Paolo Franchin

List of Publications by Year
in descending order

63	1,495	279701	330025
papers	citations	23 h-index	37 g-index

64	64	64	1099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probabilistic Assessment of Civil Infrastructure Resilience to Earthquakes. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 583-600.	6.3	119
2	A scalar damage measure for seismic reliability analysis of RC frames. Earthquake Engineering and Structural Dynamics, 2007, 36, 2059-2079.	2.5	107
3	Seismic design of bridges accounting for spatial variability of ground motion. Earthquake Engineering and Structural Dynamics, 2005, 34, 327-348.	2.5	80
4	Seismic Fragility Analysis of Structural Systems. Journal of Engineering Mechanics - ASCE, 2006, 132, 385-395.	1.6	73
5	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
6	Seismic Vulnerability of the Italian Roadway Bridge Stock. Earthquake Spectra, 2015, 31, 2137-2161.	1.6	68
7	Response Sensitivity for Nonlinear Beamâ€“Column Elements. Journal of Structural Engineering, 2004, 130, 1281-1288.	1.7	56
8	Simulationâ€Based Seismic Risk Assessment of Gas Distribution Networks. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 508-523.	6.3	56
9	Confidence Factor?. Journal of Earthquake Engineering, 2010, 14, 989-1007.	1.4	54
10	Seismic fragility analysis of 3D structures. Structural Safety, 2004, 26, 421-441.	2.8	51
11	Modeling and Seismic Response Analysis of Italian Code-Conforming Reinforced Concrete Buildings. Journal of Earthquake Engineering, 2018, 22, 105-139.	1.4	50
12	Allowing Traffic Over Mainshock-Damaged Bridges. Journal of Earthquake Engineering, 2009, 13, 585-599.	1.4	44
13	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
14	Improved riskâ€targeted performanceâ€based seismic design of reinforced concrete frame structures. Earthquake Engineering and Structural Dynamics, 2018, 47, 49-67.	2.5	44
15	ON THE ROLE OF ROAD NETWORKS IN REDUCING HUMAN LOSSES AFTER EARTHQUAKES. Journal of Earthquake Engineering, 2006, 10, 195-206.	1.4	40
16	Models for Seismic Vulnerability Analysis of Power Networks: Comparative Assessment. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 590-607.	6.3	40
17	Reliability of Uncertain Inelastic Structures under Earthquake Excitation. Journal of Engineering Mechanics - ASCE, 2004, 130, 180-191.	1.6	31
18	On the accuracy of simplified methods for the analysis of isolated bridges. Earthquake Engineering and Structural Dynamics, 2001, 30, 363-382.	2.5	30

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19	Issues in the Upgrade of Italian Highway Structures. Journal of Earthquake Engineering, 2010, 14, 1221-1252.	1.4	30
20	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
21	Performance-based seismic design of integral abutment bridges. Bulletin of Earthquake Engineering, 2014, 12, 939-960.	2.3	27
22	Seismic risk evaluation of RC bridge structures. Earthquake Engineering and Structural Dynamics, 2003, 32, 1275-1290.	2.5	25
23	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
24	Uniform hazard floor acceleration spectra for linear structures. Earthquake Engineering and Structural Dynamics, 2017, 46, 1121-1140.	2.5	24
25	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
26	Method for Probabilistic Displacement-Based Design of RC Structures. Journal of Structural Engineering, 2012, 138, 585-591.	1.7	22
27	Post-buckling analysis of corrugated panels in the presence of multiple interacting modes. Thin-Walled Structures, 2000, 36, 47-66.	2.7	20
28	Framework for Seismic Hazard Analysis of Spatially Distributed Systems. Geotechnical, Geological and Earthquake Engineering, 2014, , 57-88.	0.1	20
29	Increased Accuracy of Vector-IM-Based Seismic Risk Assessment?. Journal of Earthquake Engineering, 2008, 12, 111-124.	1.4	19
30	Seismic fragility of reinforced concrete girder bridges using Bayesian belief network. Earthquake Engineering and Structural Dynamics, 2016, 45, 29-44.	2.5	17
31	COMPARATIVE ASSESSMENT OF STRUT MODELS FOR THE MODELLING OF IN-PLANE SEISMIC RESPONSE OF INFILL WALLS. , 2017, , .		16
32	Probabilistic seismic demand model for nonstructural components. Earthquake Engineering and Structural Dynamics, 2016, 45, 599-617.	2.5	12
33	RINTC-E: TOWARDS SEISMIC RISK ASSESSMENT OF EXISTING RESIDENTIAL REINFORCED CONCRETE BUILDINGS IN ITALY. , 2019, , .		12
34	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
35	Median floor acceleration spectra of linear structures with uncertain properties. Earthquake Engineering and Structural Dynamics, 2017, 46, 2055-2060.	2.5	10
36	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

