

# Gian Michele Calvi

## List of Publications by Citations

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76  
papers

2,556  
citations

26  
h-index

49  
g-index

88  
ext. papers

2,967  
ext. citations

2.6  
avg, IF

5.55  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 76 | In-plane seismic response of brick masonry walls. <i>Earthquake Engineering and Structural Dynamics</i> , <b>1997</b> , 26, 1091-1112  | 4   | 416       |
| 75 | Seismic Hazard Assessment (2003-2009) for the Italian Building Code. <i>Bulletin of the Seismological Society of America</i> , <b>2011</b> , 101, 1885-1911  | 2.3 | 184       |
| 74 | SEISMIC RESPONSE OF REINFORCED CONCRETE FRAMES INFILLED WITH WEAKLY REINFORCED MASONRY PANELS. <i>Journal of Earthquake Engineering</i> , <b>2001</b> , 5, 153-185   | 1.8 | 164       |
| 73 | A DISPLACEMENT-BASED APPROACH FOR VULNERABILITY EVALUATION OF CLASSES OF BUILDINGS. <i>Journal of Earthquake Engineering</i> , <b>1999</b> , 3, 411-438  | 1.8 | 161       |
| 72 | Experimental Verification of Viscous Damping Modeling for Inelastic Time History Analyzes. <i>Journal of Earthquake Engineering</i> , <b>2008</b> , 12, 125-145  | 1.8 | 100       |
| 71 | Inelastic spectra for displacement-based seismic design. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2001</b> , 21, 47-61   | 3.5 | 86        |
| 70 | Once upon a Time in Italy: The Tale of the Morandi Bridge. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2019</b> , 29, 198-217 | 1   | 77        |
| 69 | Displacement Reduction Factors for the Design of Medium and Long Period Structures. <i>Journal of Earthquake Engineering</i> , <b>2011</b> , 15, 1-29  | 1.8 | 74        |
| 68 | Testing of Masonry Structures for Seismic Assessment. <i>Earthquake Spectra</i> , <b>1996</b> , 12, 145-162  | 3.4 | 68        |
| 67 | Choices and Criteria for Seismic Strengthening. <i>Journal of Earthquake Engineering</i> , <b>2013</b> , 17, 769-802   | 1.8 | 65        |
| 66 | Towards a Capacity-Design Assessment Procedure for Reinforced Concrete Frames. <i>Earthquake Spectra</i> , <b>1991</b> , 7, 413-437  | 3.4 | 64        |
| 65 | Developing Direct Displacement-Based Procedures for Simplified Loss Assessment in Performance-Based Earthquake Engineering. <i>Journal of Earthquake Engineering</i> , <b>2014</b> , 18, 290-322                           | 1.8 | 63        |
| 64 | CONCEPT AND DEVELOPMENT OF HYBRID SOLUTIONS FOR SEISMIC RESISTANT BRIDGE SYSTEMS. <i>Journal of Earthquake Engineering</i> , <b>2005</b> , 9, 899-921  | 1.8 | 62        |
| 63 | A Prioritization Scheme for Seismic Intervention in School Buildings in Italy. <i>Earthquake Spectra</i> , <b>2007</b> , 23, 291-314   | 3.4 | 61        |
| 62 | RELEVANCE OF BEAM-COLUMN JOINT DAMAGE AND COLLAPSE IN RC FRAME ASSESSMENT. <i>Journal of Earthquake Engineering</i> , <b>2002</b> , 6, 75-100  | 1.8 | 59        |
| 61 | Historical development of friction-based seismic isolation systems. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2018</b> , 106, 14-30   | 3.5 | 55        |
| 60 | Estimating the Higher-Mode Response of Ductile Structures. <i>Journal of Earthquake Engineering</i> , <b>2008</b> , 12, 456-472  | 1.8 | 50        |

