

# De-Cheng Feng

## 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.

88

papers

1,437

citations

22

h-index

33

g-index

96

ext. papers

2,338

ext. citations

3.6

avg, IF

6

L-index

#	Paper	IF	Citations
88	Machine learning-based compressive strength prediction for concrete: An adaptive boosting approach. <i>Construction and Building Materials</i> , <b>2020</b> , 230, 117000	6.7	108
87	Phase-field regularized cohesive zone model (CZM) and size effect of concrete. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 197, 66-79	4.2	71
86	Failure mode classification and bearing capacity prediction for reinforced concrete columns based on ensemble machine learning algorithm. <i>Advanced Engineering Informatics</i> , <b>2020</b> , 45, 101126	7.4	61
85	Probabilistic failure analysis of reinforced concrete beam-column sub-assembly under column removal scenario. <i>Engineering Failure Analysis</i> , <b>2019</b> , 100, 381-392	3.2	57
84	Progressive collapse performance analysis of precast reinforced concrete structures. <i>Structural Design of Tall and Special Buildings</i> , <b>2019</b> , 28, e1588	1.8	55
83	Finite element modelling approach for precast reinforced concrete beam-to-column connections under cyclic loading. <i>Engineering Structures</i> , <b>2018</b> , 174, 49-66	4.7	51
82	Collapse simulation of reinforced concrete frame structures. <i>Structural Design of Tall and Special Buildings</i> , <b>2016</b> , 25, 578-601	1.8	47
81	Softened Damage-Plasticity Model for Analysis of Cracked Reinforced Concrete Structures. <i>Journal of Structural Engineering</i> , <b>2018</b> , 144, 04018044	3	44
80	Stochastic Nonlinear Behavior of Reinforced Concrete Frames. II: Numerical Simulation. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142, 04015163	3	40
79	A flexure-shear Timoshenko fiber beam element based on softened damage-plasticity model. <i>Engineering Structures</i> , <b>2017</b> , 140, 483-497	4.7	39
78	Implementing ensemble learning methods to predict the shear strength of RC deep beams with/without web reinforcements. <i>Engineering Structures</i> , <b>2021</b> , 235, 111979	4.7	39
77	Numerical Investigation on the Progressive Collapse Behavior of Precast Reinforced Concrete Frame Subassemblages. <i>Journal of Performance of Constructed Facilities</i> , <b>2018</b> , 32, 04018027	2	38
76	Development of a Bridge Weigh-in-Motion System Based on Long-Gauge Fiber Bragg Grating Sensors. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018063	2.7	33
75	Enriched Force-Based Frame Element with Evolutionary Plastic Hinge. <i>Journal of Structural Engineering</i> , <b>2017</b> , 143, 06017005	3	33
74	Implicit Gradient Delocalization Method for Force-Based Frame Element. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142, 04015122	3	31
73	Experimental study on the flexural behavior of concrete beams reinforced with bundled hybrid steel/FRP bars. <i>Engineering Structures</i> , <b>2019</b> , 197, 109443	4.7	29
72	Robustness quantification of reinforced concrete structures subjected to progressive collapse via the probability density evolution method. <i>Engineering Structures</i> , <b>2020</b> , 202, 109877	4.7	29

