

# Jong-Su Jeon

## List of Publications by Year in descending order

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75  
papers

3,179  
citations

147566

31  
h-index

161609

54  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1371  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.6	354
2	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.	2.6	205
3	Artificial neural network based multi-dimensional fragility development of skewed concrete bridge classes. <i>Engineering Structures</i> , 2018, 162, 166-176.	2.6	170
4	Data-driven machine-learning-based seismic failure mode identification of reinforced concrete shear walls. <i>Engineering Structures</i> , 2020, 208, 110331.	2.6	170
5	Machine Learning-Based Failure Mode Recognition of Circular Reinforced Concrete Bridge Columns: Comparative Study. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	158
6	Rapid seismic damage evaluation of bridge portfolios using machine learning techniques. <i>Engineering Structures</i> , 2019, 201, 109785.	2.6	113
7	Critical uncertainty parameters influencing seismic performance of bridges using Lasso regression. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 784-801.	2.5	111
8	Framework of aftershock fragility assessment—case studies: older California reinforced concrete building frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2617-2636.	2.5	91
9	Fragility curves for non-ductile reinforced concrete frames that exhibit different component response mechanisms. <i>Engineering Structures</i> , 2015, 85, 127-143.	2.6	91
10	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.	2.5	83
11	Stripe-based fragility analysis of multispan concrete bridge classes using machine learning techniques. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 1238-1255.	2.5	80
12	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, .	1.4	75
13	ANCOVA-based grouping of bridge classes for seismic fragility assessment. <i>Engineering Structures</i> , 2016, 123, 379-394.	2.6	66
14	Automated Damage Index Estimation of Reinforced Concrete Columns for Post-Earthquake Evaluations. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	64
15	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, .	1.4	63
16	Machine-learning interpretability techniques for seismic performance assessment of infrastructure systems. <i>Engineering Structures</i> , 2022, 250, 112883.	2.6	61
17	Seismic fragility of lightly reinforced concrete frames with masonry infills. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1783-1803.	2.5	58
18	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.	1.4	57

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19	Geometric parameters affecting seismic fragilities of curved multi-frame concrete box-girder bridges with integral abutments. <i>Engineering Structures</i> , 2016, 122, 121-143.	2.6	53
20	Bridge classes for regional seismic risk assessment: Improving HAZUS models. <i>Engineering Structures</i> , 2017, 148, 755-766.	2.6	53
21	Machine Vision-Enhanced Postearthquake Inspection. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 622-634.	2.5	51
22	An innovative seismic bracing system based on a superelastic shape memory alloy ring. <i>Smart Materials and Structures</i> , 2016, 25, 055030.	1.8	51
23	Damage assessment of older highway bridges subjected to three-dimensional ground motions: Characterization of shear-axial force interaction on seismic fragilities. <i>Engineering Structures</i> , 2015, 87, 47-57.	2.6	49
24	Explainable machine learning models for punching shear strength estimation of flat slabs without transverse reinforcement. <i>Journal of Building Engineering</i> , 2021, 39, 102300.	1.6	49
25	Data-driven rapid damage evaluation for life-cycle seismic assessment of regional reinforced concrete bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 2730-2751.	2.5	49
26	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.	5.9	47
27	Risk assessment for a long-span cable-stayed bridge subjected to multiple support excitations. <i>Engineering Structures</i> , 2018, 176, 220-230.	2.6	41
28	Machine learning-based approaches for seismic demand and collapse of ductile reinforced concrete building frames. <i>Journal of Building Engineering</i> , 2021, 34, 101905.	1.6	41
29	Ground Motion-Dependent Rapid Damage Assessment of Structures Based on Wavelet Transform and Image Analysis Techniques. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	35
30	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.	0.6	34
31	External jacket of FRP wire for confining concrete and its advantages. <i>Engineering Structures</i> , 2013, 56, 555-566.	2.6	33
32	Seismic fragility assessment of long-span cable-stayed bridges in China. <i>Advances in Structural Engineering</i> , 2016, 19, 1797-1812.	1.2	32
33	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.	2.5	31
34	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.	2.5	27
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, .	1.4	25
36	Regional Seismic Risk Assessment of Infrastructure Systems through Machine Learning: Active Learning Approach. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	25

