Gian Michele Calvi

List of Publications by Year in Descending Order

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	Collapse analysis of the multi-span reinforced concrete arch bridge of Caprigliola, Italy. *Engineering Structures*, **2022**, 251, 113375	4.7	3
75	Feasibility study for in-situ dynamic testing of structures and geotechnical systems. *Engineering Structures*, **2021**, 235, 112085	4.7	1
74	Performance-Based Seismic Design of Nonstructural Building Elements. *Journal of Earthquake Engineering*, **2021**, 25, 237-269	1.8	30
73	Design of laterally loaded pile-columns considering SSI effects: Strengths and weaknesses of 3D, 2D, and 1D nonlinear analysis. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 863-888	4	2
72	A seismic risk classification framework for non-structural elements. *Bulletin of Earthquake Engineering*, **2021**, 19, 5471-5494	3.7	2
71	Towards a practical loss-based design approach and procedure. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 3741	4	1
70	Nonlinear soil effects on observed and simulated response spectra. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 3831	4	2
69	Displacement-Based Framework for Simplified Seismic Loss Assessment. *Journal of Earthquake Engineering*, **2020**, 24, 1-22	1.8	16
68	Cyclic model with damage assessment of longitudinal joints in segmental tunnel linings. *Tunnelling and Underground Space Technology*, **2020**, 103, 103472	5.7	11
67	Quantifying seismic risk in structures via simplified demand–intensity models. *Bulletin of Earthquake Engineering*, **2020**, 18, 2003-2022	3.7	12
66	Numerical Study on the Collapse of the Morandi Bridge. *Journal of Performance of Constructed Facilities*, **2020**, 34, 04020044	2	24
65	On the correction of spectra by a displacement reduction factor in direct displacement-based seismic design and assessment. *Earthquake Engineering and Structural Dynamics*, **2019**, 48, 678-685	4	1
64	A methodology for the seismic multilevel assessment of unreinforced masonry church inventories in the Groningen area. *Bulletin of Earthquake Engineering*, **2019**, 17, 4625-4650	3.7	4
63	Effects of Local Soil, Magnitude and Distance on Empirical Response Spectra for Design. *Journal of Earthquake Engineering*, **2019**, 1-28	1.8	3
62	Once upon a Time in Italy: The Tale of the Morandi Bridge. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2019**, 29, 198-217	1	77
61	Conceptual seismic design in performance-based earthquake engineering. *Earthquake Engineering and Structural Dynamics*, **2019**, 48, 389-411	4	23
60	Experimental dynamic response of spherical friction-based isolation devices. *Journal of Earthquake Engineering*, **2019**, 23, 1465-1484	1.8	23