71	An efficient fiber beam-column element considering flexure-shear interaction and anchorage bond-slip effect for cyclic analysis of RC structures. <i>Bulletin of Earthquake Engineering</i> , <b>2018</b> , 16, 5425-5452	3.7	29
70	Data-Driven Approach to Predict the Plastic Hinge Length of Reinforced Concrete Columns and Its Application. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04020332	3	28
69	Cyclic behavior modeling of reinforced concrete shear walls based on softened damage-plasticity model. <i>Engineering Structures</i> , <b>2018</b> , 166, 363-375	4.7	26
68	Stochastic Nonlinear Behavior of Reinforced Concrete Frames. I: Experimental Investigation. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142, 04015162	3	25
67	Development of a bridge weigh-in-motion method considering the presence of multiple vehicles. <i>Engineering Structures</i> , <b>2019</b> , 191, 724-739	4.7	24
66	Damage detection of highway bridges based on long-gauge strain response under stochastic traffic flow. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 127, 551-572	7.8	22
65	Experimental study of prefabricated RC column-foundation assemblies with two different connection methods and using large-diameter reinforcing bars. <i>Engineering Structures</i> , <b>2020</b> , 205, 110075	4.7	21
64	Stochastic dynamic response analysis and reliability assessment of non-linear structures under fully non-stationary ground motions. <i>Structural Safety</i> , <b>2019</b> , 79, 94-106	4.9	20
63	Interpretable XGBoost-SHAP Machine-Learning Model for Shear Strength Prediction of Squat RC Walls. <i>Journal of Structural Engineering</i> , <b>2021</b> , 147, 04021173	3	20
62	Stochastic damage hysteretic model for concrete based on micromechanical approach. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 83, 15-25	2.8	18
61	Seismic performance upgrade of RC frame buildings using precast bolt-connected steel-plate reinforced concrete frame-braces. <i>Engineering Structures</i> , <b>2019</b> , 195, 382-399	4.7	17
60	Experimental and Numerical Investigation on Progressive Collapse Resistance of Post-Tensioned Precast Concrete Beam-Column Subassemblages. <i>Journal of Structural Engineering</i> , <b>2020</b> , 146, 04020170 <sup>3</sup>	3	17
59	A machine learning-based time-dependent shear strength model for corroded reinforced concrete beams. <i>Journal of Building Engineering</i> , <b>2021</b> , 36, 102118	5.2	16
58	Seismic control of modularized suspended structures with optimal vertical distributions of the secondary structure parameters. <i>Engineering Structures</i> , <b>2019</b> , 183, 160-179	4.7	16
57	Time-dependent reliability-based redundancy assessment of deteriorated RC structures against progressive collapse considering corrosion effect. <i>Structural Safety</i> , <b>2021</b> , 89, 102061	4.9	15
56	Investigation of Modeling Strategies for Progressive Collapse Analysis of RC Frame Structures. <i>Journal of Performance of Constructed Facilities</i> , <b>2019</b> , 33, 04019063	2	14
55	Research on the seismic retrofitting performance of RC frames using SC-PBSPC BRBF substructures. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2020</b> , 49, 794-816	4	13
54	Seismic fragility analysis of shear-critical concrete columns considering corrosion induced deterioration effects. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2020</b> , 134, 106165	3.5	13

53	Seismic response analysis of nonlinear structures with uncertain parameters under stochastic ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2018</b> , 111, 149-159	3.5	13
52	A New Family of Explicit Model-Based Integration Algorithms for Structural Dynamic Analysis. <i>International Journal of Structural Stability and Dynamics</i> , <b>2019</b> , 19, 1950053	1.9	10
51	A new confined concrete model considering the strain gradient effect for RC columns under eccentric loading. <i>Magazine of Concrete Research</i> , <b>2018</b> , 70, 1189-1204	2	10
50	Experimental and Numerical Study of Outside Strengthening with Precast Bolt-Connected Steel Plate Reinforced Concrete Frame-Brace. <i>Journal of Performance of Constructed Facilities</i> , <b>2019</b> , 33, 04019077	2.7	9
49	Prestressing force monitoring method for a box girder through distributed long-gauge FBG sensors. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 015015	3.4	9
48	Pushover-based probabilistic seismic capacity assessment of RCFs retrofitted with PBSPC BRBF sub-structures. <i>Engineering Structures</i> , <b>2021</b> , 234, 111919	4.7	9
47	Machine-learning interpretability techniques for seismic performance assessment of infrastructure systems. <i>Engineering Structures</i> , <b>2022</b> , 250, 112883	4.7	8
46	State-of-the-art review and investigation of structural stability in multi-story modular buildings. <i>Journal of Building Engineering</i> , <b>2021</b> , 33, 101844	5.2	8
45	Development of data-driven prediction model for CFRP-steel bond strength by implementing ensemble learning algorithms. <i>Construction and Building Materials</i> , <b>2021</b> , 303, 124470	6.7	8
44	Physically based constitutive modeling of concrete fatigue and practical numerical method for cyclic loading simulation. <i>Engineering Failure Analysis</i> , <b>2019</b> , 101, 230-242	3.2	7
43	Parametric investigation of the assembled bolt-connected buckling-restrained brace and performance evaluation of its application into structural retrofit. <i>Journal of Building Engineering</i> , <b>2022</b> , 48, 103988	5.2	7
42	Seismic performance of a novel self-sustaining beam-column connection for precast concrete moment-resisting frames. <i>Engineering Structures</i> , <b>2020</b> , 222, 111096	4.7	7
41	Numerical study of the static and dynamic characteristics of reinforced concrete cassette structures for high-rise buildings. <i>Structural Design of Tall and Special Buildings</i> , <b>2018</b> , 28, e1574	1.8	7
40	A regularized force-based Timoshenko fiber element including flexure-shear interaction for cyclic analysis of RC structures. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 160, 59-74	5.5	6
39	A probabilistic bond strength model for corroded reinforced concrete based on weighted averaging of non-fine-tuned machine learning models. <i>Construction and Building Materials</i> , <b>2022</b> , 318, 125767	6.7	6
38	Analytical modeling of corroded RC columns considering flexure-shear interaction for seismic performance assessment. <i>Bulletin of Earthquake Engineering</i> , <b>2020</b> , 18, 2165-2190	3.7	6
37	Multi-scale stochastic damage model for concrete and its application to RC shear wall structure. <i>Engineering Computations</i> , <b>2018</b> , 35, 2287-2307	1.4	6
36	Probabilistic multi-hazard fragility analysis of RC bridges under earthquake-tsunami sequential events. <i>Engineering Structures</i> , <b>2021</b> , 238, 112250	4.7	6