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37	Probabilistic Seismic Vulnerability Assessment of Tall Horizontally Curved Concrete Bridges in California. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	23
38	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.	2.6	22
39	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.	2.6	22
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.	3.2	19
41	Active Reinforcing Fiber of Cementitious Materials Using Crimped NiTi SMA Fiber for Crack-Bridging and Pullout Resistance. <i>Materials</i> , 2020, 13, 3845.	1.3	19
42	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.	2.6	18
43	Seismic fragility curves for California concrete bridges with flared two-column bents. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4299-4319.	2.3	18
44	Vibration tests of precompressed rubber springs and a flag-shaped smart damper. <i>Engineering Structures</i> , 2017, 132, 372-382.	2.6	16
45	Multi-hazard assessment and mitigation for seismically-deficient RC building frames using artificial neural network models. <i>Engineering Structures</i> , 2020, 207, 110204.	2.6	13
46	Estimation of economic seismic loss of steel moment-frame buildings using a machine learning algorithm. <i>Engineering Structures</i> , 2022, 254, 113877.	2.6	13
47	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.	3.1	12
48	Self-centering and damping devices using SMA dual rings. <i>Smart Materials and Structures</i> , 2019, 28, 085005.	1.8	12
49	Bridge fragilities to network fragilities in seismic scenarios: An integrated approach. <i>Engineering Structures</i> , 2021, 237, 112212.	2.6	12
50	Seismic response prediction and modeling considerations for curved and skewed concrete box-girder bridges. <i>Earthquake and Structures</i> , 2015, 9, 1153-1179.	1.0	12
51	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.	1.6	12
52	Retrofit scheme of FRP jacketing system for blast damage mitigation of non-ductile RC building frames. <i>Composite Structures</i> , 2019, 228, 111328.	3.1	11
53	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.	2.5	11
54	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.	3.2	11

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55	Phenomenological hysteretic model for superelastic NiTi shape memory alloys accounting for functional degradation. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 277-309.	2.5	10
56	Mainshock-aftershock response analyses of FRP-jacketed columns in existing RC building frames. <i>Engineering Structures</i> , 2018, 165, 315-330.	2.6	9
57	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.	1.6	8
58	Model parameter prediction of lumped plasticity model for nonlinear simulation of circular reinforced concrete columns. <i>Engineering Structures</i> , 2021, 245, 112820.	2.6	8
59	Estimating the plastic hinge length of rectangular concrete columns reinforced with NiTi superelastic shape memory alloys. <i>Engineering Structures</i> , 2022, 252, 113641.	2.6	8
60	Active action of prestressing on direct tensile behavior of mortar reinforced with NiTi SMA crimped fibers. <i>Composite Structures</i> , 2022, 281, 115119.	3.1	8
61	Machine Learning-Based Seismic Reliability Assessment of Bridge Networks. <i>Journal of Structural Engineering</i> , 2022, 148, .	1.7	8
62	Experimental investigation on the performance of flexural displacement recovery using crimped shape memory alloy fibers. <i>Construction and Building Materials</i> , 2021, 306, 124908.	3.2	7
63	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.	0.6	6
64	Adaptive hysteretic model for reinforced concrete columns including variations in axial force and shear span length. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 4001-4031.	2.5	6
65	Assessment of probabilistic seismic performance of RC columns jacketed by FRP winding wires using analytical models. <i>Engineering Structures</i> , 2018, 171, 629-646.	2.6	5
66	Post-fire damage assessment of Korean bridges using thermal-structure interaction fire analysis. <i>Magazine of Concrete Research</i> , 2018, 70, 938-953.	0.9	4
67	Seismic damage mitigation strategy using an FRP column jacketing system in gravity-designed reinforced concrete building frames. <i>Composite Structures</i> , 2022, 279, 114700.	3.1	4
68	Drift limit state predictions of rectangular reinforced concrete columns with superelastic shape memory alloy rebars. <i>Journal of Building Engineering</i> , 2022, 54, 104546.	1.6	3
69	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.	2.6	2
70	Probabilistic residual deformation prediction model for rectangular reinforced concrete columns. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1994-2015.	2.5	2
71	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.	0.1	1
72	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.	0.1	1

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73	Full-Scale Shaker Testing of Non-Ductile RC Frame Structure Retrofitted Using High-Strength Near Surface Mounted Rebars and Carbon FRP Sheets. Journal of the Earthquake Engineering Society of Korea, 2019, 23, 43-54.	0.1	1
74	Seismic Fragilities of Curved Concrete Bridges via Bayesian Parameter Estimation Method. , 0, , .		0
75	Hysteretic Model for Superelastic NiTi Shape Memory Alloys. Journal of Korean Society of Steel Construction, 2021, 33, 373-381.	0.2	0