Paolo Franchin

List of Publications by Year
in descending order

63 papers	**1,495** citations	318942 **23** h-index	371746 **37** g-index
64 all docs	**64** docs citations	**64** times ranked	**1272** citing authors

#	Article	IF	Citations
1	Seismic Demand on Mid-Twentieth Century Reinforced Concrete Buildings Founded on Piles: Effect of Soil-Foundation-Structure-Interaction. Journal of Earthquake Engineering, 2023, 27, 1110-1125.	1.4	2
2	Modelling and Seismic Response Analysis of Italian Pre-Code and Low-Code Reinforced Concrete Buildings. Part I: Bare Frames. Journal of Earthquake Engineering, 2023, 27, 1482-1513.	1.4	12
3	Modelling and Seismic Response Analysis of Italian Pre-Code and Low-Code Reinforced Concrete Buildings. Part II: Infilled Frames. Journal of Earthquake Engineering, 2023, 27, 1534-1564.	1.4	10
4	Load Path Effect on the Response of Slender Lightly Reinforced Square RC Columns under Biaxial Bending. Journal of Structural Engineering, 2022, 148, .	1.7	8
5	Risk-Based Optimization of Bracing Systems for Seismic Retrofitting of RC Buildings. Journal of Structural Engineering, 2022, 148, .	1.7	1
6	Non‐linear dynamic analysis of buildings founded on piles: Simplified modelling strategies for soil‐foundation‐structure interaction. Earthquake Engineering and Structural Dynamics, 2022, 51, 744-763.	2.5	3
7	Seismic Risk of Infrastructure Systems with Treatment of and Sensitivity to Epistemic Uncertainty. Infrastructures, 2020, 5, 103.	1.4	5
8	How is collapse risk of RC buildings affected by the angle of seismic incidence?. Earthquake Engineering and Structural Dynamics, 2019, 48, 1575-1594.	2.5	23
9	RINTC-E: TOWARDS SEISMIC RISK ASSESSMENT OF EXISTING RESIDENTIAL REINFORCED CONCRETE BUILDINGS IN ITALY. , 2019, , .		12
10	Approximate Bayesian network formulation for the rapid loss assessment of real-world infrastructure systems. Reliability Engineering and System Safety, 2018, 177, 80-93.	5.1	25
11	Research Needs Towards a Resilient Community. Geotechnical, Geological and Earthquake Engineering, 2018, , 661-691.	0.1	0
12	Improved risk‐targeted performance‐based seismic design of reinforced concrete frame structures. Earthquake Engineering and Structural Dynamics, 2018, 47, 49-67.	2.5	44
13	Modeling and Seismic Response Analysis of Italian Code-Conforming Reinforced Concrete Buildings. Journal of Earthquake Engineering, 2018, 22, 105-139.	1.4	50
14	Modelling Uncertainties of Italian Code-Conforming Structures for the Purpose of Seismic Response Analysis. Journal of Earthquake Engineering, 2018, 22, 1964-1989.	1.4	28
15	In-plane response of masonry infill walls: Comprehensive experimentally-based equivalent strut model for deterministic and probabilistic analysis. Engineering Structures, 2018, 167, 533-548.	2.6	71
16	Median floor acceleration spectra of linear structures with uncertain properties. Earthquake Engineering and Structural Dynamics, 2017, 46, 2055-2060.	2.5	10
17	Uniform hazard floor acceleration spectra for linear structures. Earthquake Engineering and Structural Dynamics, 2017, 46, 1121-1140.	2.5	24
18	Spectrum-to-spectrum methods for the generation of elastic floor acceleration spectra. Procedia Engineering, 2017, 199, 3552-3557.	1.2	4

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19	An equivalent linear procedure for probabilistic displacement-based design of RC structures under earthquake. Procedia Engineering, 2017, 199, 3570-3575.	1.2	0
20	A Spectrum-to-Spectrum Method for Calculating Uniform Hazard Floor Response Spectra. , 2017, , .		0
21	Failure simulation of shearâ€critical RC columns with nonâ€ductile detailing under lateral load. Earthquake Engineering and Structural Dynamics, 2017, 46, 855-874.	2.5	6
22	Bayesian Networks and Infrastructure Systems: Computational and Methodological Challenges. Springer Series in Reliability Engineering, 2017, , 385-415.	0.3	6
23	RINTC PROJECT: INFLUENCE OF STRUCTURE-RELATED UNCERTAINTIES ON THE RISK OF COLLAPSE OF ITALIAN CODE-CONFORMING REINFORCED CONCRETE BUILDINGS. , 2017, , .		6
24	COMPARATIVE ASSESSMENT OF STRUT MODELS FOR THE MODELLING OF IN-PLANE SEISMIC RESPONSE OF INFILL WALLS. , 2017, , .		16
25	Probabilistic seismic demand model for nonstructural components. Earthquake Engineering and Structural Dynamics, 2016, 45, 599-617.	2.5	12
26	Estimation of Floor Response Spectra Using the Uncoupled Modal Response History Analysis. Applied Mechanics and Materials, 2016, 847, 266-272.	0.2	0
27	Earthquake-altered flooding hazard induced by damage to storm water systems. Sustainable and Resilient Infrastructure, 2016, 1, 14-31.	1.7	9
28	Seismic fragility of reinforced concrete girder bridges using Bayesian belief network. Earthquake Engineering and Structural Dynamics, 2016, 45, 29-44.	2.5	17
29	Probabilistic Assessment of Civil Infrastructure Resilience to Earthquakes. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 583-600.	6.3	119
30	Seismic Vulnerability of the Italian Roadway Bridge Stock. Earthquake Spectra, 2015, 31, 2137-2161.	1.6	68
31	Simulationâ€Based Seismic Risk Assessment of Gas Distribution Networks. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 508-523.	6.3	56
32	Seismic performance-based design of flexible earth-retaining diaphragm walls. Engineering Structures, 2014, 78, 57-68.	2.6	6
33	Models for Seismic Vulnerability Analysis of Power Networks: Comparative Assessment. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 590-607.	6.3	40
34	Performance-based seismic design of integral abutment bridges. Bulletin of Earthquake Engineering, 2014, 12, 939-960.	2.3	27
35	Performance-Based Assessment of Existing Buildings Existing buildings Existing buildings Existing buildings Existing buildings in Europe: Problems and Perspectives. Geotechnical, Geological and Earthquake Engineering, 2014, , 333-345.	0.1	0
36	Probabilistic Inference in the Physical Simulation of Interdependent Critical Infrastructure Systems. Lecture Notes in Computer Science, 2014, , 328-338.	1.0	1

