

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	1,630 citations	25 h-index	38 g-index
75 ext. papers	2,364 ext. citations	4 avg, IF	5.87 L-index

#	Paper	IF	Citations
71	Classification of failure mode and prediction of shear strength for reinforced concrete beam-column joints using machine learning techniques. <i>Engineering Structures</i> , 2018 , 160, 85-94	4.7	103
70	Artificial neural network based multi-dimensional fragility development of skewed concrete bridge classes. <i>Engineering Structures</i> , 2018 , 162, 166-176	4.7	97
69	Machine LearningBased Failure Mode Recognition of Circular Reinforced Concrete Bridge Columns: Comparative Study. <i>Journal of Structural Engineering</i> , 2019 , 145, 04019104	3	75
68	Failure mode and effects analysis of RC members based on machine-learning-based SHapley Additive exPlanations (SHAP) approach. <i>Engineering Structures</i> , 2020 , 219, 110927	4.7	71
67	Critical uncertainty parameters influencing seismic performance of bridges using Lasso regression. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 784-801	4	69
66	Data-driven machine-learning-based seismic failure mode identification of reinforced concrete shear walls. <i>Engineering Structures</i> , 2020 , 208, 110331	4.7	68
65	Framework of aftershock fragility assessmentBase studies: older California reinforced concrete building frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 2617-2636	4	66
64	Rapid seismic damage evaluation of bridge portfolios using machine learning techniques. <i>Engineering Structures</i> , 2019 , 201, 109785	4.7	58
63	Statistical models for shear strength of RC beam-column joints using machine-learning techniques. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 2075-2095	4	58
62	Fragility curves for non-ductile reinforced concrete frames that exhibit different component response mechanisms. <i>Engineering Structures</i> , 2015 , 85, 127-143	4.7	57
61	ANCOVA-based grouping of bridge classes for seismic fragility assessment. <i>Engineering Structures</i> , 2016 , 123, 379-394	4.7	46
60	Stripe-based fragility analysis of multispan concrete bridge classes using machine learning techniques. <i>Earthquake Engineering and Structural Dynamics</i> , 2019 , 48, 1238-1255	4	43
59	Geometric parameters affecting seismic fragilities of curved multi-frame concrete box-girder bridges with integral abutments. <i>Engineering Structures</i> , 2016 , 122, 121-143	4.7	43
58	Machine Vision-Enhanced Postearthquake Inspection. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 622-634	5	41
57	Parameterized Seismic Fragility Curves for Curved Multi-frame Concrete Box-Girder Bridges Using Bayesian Parameter Estimation. <i>Journal of Earthquake Engineering</i> , 2019 , 23, 954-979	1.8	41
56	Optimal Intensity Measures in Probabilistic Seismic Demand Models of Cable-Stayed Bridges Subjected to Pulse-Like Ground Motions. <i>Journal of Bridge Engineering</i> , 2019 , 24, 04018118	2.7	40
55	Bridge classes for regional seismic risk assessment: Improving HAZUS models. <i>Engineering Structures</i> , 2017 , 148, 755-766	4.7	38

