Fabio Biondini

List of Publications by Year
in descending order

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Version: 2024-02-01

54	1,774	257357	276775
papers	citations	24 h-index	41 g-index

58	58	58	936
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Life-Cycle Performance of Deteriorating Structural Systems under Uncertainty: Review. Journal of Structural Engineering, 2016, 142, .	1.7	190
2	Cellular Automata Approach to Durability Analysis of Concrete Structures in Aggressive Environments. Journal of Structural Engineering, 2004, 130, 1724-1737.	1.7	114
3	Lifetime seismic performance of concrete bridges exposed to corrosion. Structure and Infrastructure Engineering, 2014, 10, 880-900.	2.0	113
4	Probabilistic Service Life Assessment and Maintenance Planning of Concrete Structures. Journal of Structural Engineering, 2006, 132, 810-825.	1.7	97
5	Seismic resilience of concrete structures under corrosion. Earthquake Engineering and Structural Dynamics, 2015, 44, 2445-2466.	2.5	95
6	Fuzzy reliability analysis of concrete structures. Computers and Structures, 2004, 82, 1033-1052.	2.4	86
7	Deteriorating beam finite element for nonlinear analysis of concrete structures under corrosion. Structure and Infrastructure Engineering, 2015, 11, 519-532.	2.0	81
8	Friction-based dissipative devices for precast concrete panels. Engineering Structures, 2017, 147, 356-371.	2.6	68
9	Role of wall panel connections on the seismic performance of precast structures. Bulletin of Earthquake Engineering, 2013, 11, 1061-1081.	2.3	66
10	Probabilistic limit analysis and lifetime prediction of concrete structures. Structure and Infrastructure Engineering, 2008, 4, 399-412.	2.0	60
11	Lifetime reliability-based optimization of reinforced concrete cross-sections under corrosion. Structural Safety, 2009, 31, 483-489.	2.8	48
12	Reliability of material and geometrically non-linear reinforced and prestressed concrete structures. Computers and Structures, 2004, 82, 1021-1031.	2.4	43
13	Probabilistic life-cycle seismic resilience assessment of aging bridge networks considering infrastructure upgrading. Structure and Infrastructure Engineering, 2020, 16, 659-675.	2.0	42
14	Seismic performance of concrete structures exposed to corrosion: case studies of low-rise precast buildings. Structure and Infrastructure Engineering, 2011, 7, 109-119.	2.0	39
15	Lifetime seismic resilience of aging bridges and road networks. Structure and Infrastructure Engineering, 2020, 16, 266-286.	2.0	37
16	Experimental tests on multiple-slit devices for precast concrete panels. Engineering Structures, 2018, 167, 420-430.	2.6	34
17	On the accuracy of diffusion models for life-cycle assessment of concrete structures. Structure and Infrastructure Engineering, 2016, 12, 1202-1215.	2.0	33
18	Life-Cycle Performance of Civil Structure and Infrastructure Systems: Survey. Journal of Structural Engineering, 2018, 144, .	1.7	33

