

Siro Casolo

List of Publications by Year in descending order

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47
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1,326
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docs citations

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times ranked

662
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Macroscale modelling of the orthotropic shear damage in the dynamics of masonry towers by RBSM. Engineering Failure Analysis, 2021, 130, 105744. | 4.0 | 4 |
| 4 | 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 |
| 5 | 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 |
| 6 | A Full Orthotropic Bond-Based Peridynamic Formulation for Linearly Elastic Solids. Lecture Notes in Mechanical Engineering, 2020, , 1257-1280. | 0.4 | 0 |
| 7 | 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 |
| 8 | A full orthotropic micropolar peridynamic formulation for linearly elastic solids. International Journal of Mechanical Sciences, 2019, 160, 140-155. | 6.7 | 38 |
| 9 | Testing masonry blockwork panels for orthotropic shear strength. Construction and Building Materials, 2019, 214, 74-92. | 7.2 | 17 |
| 10 | A bond-based micropolar peridynamic model with shear deformability: Elasticity, failure properties and initial yield domains. International Journal of Solids and Structures, 2019, 160, 201-231. | 2.7 | 76 |
| 11 | ANALYSIS OF DAMAGE DUE TO ARTILLERY STRIKES ON TWO TYPES OF FORTRESS TYPICAL OF THE MIDDLE AGES AND OF THE RENAISSANCE PERIODS. , 2019, , . | | 1 |
| 12 | 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 |
| 13 | Homogenization towards a mechanistic Rigid Body and Spring Model (HRBSM) for the non-linear dynamic analysis of 3D masonry structures. Meccanica, 2018, 53, 1819-1855. | 2.0 | 34 |
| 14 | 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 |
| 15 | Bond-based peridynamic modelling of singular and nonsingular crack-tip fields. Meccanica, 2018, 53, 3495-3515. | 2.0 | 14 |
| 16 | Kinematic collapse load calculator: Circular arches. SoftwareX, 2018, 7, 174-179. | 2.6 | 25 |
| 17 | Estimating laminated glass beam strength via stochastic Rigid Body-Spring Model. Composite Structures, 2017, 172, 61-72. | 5.8 | 7 |
| 18 | Influence of soil deformability on the seismic response of a masonry tower. Bulletin of Earthquake Engineering, 2017, 15, 1991-2014. | 4.1 | 56 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | HOMOGENIZED RIGID BODY AND SPRING MODEL (RBSM) FOR THE NON-LINEAR DYNAMIC ANALYSIS OF HISTORIC MASONRY CHURCH FACADES. , 2017, , . | | 1 |
| 21 | SEISMIC MODELLING AND ANALYSIS OF MASONRY BUILDING IN AGGREGATE: A CASE STUDY. , 2017, , . | | 0 |
| 22 | Non-linear dynamic analyses of 3D masonry structures by means of a homogenized rigid body and spring model (HRBSM). <i>AIP Conference Proceedings</i> , 2016, , . | 0.4 | 3 |
| 23 | 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 |
| 24 | A Multi-Level Approach for the Numerical Modelling of Complex Monumental Buildings. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2015, , 546-575. | 0.2 | 1 |
| 25 | Comparison between seismic retrofitting solutions for existing reinforced concrete buildings: a case study. <i>International Journal of Structural Engineering</i> , 2014, 5, 242. | 0.4 | 2 |
| 26 | AN ANALYTICAL APPROACH FOR ASSESSMENT OF THE EFFECTS OF INFILL PANELS IN RC FRAMES. , 2014, , . | | 1 |
| 27 | NON-LINEAR DYNAMIC ANALYSIS OF MASONRY TOWERS UNDER NATURAL ACCELEROGRAMS ACCOUNTING FOR SOIL-STRUCTURE INTERACTION. , 2014, , . | | 2 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | About the Reliability of Punching Verifications in Reinforced Concrete Flat Slabs. <i>Open Construction and Building Technology Journal</i> , 2013, 7, 74-87. | 0.7 | 5 |
| 32 | 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 |
| 33 | Maniace Castle in Syracuse, Italy: Comparison Between Present Structural Situation and Hypothetical Original Configuration by Means of Full 3D FE Models. <i>Open Civil Engineering Journal</i> , 2012, 6, 173-187. | 0.8 | 4 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Seismic investigation on the cathedral of Syracuse by finite elements and by a specific rigid body and spring model. <i>WIT Transactions on the Built Environment</i> , 2007, , . | 0.0 | 7 |
| 39 | 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 |
| 40 | 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 |
| 41 | SIGNIFICANT GROUND MOTION PARAMETERS FOR EVALUATION OF THE SEISMIC PERFORMANCE OF SLENDER MASONRY TOWERS. <i>Journal of Earthquake Engineering</i> , 2001, 5, 187-204. | 2.5 | 19 |
| 42 | Title is missing!. <i>Journal of Earthquake Engineering</i> , 2001, 5, 187. | 2.5 | 9 |
| 43 | 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 |
| 44 | Analysis of Seismic Damage Patterns in Old Masonry Church Facades. <i>Earthquake Spectra</i> , 2000, 16, 757-773. | 3.1 | 23 |
| 45 | Rigid element model for non-linear analysis of masonry façades subjected to out-of-plane loading. <i>Communications in Numerical Methods in Engineering</i> , 1999, 15, 457-468. | 1.3 | 27 |
| 46 | 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 |
| 47 | Spectral analysis of volcanic tremor associated with the 1993 paroxysmal events at Stromboli. <i>Geological Society Special Publication</i> , 1996, 110, 373-381. | 1.3 | 2 |