59	A Redefinition of Seismic Input for Design and Assessment. *Geotechnical, Geological and Earthquake Engineering*, **2018**, 69-100	0.2	
58	Structural Strengthening and Retrofit; Motivations, Concepts and Approaches. *Building Pathology and Rehabilitation*, **2018**, 1-24	0.2	
57	Revisiting design earthquake spectra. *Earthquake Engineering and Structural Dynamics*, **2018**, 47, 2627-2643	4	10
56	Introducing new design spectra derived from Italian recorded ground motions 1972 to 2017. *Earthquake Engineering and Structural Dynamics*, **2018**, 47, 2644-2660	4	11
55	Historical development of friction-based seismic isolation systems. *Soil Dynamics and Earthquake Engineering*, **2018**, 106, 14-30	3.5	55
54	Seismic isolation of buildings using devices based on sliding between surfaces with variable friction coefficient. *Innovative Infrastructure Solutions*, **2017**, 2, 1	2.3	5
53	Cost-Benefit Analysis of Buildings Retrofitted Using GIB Systems. *Earthquake Spectra*, **2016**, 32, 861-879	3.4	2
52	Energy Efficiency and Seismic Resilience: A Common Approach **2016**, 165-208		9
51	Eminent Structural Engineer: Nigel Priestley. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2016**, 26, 176-178	1	
50	Seismic Isolation Devices Based on Sliding between Surfaces with Variable Friction Coefficient. *Earthquake Spectra*, **2016**, 32, 2291-2315	3.4	26
49	Factors influencing the repair costs of soft-story RC frame buildings and implications for their seismic retrofit. *Engineering Structures*, **2015**, 101, 233-245	4.7	19
48	Inelastic Higher-Mode Response in Reinforced Concrete Wall Structures. *Earthquake Spectra*, **2015**, 31, 1493-1514	3.4	17
47	Seismic Vulnerability of the Italian Roadway Bridge Stock. *Earthquake Spectra*, **2015**, 31, 2137-2161	3.4	35
46	Simplified seismic performance assessment and implications for seismic design. *Earthquake Engineering and Engineering Vibration*, **2014**, 13, 95-122	2	37
45	Gapped-Inclined Braces for Seismic Retrofit of Soft-Story Buildings. *Journal of Structural Engineering*, **2014**, 140, 04014080	3	10
44	Developing Direct Displacement-Based Procedures for Simplified Loss Assessment in Performance-Based Earthquake Engineering. *Journal of Earthquake Engineering*, **2014**, 18, 290-322	1.8	63
43	Seismic Displacement Based Design of Structures: Relevance of Soil Structure Interaction. *Geotechnical, Geological and Earthquake Engineering*, **2014**, 241-275	0.2	3
42	A Seismic Performance Classification Framework to Provide Increased Seismic Resilience. *Geotechnical, Geological and Earthquake Engineering*, **2014**, 361-400	0.2	20

41	Sectional response of T-shaped RC walls. *Bulletin of Earthquake Engineering*, **2013**, 11, 999-1019	3.7	10
40	Choices and Criteria for Seismic Strengthening. *Journal of Earthquake Engineering*, **2013**, 17, 769-802	1.8	65
39	Direct displacement-based seismic assessment procedure for multi-span reinforced concrete bridges with single-column piers. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 1031-1051	4	21
38	Displacement-Based Seismic Design of Bridges. *Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)*, **2013**, 23, 112-121	1	7
37	Analytical modelling of a large-scale dynamic testing facility. *Earthquake Engineering and Structural Dynamics*, **2012**, 41, 255-277	4	6
36	Shear Strength of Reinforced Concrete Walls Subjected to Cyclic Loading. *Journal of Earthquake Engineering*, **2011**, 15, 30-71	1.8	33
35	Seismic Hazard Assessment (2003-2009) for the Italian Building Code. *Bulletin of the Seismological Society of America*, **2011**, 101, 1885-1911	2.3	184
34	Displacement Reduction Factors for the Design of Medium and Long Period Structures. *Journal of Earthquake Engineering*, **2011**, 15, 1-29	1.8	74
33	Introduction to a Model Code for Displacement-Based Seismic Design. *Geotechnical, Geological and Earthquake Engineering*, **2010**, 137-148	0.2	9
32	Conceptual Seismic Design of Cable-Stayed Bridges. *Journal of Earthquake Engineering*, **2010**, 14, 1139-1171	1.81	36
31	Engineers Understanding of Earthquakes Demand and Structures Response. *Geotechnical, Geological and Earthquake Engineering*, **2010**, 223-247	0.2	3
30	A Novel Seismic Design Strategy for Structures With Complex Geometry. *Journal of Earthquake Engineering*, **2010**, 14, 69-105	1.8	4
29	Application of direct displacement based design to long span bridges. *Bulletin of Earthquake Engineering*, **2010**, 8, 897-919	3.7	10
28	Review of Design Parameters of Concentrically Braced Frames with RHS Shape Braces. *Journal of Earthquake Engineering*, **2009**, 13, 109-131	1.8	39
27	Displacement-Based Design of Precast Walls with Additional Dampers. *Journal of Earthquake Engineering*, **2009**, 13, 40-65	1.8	44
26	Towards a Knowledge-Based System for Seismic Assessment of Buildings. *Computer-Aided Civil and Infrastructure Engineering*, **2008**, 5, 29-41	8.4	3
25	Experimental Verification of Viscous Damping Modeling for Inelastic Time History Analyzes. *Journal of Earthquake Engineering*, **2008**, 12, 125-145	1.8	100
24	Estimating the Higher-Mode Response of Ductile Structures. *Journal of Earthquake Engineering*, **2008**, 12, 456-472	1.8	50