#	Article	IF	Citations
19	Seismic performance of precast concrete structures with energy dissipating cladding panel connection systems. Structural Concrete, 2018, 19, 1908-1926.	1.5	33
20	Uncertainty effects on lifetime structural performance of cable-stayed bridges. Probabilistic Engineering Mechanics, 2008, 23, 509-522.	1.3	31
21	An approach to reliability-based shape and topology optimization of truss structures. Engineering Optimization, 2012, 44, 37-53.	1.5	30
22	Diaphragm effectiveness of precast concrete structures with cladding panels under seismic action. Bulletin of Earthquake Engineering, 2019, 17, 473-495.	2.3	30
23	Probabilistic Calibration and Experimental Validation of the Seismic Design Criteria for One-Story Concrete Frames. Journal of Earthquake Engineering, 2009, 13, 426-462.	1.4	25
24	Cellular Finite Beam Element for Nonlinear Analysis of Concrete Structures under Fire. Journal of Structural Engineering, 2011, 137, 543-558.	1.7	25
25	Stress path adapting Strut-and-Tie models in cracked and uncracked R.C. elements. Structural Engineering and Mechanics, 2001, 12, 685-698.	1.0	25
26	Experimental investigation on the influence of silicone sealant on the seismic behaviour of precast faÃ§ades. Bulletin of Earthquake Engineering, 2017, 15, 1771-1787.	2.3	24
27	Experimental Investigation on Steel W-Shaped Folded Plate Dissipative Connectors for Horizontal Precast Concrete Cladding Panels. Journal of Earthquake Engineering, 2018, 22, 778-800.	1.4	24
28	Finite strip modeling for optimal design of prestressed folded plate structures. Engineering Structures, 2004, 26, 1043-1054.	2.6	20
29	Time-variant redundancy and failure times of deteriorating concrete structures considering multiple limit states. Structure and Infrastructure Engineering, 2017, 13, 94-106.	2.0	20
30	Probabilistic seismic assessment of multistory precast concrete frames exposed to corrosion. Bulletin of Earthquake Engineering, 2014, 12, 2665-2681.	2.3	18
31	Life-cycle cost-based risk assessment of aging bridge networks. Structure and Infrastructure Engineering, 2021, 17, 515-533.	2.0	16
32	Resilience of aging structures and infrastructure systems with emphasis on seismic resilience of bridges and road networks: Review. , 2022, 1, 23-41.		16
33	Time-Variant Structural Performance of the Certosa Cable-Stayed Bridge. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2006, 16, 235-244.	0.5	15
34	A Measure of Lifetime Structural Robustness. , 2009, , .		15
35	Strain penetration effect on cyclic response of corroded RC columns. Engineering Structures, 2021, 243, 112653.	2.6	15
36	Modelling and Seismic Response Analysis of Non-residential Single-storey Existing Precast Buildings in Italy. Journal of Earthquake Engineering, 2023, 27, 1047-1068.	1.4	15

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37	Influence of the exposure scenario and spatial correlation on the probabilistic life-cycle seismic performance of deteriorating RC frames. Structure and Infrastructure Engineering, 2018, 14, 986-996.	2.0	14
38	Capacity design and seismic performance of multi-storey precast structures. European Journal of Environmental and Civil Engineering, 2010, 14, 11-28.	1.0	12
39	Seismic assessment of existing precast structures with dry-friction beam-to-column joints. Bulletin of Earthquake Engineering, 2018, 16, 2067-2086.	2.3	12
40	Design, assessment, monitoring and maintenance of bridges and infrastructure networks. Structure and Infrastructure Engineering, 2015, 11, 413-414.	2.0	9
41	Evolutionary design of structural systems with time-variant performance. Structure and Infrastructure Engineering, 2008, 4, 163-176.	2.0	8
42	Multi-Stripe Seismic Assessment of Precast Industrial Buildings With Cladding Panels. Frontiers in Built Environment, 2021, 7, .	1.2	8
43	Earthquake-induced damage updating for remaining-life assessment of steel frame substructure systems. Mechanical Systems and Signal Processing, 2021, 159, 107782.	4.4	8
44	Time-Variant Robustness of Aging Structures. , 2014, , 163-200.		8
45	Experimental evaluation on the seismic behavior of precast concrete shear walls with slip-friction devices. Journal of Building Engineering, 2022, 52, 104507.	1.6	4
46	Bridge design, maintenance and management. Structure and Infrastructure Engineering, 2014, 10, 419-419.	2.0	2
47	Advances in life-cycle civil engineering. Structure and Infrastructure Engineering, 2014, 10, 843-843.	2.0	2
48	Life-Cycle Assessment of Deteriorating RC Bridges Using Artificial Neural Networks. Journal of Infrastructure Systems, 2022, 28, .	1.0	2
49	Life-Cycle Performance of Deteriorating Structures. , 2019, , 33-64.		1
50	Capacity design and seismic performance of multi-storey precast structures. European Journal of Environmental and Civil Engineering, 2010, 14, 11-28.	1.0	1
51	The Monitoring Guidelines of the Lombardia Region in Italy. , 2022, 17, .		1
52	Effects of Structural Deterioration and Infrastructure Upgrading on the Life-cycle Seismic Resilience of Bridge Networks. IABSE Symposium Report, 2018, , .	0.0	0
53	Seismic Resilience of Deteriorating RC Bridges and Road Networks under Climate Change. , 2019, , .		0
54	Simulation-Based Life-Cycle Structural Reliability of Deteriorating RC Bridges Using Bayesian Updating. Lecture Notes in Civil Engineering, 2022, , 1368-1376.	0.3	0