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|----|---|-----|----|
| 59 | Experimental and Numerical Studies on the Seismic Response of R.C. Hollow Bridge Piers. <i>Bulletin of Earthquake Engineering</i> , <b>2005</b> , 3, 267-297  | 3.7 | 46 |
| 58 | Displacement-Based Design of Precast Walls with Additional Dampers. <i>Journal of Earthquake Engineering</i> , <b>2009</b> , 13, 40-65  | 1.8 | 44 |
| 57 | Review of Design Parameters of Concentrically Braced Frames with RHS Shape Braces. <i>Journal of Earthquake Engineering</i> , <b>2009</b> , 13, 109-131   | 1.8 | 39 |
| 56 | Simplified seismic performance assessment and implications for seismic design. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2014</b> , 13, 95-122   | 2   | 37 |
| 55 | Conceptual Seismic Design of Cable-Stayed Bridges. <i>Journal of Earthquake Engineering</i> , <b>2010</b> , 14, 1139-1181   | 3.8 | 36 |
| 54 | Seismic Vulnerability of the Italian Roadway Bridge Stock. <i>Earthquake Spectra</i> , <b>2015</b> , 31, 2137-2161  | 3.4 | 35 |
| 53 | Shear Strength of Reinforced Concrete Walls Subjected to Cyclic Loading. <i>Journal of Earthquake Engineering</i> , <b>2011</b> , 15, 30-71   | 1.8 | 33 |
| 52 | Performance-Based Seismic Design of Nonstructural Building Elements. <i>Journal of Earthquake Engineering</i> , <b>2021</b> , 25, 237-269   | 1.8 | 30 |
| 51 | . <i>Journal of Earthquake Engineering</i> , <b>2005</b> , 9, 899   | 1.8 | 27 |
| 50 | Seismic Isolation Devices Based on Sliding between Surfaces with Variable Friction Coefficient. <i>Earthquake Spectra</i> , <b>2016</b> , 32, 2291-2315   | 3.4 | 26 |
| 49 | . <i>Journal of Earthquake Engineering</i> , <b>2003</b> , 7, 201   | 1.8 | 24 |
| 48 | Numerical Study on the Collapse of the Morandi Bridge. <i>Journal of Performance of Constructed Facilities</i> , <b>2020</b> , 34, 04020044   | 2   | 24 |
| 47 | Conceptual seismic design in performance-based earthquake engineering. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 389-411  | 4   | 23 |
| 46 | Experimental dynamic response of spherical friction-based isolation devices. <i>Journal of Earthquake Engineering</i> , <b>2019</b> , 23, 1465-1484   | 1.8 | 23 |
| 45 | DEVELOPMENT OF AN INNOVATIVE SEISMIC DESIGN PROCEDURE FOR FRAME-WALL STRUCTURES. <i>Journal of Earthquake Engineering</i> , <b>2005</b> , 9, 279-307  | 1.8 | 22 |
| 44 | Direct displacement-based seismic assessment procedure for multi-span reinforced concrete bridges with single-column piers. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2013</b> , 42, 1031-1051 | 4   | 21 |
| 43 | A Seismic Performance Classification Framework to Provide Increased Seismic Resilience. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2014</b> , 361-400                                      | 0.2 | 20 |
| 42 | Factors influencing the repair costs of soft-story RC frame buildings and implications for their seismic retrofit. <i>Engineering Structures</i> , <b>2015</b> , 101, 233-245                                   | 4.7 | 19 |

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|----|---|-----|----|
| 41 | Inelastic Higher-Mode Response in Reinforced Concrete Wall Structures. <i>Earthquake Spectra</i> , <b>2015</b> , 31, 1493-1514  | 3.4 | 17 |
| 40 | Displacement-Based Framework for Simplified Seismic Loss Assessment. <i>Journal of Earthquake Engineering</i> , <b>2020</b> , 24, 1-22  | 1.8 | 16 |
| 39 | . <i>Journal of Earthquake Engineering</i> , <b>2006</b> , 10, 91   | 1.8 | 12 |
| 38 | Quantifying seismic risk in structures via simplified demand-intensity models. <i>Bulletin of Earthquake Engineering</i> , <b>2020</b> , 18, 2003-2022  | 3.7 | 12 |
| 37 | Cyclic model with damage assessment of longitudinal joints in segmental tunnel linings. <i>Tunnelling and Underground Space Technology</i> , <b>2020</b> , 103, 103472  | 5.7 | 11 |
| 36 | Introducing new design spectra derived from Italian recorded ground motions 1972 to 2017. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2018</b> , 47, 2644-2660                                 | 4   | 11 |
| 35 | . <i>Journal of Earthquake Engineering</i> , <b>2002</b> , 6, 75  | 1.8 | 11 |
| 34 | Revisiting design earthquake spectra. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2018</b> , 47, 2627-2643   | 4   | 10 |
| 33 | Gapped-Inclined Braces for Seismic Retrofit of Soft-Story Buildings. <i>Journal of Structural Engineering</i> , <b>2014</b> , 140, 04014080   | 3   | 10 |
| 32 | Sectional response of T-shaped RC walls. <i>Bulletin of Earthquake Engineering</i> , <b>2013</b> , 11, 999-1019   | 3.7 | 10 |
| 31 | Application of direct displacement based design to long span bridges. <i>Bulletin of Earthquake Engineering</i> , <b>2010</b> , 8, 897-919  | 3.7 | 10 |
| 30 | Introduction to a Model Code for Displacement-Based Seismic Design. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2010</b> , 137-148  | 0.2 | 9  |
| 29 | Energy Efficiency and Seismic Resilience: A Common Approach <b>2016</b> , 165-208   |     | 9  |
| 28 | Displacement-Based Seismic Design of Bridges. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2013</b> , 23, 112-121 | 1   | 7  |
| 27 | Analytical modelling of a large-scale dynamic testing facility. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2012</b> , 41, 255-277   | 4   | 6  |
| 26 | Seismic isolation of buildings using devices based on sliding between surfaces with variable friction coefficient. <i>Innovative Infrastructure Solutions</i> , <b>2017</b> , 2, 1                            | 2.3 | 5  |
| 25 | In-plane seismic response of brick masonry walls <b>1997</b> , 26, 1091   |     | 5  |
| 24 | A Novel Seismic Design Strategy for Structures With Complex Geometry. <i>Journal of Earthquake Engineering</i> , <b>2010</b> , 14, 69-105   | 1.8 | 4  |

