-231.	2.7	76
7	Simplified out-of-plane modelling of three-leaf masonry walls accounting for the material texture. <i>Construction and Building Materials</i> , 2013, 40, 330-351.	7.2	60
8	A simplified homogenization-discrete element model for the non-linear static analysis of masonry walls out-of-plane loaded. <i>Engineering Structures</i> , 2010, 32, 2352-2366.	5.3	57
9	Influence of soil deformability on the seismic response of a masonry tower. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1991-2014.	4.1	56
10	Seismic analysis and strengthening design of a masonry monument by a rigid body spring model: The "Maniace Castle" of Syracuse. <i>Engineering Structures</i> , 2009, 31, 1447-1459.	5.3	52
11	A THREE-DIMENSIONAL MODEL FOR VULNERABILITY ANALYSIS OF SLENDER MEDIEVAL MASONRY TOWERS. <i>Journal of Earthquake Engineering</i> , 1998, 2, 487-512.	2.5	46
12	Modelling the out-of-plane seismic behaviour of masonry walls by rigid elements. <i>Earthquake Engineering and Structural Dynamics</i> , 2000, 29, 1797-1813.	4.4	44
13	Nonlinear analysis of out-of-plane masonry façades: full dynamic versus pushover methods by rigid body and spring model. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 499-521.	4.4	44
14	ANTAEUS Project for the Regional Vulnerability Assessment of the Current Building Stock in Historical Centers. <i>International Journal of Architectural Heritage</i> , 2016, 10, 20-43.	3.1	41
15	Macroscale modelling of microstructure damage evolution by a rigid body and spring model. <i>Journal of Mechanics of Materials and Structures</i> , 2009, 4, 551-570.	0.6	40
16	A full orthotropic micropolar peridynamic formulation for linearly elastic solids. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 140-155.	6.7	38
17	A numerical study on the cumulative out-of-plane damage to church masonry façades due to a sequence of strong ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 2717-2737.	4.4	34
18	Homogenization towards a mechanistic Rigid Body and Spring Model (HRBSM) for the non-linear dynamic analysis of 3D masonry structures. <i>Meccanica</i> , 2018, 53, 1819-1855.	2.0	34

#	ARTICLE	IF	CITATIONS
19	Rigid element model for non-linear analysis of masonry façades subjected to out-of-plane loading. Communications in Numerical Methods in Engineering, 1999, 15, 457-468.	1.3	27
20	Kinematic collapse load calculator: Circular arches. SoftwareX, 2018, 7, 174-179.	2.6	25
21	Analysis of Seismic Damage Patterns in Old Masonry Church Facades. Earthquake Spectra, 2000, 16, 757-773.	3.1	23
22	SIGNIFICANT GROUND MOTION PARAMETERS FOR EVALUATION OF THE SEISMIC PERFORMANCE OF SLENDER MASONRY TOWERS. Journal of Earthquake Engineering, 2001, 5, 187-204.	2.5	19
23	Modelling laminated glass beam failure via stochastic rigid body-spring model and bond-based peridynamics. Engineering Fracture Mechanics, 2018, 190, 331-346.	4.3	19
24	Seismic response of a masonry church in Central Italy: the role of interventions on the roof. Bulletin of Earthquake Engineering, 2021, 19, 1151-1179.	4.1	19
25	Testing masonry blockwork panels for orthotropic shear strength. Construction and Building Materials, 2019, 214, 74-92.	7.2	17
26	Bond-based peridynamic modelling of singular and nonsingular crack-tip fields. Meccanica, 2018, 53, 3495-3515.	2.0	14
27	Modelling the response of a laminated tempered glass for different configurations of damage by a rigid body spring model. Engineering Fracture Mechanics, 2019, 218, 106596.	4.3	11
28	Title is missing!. Journal of Earthquake Engineering, 2001, 5, 187.	2.5	9
29	Estimating laminated glass beam strength via stochastic Rigid Body-Spring Model. Composite Structures, 2017, 172, 61-72.	5.8	7
30	A linear-elastic heuristic-molecular modelling for plane isotropic micropolar and auxetic materials. International Journal of Solids and Structures, 2021, 224, 111042.	2.7	7
31	Seismic investigation on the cathedral of Syracuse by finite elements and by a specific rigid body and spring model. WIT Transactions on the Built Environment, 2007, , .	0.0	7
32	About the Reliability of Punching Verifications in Reinforced Concrete Flat Slabs. Open Construction and Building Technology Journal, 2013, 7, 74-87.	0.7	5
33	Macroscale modelling of the orthotropic shear damage in the dynamics of masonry towers by RBSM. Engineering Failure Analysis, 2021, 130, 105744.	4.0	4
34	Maniace Castle in Syracuse, Italy: Comparison Between Present Structural Situation and Hypothetical Original Configuration by Means of Full 3D FE Models. Open Civil Engineering Journal, 2012, 6, 173-187.	0.8	4
35	Non-linear dynamic analyses of 3D masonry structures by means of a homogenized rigid body and spring model (HRBSM). AIP Conference Proceedings, 2016, , .	0.4	3
36	Presentation and validation of a specific RBSM approach for the meso-scale modelling of in-plane masonry-infills in RC frames. International Journal of Masonry Research and Innovation, 2020, 5, 366.	0.4	3

#	ARTICLE	IF	CITATIONS
37	Spectral analysis of volcanic tremor associated with the 1993 paroxysmal events at Stromboli. Geological Society Special Publication, 1996, 110, 373-381.	1.3	2
38	Comparison between seismic retrofitting solutions for existing reinforced concrete buildings: a case study. International Journal of Structural Engineering, 2014, 5, 242.	0.4	2
39	NON-LINEAR DYNAMIC ANALYSIS OF MASONRY TOWERS UNDER NATURAL ACCELEROGRAMS ACCOUNTING FOR SOIL-STRUCTURE INTERACTION. , 2014, , .		2
40	Explicit Dynamic Analysis by a Rigid Body-Spring Model of Impact Loads of Artillery on Middle Age Fortifications. Buildings, 2021, 11, 607.	3.1	2
41	A specific out-of-plane model for the dynamic analysis of masonry façades and estimation of cumulative seismic damage. Procedia Structural Integrity, 2018, 11, 20-27.	0.8	1
42	AN ANALYTICAL APPROACH FOR ASSESSMENT OF THE EFFECTS OF INFILL PANELS IN RC FRAMES. , 2014, , .		1
43	HOMOGENIZED RIGID BODY AND SPRING MODEL (RBSM) FOR THE NON-LINEAR DYNAMIC ANALYSIS OF HISTORIC MASONRY CHURCH FACADES. , 2017, , .		1
44	A Multi-Level Approach for the Numerical Modelling of Complex Monumental Buildings. Advances in Civil and Industrial Engineering Book Series, 2015, , 546-575.	0.2	1
45	ANALYSIS OF DAMAGE DUE TO ARTILLERY STRIKES ON TWO TYPES OF FORTRESS TYPICAL OF THE MIDDLE AGES AND OF THE RENAISSANCE PERIODS. , 2019, , .		1
46	SEISMIC MODELLING AND ANALYSIS OF MASONRY BUILDING IN AGGREGATE: A CASE STUDY. , 2017, , .		0
47	A Full Orthotropic Bond-Based Peridynamic Formulation for Linearly Elastic Solids. Lecture Notes in Mechanical Engineering, 2020, , 1257-1280.	0.4	0