54	Damage assessment of older highway bridges subjected to three-dimensional ground motions: Characterization of shear force interaction on seismic fragilities. <i>Engineering Structures</i> , 2015 , 87, 47-57	4.7	38
53	A new experimental investigation into the effects of reinforcing mortar beams with superelastic SMA fibers on controlling and closing cracks. <i>Composites Part B: Engineering</i> , 2018 , 137, 140-152	10	38
52	Seismic fragility of lightly reinforced concrete frames with masonry infills. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 1783-1803	4	37
51	Impact of Spatial Variability Parameters on Seismic Fragilities of a Cable-Stayed Bridge Subjected to Differential Support Motions. <i>Journal of Bridge Engineering</i> , 2017 , 22, 04017013	2.7	36
50	An innovative seismic bracing system based on a superelastic shape memory alloy ring. <i>Smart Materials and Structures</i> , 2016 , 25, 055030	3.4	36
49	Automated Damage Index Estimation of Reinforced Concrete Columns for Post-Earthquake Evaluations. <i>Journal of Structural Engineering</i> , 2015 , 141, 04014228	3	33
48	External jacket of FRP wire for confining concrete and its advantages. <i>Engineering Structures</i> , 2013 , 56, 555-566	4.7	30
47	Post-repair effect of column jackets on aftershock fragilities of damaged RC bridges subjected to successive earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 1149-1168	4	25
46	Seismic fragility analysis of a buried gas pipeline based on nonlinear time-history analysis. <i>International Journal of Steel Structures</i> , 2016 , 16, 231-242	1.3	24
45	Performance-based grouping methods of bridge classes for regional seismic risk assessment: Application of ANOVA, ANCOVA, and non-parametric approaches. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 2587-2602	4	19
44	Explainable machine learning models for punching shear strength estimation of flat slabs without transverse reinforcement. <i>Journal of Building Engineering</i> , 2021 , 39, 102300	5.2	19
43	Effect of steel wrapping jackets on the bond strength of concrete and the lateral performance of circular RC columns. <i>Engineering Structures</i> , 2013 , 48, 43-54	4.7	17
42	Risk assessment for a long-span cable-stayed bridge subjected to multiple support excitations. <i>Engineering Structures</i> , 2018 , 176, 220-230	4.7	17
41	Seismic fragility assessment of long-span cable-stayed bridges in China. <i>Advances in Structural Engineering</i> , 2016 , 19, 1797-1812	1.9	16
40	Bond behavior of steel deformed bars embedded in concrete confined by FRP wire jackets. <i>Construction and Building Materials</i> , 2014 , 68, 716-725	6.7	15
39	Machine learning-based approaches for seismic demand and collapse of ductile reinforced concrete building frames. <i>Journal of Building Engineering</i> , 2021 , 34, 101905	5.2	15
38	Probabilistic Seismic Vulnerability Assessment of Tall Horizontally Curved Concrete Bridges in California. <i>Journal of Performance of Constructed Facilities</i> , 2018 , 32, 04018080	2	14
37	Active Reinforcing Fiber of Cementitious Materials Using Crimped NiTi SMA Fiber for Crack-Bridging and Pullout Resistance. <i>Materials</i> , 2020 , 13,	3.5	13

36	Ground Motion-Dependent Rapid Damage Assessment of Structures Based on Wavelet Transform and Image Analysis Techniques. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020230	3	12
35	Skew Adjustment Factors for Fragilities of California Box-Girder Bridges Subjected to near-Fault and Far-Field Ground Motions. <i>Journal of Bridge Engineering</i> , 2019 , 24, 04018109	2.7	12
34	Vibration tests of precompressed rubber springs and a flag-shaped smart damper. <i>Engineering Structures</i> , 2017 , 132, 372-382	4.7	11
33	Evaluation of economic losses and collapse safety of steel moment frame buildings designed for risk categories II and IV. <i>Engineering Structures</i> , 2019 , 201, 109830	4.7	11
32	Seismic response prediction and modeling considerations for curved and skewed concrete box-girder bridges. <i>Earthquake and Structures</i> , 2015 , 9, 1153-1179		10
31	Regional Seismic Risk Assessment of Infrastructure Systems through Machine Learning: Active Learning Approach. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020269	3	10
30	Earthquake-induced sloshing effects on the hydrodynamic pressure response of rigid cylindrical liquid storage tanks using CFD simulation. <i>Engineering Structures</i> , 2019 , 197, 109376	4.7	9
29	Seismic fragility curves for California concrete bridges with flared two-column bents. <i>Bulletin of Earthquake Engineering</i> , 2019 , 17, 4299-4319	3.7	8
28	Multi-hazard assessment and mitigation for seismically-deficient RC building frames using artificial neural network models. <i>Engineering Structures</i> , 2020 , 207, 110204	4.7	8
27	Machine-learning interpretability techniques for seismic performance assessment of infrastructure systems. <i>Engineering Structures</i> , 2022 , 250, 112883	4.7	8
26	Adjustment Factors to Account for the Effect of Bridge Deck Horizontal Curvature on the Seismic Response of Concrete Box-Girder Bridges in California. <i>Earthquake Spectra</i> , 2018 , 34, 893-914	3.4	8
25	Seismic mobile shaker testing of full-scale RC building frames with high-strength NSM-FRP hybrid retrofit system. <i>Composite Structures</i> , 2019 , 226, 111207	5.3	7
24	Retrofit scheme of FRP jacketing system for blast damage mitigation of non-ductile RC building frames. <i>Composite Structures</i> , 2019 , 228, 111328	5.3	6
23	Mainshock-aftershock response analyses of FRP-jacketed columns in existing RC building frames. <i>Engineering Structures</i> , 2018 , 165, 315-330	4.7	6
22	Quantifying the effects of long-duration earthquake ground motions on the financial losses of steel moment resisting frame buildings of varying design risk category. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 1451-1468	4	6
21	Self-centering and damping devices using SMA dual rings. <i>Smart Materials and Structures</i> , 2019 , 28, 085005	9.5	5
20	Seismic damage state predictions of reinforced concrete structures using stacked long short-term memory neural networks. <i>Journal of Building Engineering</i> , 2022 , 46, 103737	5.2	4
19	Bridge fragilities to network fragilities in seismic scenarios: An integrated approach. <i>Engineering Structures</i> , 2021 , 237, 112212	4.7	4