23	Preliminary Study on the Impact of the Introduction of an Updated Seismic Hazard Model for Italy. *Journal of Earthquake Engineering*, **2007**, 11, 89-118	1.8	1
22	A Prioritization Scheme for Seismic Intervention in School Buildings in Italy. *Earthquake Spectra*, **2007**, 23, 291-314	3.4	61
21	Design and Assessment of Bridges **2007**, 155-179		
20	. *Journal of Earthquake Engineering*, **2006**, 10, 91	1.8	12
19	DEVELOPMENT OF AN INNOVATIVE SEISMIC DESIGN PROCEDURE FOR FRAME-WALL STRUCTURES. *Journal of Earthquake Engineering*, **2005**, 9, 279-307	1.8	22
18	CONCEPT AND DEVELOPMENT OF HYBRID SOLUTIONS FOR SEISMIC RESISTANT BRIDGE SYSTEMS. *Journal of Earthquake Engineering*, **2005**, 9, 899-921	1.8	62
17	Experimental and Numerical Studies on the Seismic Response of R.C. Hollow Bridge Piers. *Bulletin of Earthquake Engineering*, **2005**, 3, 267-297	3.7	46
16	. *Journal of Earthquake Engineering*, **2005**, 9, 899	1.8	27
15	. *Journal of Earthquake Engineering*, **2003**, 7, 201	1.8	24
14	RELEVANCE OF BEAM-COLUMN JOINT DAMAGE AND COLLAPSE IN RC FRAME ASSESSMENT. *Journal of Earthquake Engineering*, **2002**, 6, 75-100	1.8	59
13	. *Journal of Earthquake Engineering*, **2002**, 6, 75	1.8	11
12	Inelastic spectra for displacement-based seismic design. *Soil Dynamics and Earthquake Engineering*, **2001**, 21, 47-61	3.5	86
11	SEISMIC RESPONSE OF REINFORCED CONCRETE FRAMES INFILLED WITH WEAKLY REINFORCED MASONRY PANELS. *Journal of Earthquake Engineering*, **2001**, 5, 153-185	1.8	164
10	A DISPLACEMENT-BASED APPROACH FOR VULNERABILITY EVALUATION OF CLASSES OF BUILDINGS. *Journal of Earthquake Engineering*, **1999**, 3, 411-438	1.8	161
9	Seismic performance of RC bridges. *Structural Control and Health Monitoring*, **1997**, 1, 50-56		
8	In-plane seismic response of brick masonry walls. *Earthquake Engineering and Structural Dynamics*, **1997**, 26, 1091-1112	4	416
7	In-plane seismic response of brick masonry walls **1997**, 26, 1091		4
6	In-plane seismic response of brick masonry walls **1997**, 26, 1091		5

5	Testing of Masonry Structures for Seismic Assessment. *Earthquake Spectra*, **1996**, 12, 145-162	3.4	68
4	Problems and certainties in the experimental simulation of the seismic response of MDOF structures. *Engineering Structures*, **1996**, 18, 213-226	4.7	2
3	Towards a Capacity-Design Assessment Procedure for Reinforced Concrete Frames. *Earthquake Spectra*, **1991**, 7, 413-437	3.4	64
2	A 3-DOF testing machine for in-plane behaviour of structures. *Materiaux Et Constructions*, **1988**, 21, 384-393		
1	Probabilistic seismic assessment of reinforced concrete bridges using simulated records. *Structure and Infrastructure Engineering*,1-21	2.9	1