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37	Component Fragilities and System Performance of Health Care Facilities. Geotechnical, Geological and Earthquake Engineering, 2014, , 357-384.	0.1	3
38	Fragility Functions of Electric Power Stations. Geotechnical, Geological and Earthquake Engineering, 2014, , 157-185.	0.1	6
39	Framework for Seismic Hazard Analysis of Spatially Distributed Systems. Geotechnical, Geological and Earthquake Engineering, 2014, , 57-88.	0.1	20
40	Method for Probabilistic Displacement-Based Design of RC Structures. Journal of Structural Engineering, 2012, 138, 585-591.	1.7	22
41	Quantitative assessment of social losses based on physical damage and interaction with infrastructural systems. Earthquake Engineering and Structural Dynamics, 2012, 41, 1569-1589.	2.5	44
42	Explicit Probabilistic Seismic Design of RC Structures Through an Elastic Proxy. , 2011, , 169-184.		1
43	Confidence Factor?. Journal of Earthquake Engineering, 2010, 14, 989-1007.	1.4	54
44	Issues in the Upgrade of Italian Highway Structures. Journal of Earthquake Engineering, 2010, 14, 1221-1252.	1.4	30
45	Open Issues in the Seismic Design and Assessment of Bridges. Geotechnical, Geological and Earthquake Engineering, 2010, , 311-330.	0.1	2
46	Direct Probability-Based Seismic Design of RC Buildings. Geotechnical, Geological and Earthquake Engineering, 2010, , 235-244.	0.1	0
47	Allowing Traffic Over Mainshock-Damaged Bridges. Journal of Earthquake Engineering, 2009, 13, 585-599.	1.4	44
48	Increased Accuracy of Vector-IM-Based Seismic Risk Assessment?. Journal of Earthquake Engineering, 2008, 12, 111-124.	1.4	19
49	A scalar damage measure for seismic reliability analysis of RC frames. Earthquake Engineering and Structural Dynamics, 2007, 36, 2059-2079.	2.5	107
50	Seismic Fragility Analysis of Structural Systems. Journal of Engineering Mechanics - ASCE, 2006, 132, 385-395.	1.6	73
51	Title is missing!. Journal of Earthquake Engineering, 2006, 10, 31.	1.4	1
52	Title is missing!. Journal of Earthquake Engineering, 2006, 10, 195.	1.4	1
53	ON THE ROLE OF ROAD NETWORKS IN REDUCING HUMAN LOSSES AFTER EARTHQUAKES. Journal of Earthquake Engineering, 2006, 10, 195-206.	1.4	40
54	Seismic design of bridges accounting for spatial variability of ground motion. Earthquake Engineering and Structural Dynamics, 2005, 34, 327-348.	2.5	80

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55	Reliability of Uncertain Inelastic Structures under Earthquake Excitation. Journal of Engineering Mechanics - ASCE, 2004, 130, 180-191.	1.6	31
56	Seismic fragility analysis of 3D structures. Structural Safety, 2004, 26, 421-441.	2.8	51
57	Response Sensitivity for Nonlinear Beam–Column Elements. Journal of Structural Engineering, 2004, 130, 1281-1288.	1.7	56
58	Seismic risk evaluation of RC bridge structures. Earthquake Engineering and Structural Dynamics, 2003, 32, 1275-1290.	2.5	25
59	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 45.	1.4	2
60	Title is missing!. Journal of Earthquake Engineering, 2002, 6, 131.	1.4	1
61	Model correction factor method for reliability problems involving integrals of non-Gaussian random fields. Probabilistic Engineering Mechanics, 2002, 17, 109-122.	1.3	7
62	On the accuracy of simplified methods for the analysis of isolated bridges. Earthquake Engineering and Structural Dynamics, 2001, 30, 363-382.	2.5	30
63	Post-buckling analysis of corrugated panels in the presence of multiple interacting modes. Thin-Walled Structures, 2000, 36, 47-66.	2.7	20