18	Investigation of MRS and SMA Dampers Effects on Bridge Seismic Resistance Employing Analytical Models. <i>International Journal of Steel Structures</i> , 2018 , 18, 1325-1335	1.3	3
17	Assessment of probabilistic seismic performance of RC columns jacketed by FRP winding wires using analytical models. <i>Engineering Structures</i> , 2018 , 171, 629-646	4.7	3
16	Estimating the plastic hinge length of rectangular concrete columns reinforced with NiTi superelastic shape memory alloys. <i>Engineering Structures</i> , 2022 , 252, 113641	4.7	3
15	Enabling shape memory effect wires for acting like superelastic wires in terms of showing recentering capacity in mortar beams. <i>Construction and Building Materials</i> , 2022 , 319, 126047	6.7	3
14	Phenomenological hysteretic model for superelastic NiTi shape memory alloys accounting for functional degradation. <i>Earthquake Engineering and Structural Dynamics</i> ,	4	3
13	Active action of prestressing on direct tensile behavior of mortar reinforced with NiTi SMA crimped fibers. <i>Composite Structures</i> , 2022 , 281, 115119	5.3	2
12	Post-fire damage assessment of Korean bridges using thermal-structure interaction fire analysis. <i>Magazine of Concrete Research</i> , 2018 , 70, 938-953	2	2
11	Experimental investigation on the performance of flexural displacement recovery using crimped shape memory alloy fibers. <i>Construction and Building Materials</i> , 2021 , 306, 124908	6.7	2
10	Adaptive hysteretic model for reinforced concrete columns including variations in axial force and shear span length. <i>Earthquake Engineering and Structural Dynamics</i> ,	4	1
9	Seismic damage mitigation strategy using an FRP column jacketing system in gravity-designed reinforced concrete building frames. <i>Composite Structures</i> , 2021 , 279, 114700	5.3	1
8	Model parameter prediction of lumped plasticity model for nonlinear simulation of circular reinforced concrete columns. <i>Engineering Structures</i> , 2021 , 245, 112820	4.7	1
7	Estimation of economic seismic loss of steel moment-frame buildings using a machine learning algorithm. <i>Engineering Structures</i> , 2022 , 254, 113877	4.7	0
6	Model development and seismic performance evaluation of rectangular reinforced concrete columns with short lap splices in existing building frames. <i>Engineering Structures</i> , 2021 , 245, 112922	4.7	0
5	Drift limit state predictions of rectangular reinforced concrete columns with superelastic shape memory alloy rebars. <i>Journal of Building Engineering</i> , 2022 , 54, 104546	5.2	0
4	Aftershock Fragility Assessment of Damaged RC Bridge Piers Repaired with CFRP Jackets under Successive Seismic Events. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2018 , 22, 271-280	0.2	
3	Full-Scale Shaker Testing of Non-Ductile RC Frame Structure Retrofitted Using High-Strength Near Surface Mounted Rebars and Carbon FRP Sheets. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2019 , 23, 43-54	0.2	
2	Damage Potential of a Domestic Metropolitan Railway Bridge subjected to 2016 Gyeongju Earthquake. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2016 , 20, 461-472	0.2	
1	Hysteretic Model for Superelastic NiTi Shape Memory Alloys. <i>Journal of Korean Society of Steel Construction</i> , 2021 , 33, 373-381	0.5	