35	Experimental and theoretical investigations of the existing reinforced concrete frames retrofitted with the novel external SC-PBSPC BRBF sub-structures. <i>Engineering Structures</i> , <b>2022</b> , 256, 113982	4.7	6
34	Comparative Study of Damage Detection Methods Based on Long-Gauge FBG for Highway Bridges. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
33	Probabilistic indicator to classify the failure mode of reinforced-concrete columns. <i>Magazine of Concrete Research</i> , <b>2019</b> , 71, 734-748	2	5
32	Shake table testing and computational investigation of the seismic performance of modularized suspended building systems. <i>Bulletin of Earthquake Engineering</i> , <b>2020</b> , 18, 5247-5279	3.7	5
31	Reusing & replacing performances of the AB-BRB with thin-walled concrete-infilled steel shells. <i>Thin-Walled Structures</i> , <b>2020</b> , 157, 107069	4.7	5
30	Shear Strength of Internal Reinforced Concrete Beam-Column Joints: Intelligent Modeling Approach and Sensitivity Analysis. <i>Advances in Civil Engineering</i> , <b>2020</b> , 2020, 1-19	1.3	5
29	Life-Cycle Performance Assessment of Aging Bridges Subjected to Tsunami Hazards. <i>Journal of Bridge Engineering</i> , <b>2021</b> , 26, 04021025	2.7	5
28	Bond-slip behavior of bundled steel/FRP bars and its implementation in high-fidelity FE modeling of reinforced concrete beams. <i>Construction and Building Materials</i> , <b>2021</b> , 286, 122887	6.7	5
27	Shaking table test and evaluation of a novel high-rise large span concrete cassette structure. <i>Engineering Structures</i> , <b>2021</b> , 238, 112205	4.7	5
26	Probabilistic Model Based on Bayesian Model Averaging for Predicting the Plastic Hinge Lengths of Reinforced Concrete Columns. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2021</b> , 147, 04021066	2.4	5
25	Life-cycle seismic performance assessment of aging RC bridges considering multi-failure modes of bridge columns. <i>Engineering Structures</i> , <b>2021</b> , 244, 112818	4.7	5
24	Reliability-based vehicle weight limit determination for urban bridge network subjected to stochastic traffic flow considering vehicle-bridge coupling. <i>Engineering Structures</i> , <b>2021</b> , 247, 113166	4.7	5
23	Multi-Cross-Reference Method for Highway-Bridge Damage Identification Based on Long-Gauge Fiber Bragg-Grating Sensors. <i>Journal of Bridge Engineering</i> , <b>2020</b> , 25, 04020023	2.7	4
22	Damage mechanics-based modeling approaches for cyclic analysis of precast concrete structures: A comparative study. <i>International Journal of Damage Mechanics</i> , <b>2020</b> , 29, 965-987	3	4
21	Near fault ground motion effects on seismic resilience of frame structures damaged in Wenchuan earthquake. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 16, 1347-1363	2.9	4
20	Efficient numerical model for progressive collapse analysis of prestressed concrete frame structures. <i>Engineering Failure Analysis</i> , <b>2021</b> , 129, 105683	3.2	4
19	Experimental study on the seismic performance of novel precast reinforced concrete grid moment-resisting frames. <i>Structural Concrete</i> , <b>2020</b> , 21, 2028-2043	2.6	3
18	Cross-level fragility analysis of modularized suspended buildings based on experimentally validated numerical models. <i>Structural Design of Tall and Special Buildings</i> , <b>2020</b> , 29, e1778	1.8	3