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37	Earthquake-altered flooding hazard induced by damage to storm water systems. Sustainable and Resilient Infrastructure, 2016, 1, 14-31.	1.7	9
38	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
39	Model correction factor method for reliability problems involving integrals of non-Gaussian random fields. Probabilistic Engineering Mechanics, 2002, 17, 109-122.	1.3	7
40	Seismic performance-based design of flexible earth-retaining diaphragm walls. Engineering Structures, 2014, 78, 57-68.	2.6	6
41	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
42	Bayesian Networks and Infrastructure Systems: Computational and Methodological Challenges. Springer Series in Reliability Engineering, 2017, , 385-415.	0.3	6
43	Fragility Functions of Electric Power Stations. Geotechnical, Geological and Earthquake Engineering, 2014, , 157-185.	0.1	6
44	RINTC PROJECT: INFLUENCE OF STRUCTURE-RELATED UNCERTAINTIES ON THE RISK OF COLLAPSE OF ITALIAN CODE-CONFORMING REINFORCED CONCRETE BUILDINGS. , 2017, , .		6
45	Seismic Risk of Infrastructure Systems with Treatment of and Sensitivity to Epistemic Uncertainty. Infrastructures, 2020, 5, 103.	1.4	5
46	Spectrum-to-spectrum methods for the generation of elastic floor acceleration spectra. Procedia Engineering, 2017, 199, 3552-3557.	1.2	4
47	Component Fragilities and System Performance of Health Care Facilities. Geotechnical, Geological and Earthquake Engineering, 2014, , 357-384.	0.1	3
48	Nonâ€linear dynamic analysis of buildings founded on piles: Simplified modelling strategies for soilâ€foundationâ€structure interaction. Earthquake Engineering and Structural Dynamics, 2022, 51, 744-763.	2.5	3
49	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 45.	1.4	2
50	Open Issues in the Seismic Design and Assessment of Bridges. Geotechnical, Geological and Earthquake Engineering, 2010, , 311-330.	0.1	2
51	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
52	Title is missing!. Journal of Earthquake Engineering, 2002, 6, 131.	1.4	1
53	Title is missing!. Journal of Earthquake Engineering, 2006, 10, 31.	1.4	1
54	Title is missing!. Journal of Earthquake Engineering, 2006, 10, 195.	1.4	1

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55	Probabilistic Inference in the Physical Simulation of Interdependent Critical Infrastructure Systems. Lecture Notes in Computer Science, 2014, , 328-338.	1.0	1
56	Explicit Probabilistic Seismic Design of RC Structures Through an Elastic Proxy. , 2011, , 169-184.		1
57	Risk-Based Optimization of Bracing Systems for Seismic Retrofitting of RC Buildings. Journal of Structural Engineering, 2022, 148, .	1.7	1
58	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
59	Estimation of Floor Response Spectra Using the Uncoupled Modal Response History Analysis. Applied Mechanics and Materials, 2016, 847, 266-272.	0.2	0
60	An equivalent linear procedure for probabilistic displacement-based design of RC structures under earthquake. Procedia Engineering, 2017, 199, 3570-3575.	1.2	0
61	A Spectrum-to-Spectrum Method for Calculating Uniform Hazard Floor Response Spectra. , 2017, , .		0
62	Research Needs Towards a Resilient Community. Geotechnical, Geological and Earthquake Engineering, 2018, , 661-691.	0.1	0
63	Direct Probability-Based Seismic Design of RC Buildings. Geotechnical, Geological and Earthquake Engineering, 2010, , 235-244.	0.1	0