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|----|---|-----|---|
| 23 | A methodology for the seismic multilevel assessment of unreinforced masonry church inventories in the Groningen area. <i>Bulletin of Earthquake Engineering</i> , <b>2019</b> , 17, 4625-4650                     | 3.7 | 4 |
| 22 | In-plane seismic response of brick masonry walls <b>1997</b> , 26, 1091   |     | 4 |
| 21 | Seismic Displacement Based Design of Structures: Relevance of Soil Structure Interaction. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2014</b> , 241-275                                      | 0.2 | 3 |
| 20 | Engineers Understanding of Earthquakes Demand and Structures Response. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2010</b> , 223-247   | 0.2 | 3 |
| 19 | Towards a Knowledge-Based System for Seismic Assessment of Buildings. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2008</b> , 5, 29-41   | 8.4 | 3 |
| 18 | Collapse analysis of the multi-span reinforced concrete arch bridge of Caprigliola, Italy. <i>Engineering Structures</i> , <b>2022</b> , 251, 113375  | 4.7 | 3 |
| 17 | Effects of Local Soil, Magnitude and Distance on Empirical Response Spectra for Design. <i>Journal of Earthquake Engineering</i> , <b>2019</b> , 1-28   | 1.8 | 3 |
| 16 | Cost-Benefit Analysis of Buildings Retrofitted Using GIB Systems. <i>Earthquake Spectra</i> , <b>2016</b> , 32, 861-879   | 3.4 | 2 |
| 15 | Problems and certainties in the experimental simulation of the seismic response of MDOF structures. <i>Engineering Structures</i> , <b>1996</b> , 18, 213-226   | 4.7 | 2 |
| 14 | Design of laterally loaded pile-columns considering SSI effects: Strengths and weaknesses of 3D, 2D, and 1D nonlinear analysis. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 863-888 | 4   | 2 |
| 13 | A seismic risk classification framework for non-structural elements. <i>Bulletin of Earthquake Engineering</i> , <b>2021</b> , 19, 5471-5494  | 3.7 | 2 |
| 12 | Nonlinear soil effects on observed and simulated response spectra. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 3831   | 4   | 2 |
| 11 | Preliminary Study on the Impact of the Introduction of an Updated Seismic Hazard Model for Italy. <i>Journal of Earthquake Engineering</i> , <b>2007</b> , 11, 89-118   | 1.8 | 1 |
| 10 | Feasibility study for in-situ dynamic testing of structures and geotechnical systems. <i>Engineering Structures</i> , <b>2021</b> , 235, 112085   | 4.7 | 1 |
| 9  | On the correction of spectra by a displacement reduction factor in direct displacement-based seismic design and assessment. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2019</b> , 48, 678-685     | 4   | 1 |
| 8  | Probabilistic seismic assessment of reinforced concrete bridges using simulated records. <i>Structure and Infrastructure Engineering</i> , 1-21   | 2.9 | 1 |
| 7  | Towards a practical loss-based design approach and procedure. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 3741  | 4   | 1 |
| 6  | A Redefinition of Seismic Input for Design and Assessment. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2018</b> , 69-100  | 0.2 |   |

- 5 Structural Strengthening and Retrofit; Motivations, Concepts and Approaches. *Building Pathology and Rehabilitation*, **2018**, 1-24 0.2
- 4 Seismic performance of RC bridges. *Structural Control and Health Monitoring*, **1997**, 1, 50-56
- 3 A 3-DOF testing machine for in-plane behaviour of structures. *Materiaux Et Constructions*, **1988**, 21, 384-393
- 2 Design and Assessment of Bridges **2007**, 155-179
- 1 Eminent Structural Engineer Nigel Priestley. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2016**, 26, 176-178 1