17	Improved Displacement-Based Timoshenko Beam Element with Enhanced Strains. <i>Journal of Structural Engineering</i> , <b>2020</b> , 146, 04019221	3	3
16	Random fields representation over manifolds via isometric feature mapping-based dimension reduction. <i>Computer-Aided Civil and Infrastructure Engineering</i> ,	8.4	3
15	Dynamic and Probabilistic Seismic Performance Assessment of Precast Prestressed Rcfs Incorporating Slab Influence Through Three-Dimensional Spatial Model		2
14	Numerical Simulation and Parametric Analysis of Precast Concrete Beam-Slab Assembly Based on Layered Shell Elements. <i>Buildings</i> , <b>2021</b> , 11, 7	3.2	2
13	Seismic and economic performance of a mid-rise cassette structure. <i>Advances in Structural Engineering</i> , <b>2020</b> , 23, 3541-3554	1.9	2
12	Framework for calculating seismic fragility function of urban road networks: A case study on Tangshan City, China. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 1-15	2.9	2
11	Experimental study of a novel open-web sandwich slab and modified design procedure. <i>Magazine of Concrete Research</i> , <b>2021</b> , 1-20	2	2
10	Implicit gradient-enhanced force-based Timoshenko fiber element formulation for reinforced concrete structures. <i>International Journal for Numerical Methods in Engineering</i> , <b>2021</b> , 122, 325-347	2.4	2
9	A recursive dimension-reduction method for high-dimensional reliability analysis with rare failure event. <i>Reliability Engineering and System Safety</i> , <b>2021</b> , 213, 107710	6.3	2
8	Probabilistic seismic demand and fragility analysis of a novel mid-rise large-span cassette structure. <i>Bulletin of Earthquake Engineering</i> ,1	3.7	2
7	Seismic Performance and Design Process Majorization of a Reinforced Concrete Grid Frame Wall. <i>Journal of Earthquake Engineering</i> ,1-30	1.8	1
6	Probabilistic Seismic Performance Assessment of RC Frames Retrofitted with External SC-PBSPC BRBF Sub-structures. <i>Journal of Earthquake Engineering</i> ,1-24	1.8	1
5	Analytical examination of mesh-dependency issue for uniaxial RC elements and new fracture energy-based regularization technique. <i>International Journal of Damage Mechanics</i> ,105678952110392	3	1
4	High-fidelity numerical analysis of the damage and failure mechanisms of a prestressed concrete containment vessel under internal pressure. <i>Nuclear Engineering and Design</i> , <b>2021</b> , 383, 111439	1.8	1
3	Investigation of 3D effects on dynamic progressive collapse resistance of RC structures considering slabs and infill walls. <i>Journal of Building Engineering</i> , <b>2022</b> , 104421	5.2	1
2	Efficient stochastic finite element analysis of irregular wall structures with inelastic random field properties over manifold. <i>Computational Mechanics</i> ,1	4	0
1	Fragility analysis of a prestressed concrete containment vessel subjected to internal pressure via the probability density evolution method. <i>Nuclear Engineering and Design</i> , <b>2022</b> , 390, 111709	1.8	0