

# Wei Zhang

## List of Publications by Year in descending order

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55  
papers

1,838  
citations

195140

26  
h-index

241622

42  
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55  
docs citations

55  
times ranked

1006  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Study of Seismic Response in CFRP-Strengthened and Damaged Rectangular Hollow Bridge Piers. <i>Journal of Bridge Engineering</i> , 2025, 30, .	3.1	0
2	Experimental study on seismic performance of frame with steel-hollow core partially encased composite spliced beam. <i>Journal of Constructional Steel Research</i> , 2024, 212, 108239.	4.1	4
3	Mixed-Mode Debonding in CFRP-to-Steel Fiber-Reinforced Concrete Joints. <i>Journal of Composites for Construction</i> , 2024, 28, .	3.5	23
4	Flexural behavior of SFRC-NC composite beams: An experimental and numerical analytical study. <i>Structures</i> , 2024, 60, 105823.	3.8	28
5	Resilience-based seismic design and cyclic behavior of assembled joints between self-compacting concrete-filled rectangular steel tube frame columns and H-shaped steel beams. <i>Journal of Building Engineering</i> , 2024, 91, 109556.	3.4	0
6	Enhancing thermal performance of energy storage concrete through MPCM integration: An experimental study. <i>Journal of Building Engineering</i> , 2024, 91, 109533.	3.4	1
7	Temperature-dependent debonding behavior of adhesively bonded CFRP-UHPC interface. <i>Composite Structures</i> , 2024, 340, 118200.	6.4	27
8	Experimental and simulative analysis of flexural performance in UHPC-RC hybrid beams. <i>Construction and Building Materials</i> , 2024, 436, 136889.	7.6	21
9	Shear performance of basalt fiber composite <scp>RC</scp> beams with different laminated heights of basalt fiber. <i>Structural Concrete</i> , 2024, 25, 4938-4955.	2.9	0
10	Behavior of Reinforced Concrete Beams without Stirrups and Strengthened with Basalt Fiber-Reinforced Polymer Sheets. <i>Journal of Composites for Construction</i> , 2023, 27, .	3.5	31
11	Experimental and numerical investigation of an arch-beam joint for an arch bridge. <i>Archives of Civil and Mechanical Engineering</i> , 2023, 23, .	3.9	44
12	Experimental study of a composite beam externally bonded with a carbon fiber-reinforced plastic plate. <i>Journal of Building Engineering</i> , 2023, 71, 106522.	3.4	112
13	A push-out test on partially encased composite column with different positions of shear studs. <i>Engineering Structures</i> , 2023, 289, 116343.	5.7	33
14	Experimental and Numerical Analysis of the Ribbed Reinforced Concrete Fracture Behavior Based on the Mesoscale FE Model. <i>International Journal of Concrete Structures and Materials</i> , 2023, 17, .	3.1	2
15	Experimental and Numerical Study of Concrete Fracture Behavior with Multiple Cracks Based on the Meso-Model. <i>Materials</i> , 2023, 16, 6311.	2.9	3
16	Progressive collapse of multistory 3D reinforced concrete frame structures after the loss of an edge column. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 249-265.	3.5	36
17	Torsion design of CFRP-CFST columns using a data-driven optimization approach. <i>Engineering Structures</i> , 2022, 251, 113479.	5.7	77
18	Seismic Behavior of Strengthened RC Columns under Combined Loadings. <i>Journal of Bridge Engineering</i> , 2022, 27, .	3.1	66

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19	Experimental and Numerical Analysis of the Behavior of Beam-Column Connections with Reinforced Side Plates. <i>Metals</i> , 2022, 12, 810.	2.3	1
20	Assessment of RC Frame Capacity Subjected to a Loss of Corner Column. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.3	53
21	Assessment of Diagonal Macrocrack-Induced Debonding Mechanisms in FRP-Strengthened RC Beams. <i>Journal of Composites for Construction</i> , 2022, 26, .	3.5	71
22	Seismic behavior of a friction-type artificial plastic hinge for the precast beam-column connection. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	3.9	70
23	Post-earthquake strength assessment of a steel bridge considering material strength degradation. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 331-346.	3.5	2
24	Experimental study of predamaged columns strengthened by HPFL and BSP under combined load cases. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 1210-1227.	3.5	95
25	Experimental study on circular steel tube-confined reinforced UHPC columns under axial loading. <i>Engineering Structures</i> , 2021, 230, 111599.	5.7	88
26	Assessment of FRP-Concrete Interfacial Debonding with Coupled Mixed-Mode Cohesive Zone Model. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.5	44
27	Mixed-Mode Debonding Behavior between CFRP Plates and Concrete under Fatigue Loading. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.3	36
28	Numerical investigation on the bearing capacity of RC columns strengthened by HPFL-BSP under combined loadings. <i>Journal of Building Engineering</i> , 2021, 39, 102266.	3.4	72
29	Property Assessment of High-Performance Concrete Containing Three Types of Fibers. <i>International Journal of Concrete Structures and Materials</i> , 2021, 15, .	3.1	127
30	Seismic behavior of a replaceable artificial controllable plastic hinge for precast concrete beam-column joint. <i>Engineering Structures</i> , 2021, 245, 112848.	5.7	107
31	Numerical Modeling of Response of CFRP-Concrete Interfaces Subjected to Fatigue Loading. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.5	40
32	Progressive collapse resistance of multistory RC frame strengthened with HPFL-BSP. <i>Journal of Building Engineering</i> , 2021, 43, 103123.	3.4	29
33	Seismic performance of predamaged RC columns strengthened with HPFL and BSP under combined loadings. <i>Engineering Structures</i> , 2020, 203, 109871.	5.7	12
34	Experimental study on the mechanical properties and the microstructure of hybrid-fiber-reinforced concrete under an early stage. <i>Structural Concrete</i> , 2020, 21, 1106-1122.	2.9	16
35	Analysis of Wind-Induced Vibration of a Spoke-Wise Cable-Membrane Structure. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 603.	2.6	4
36	Experimental and Numerical Study of Mechanical Behavior of Welded Steel Plate Joints. <i>Metals</i> , 2020, 10, 1293.	2.3	2

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37	Bond properties between GFRP bars and hybrid fiber-reinforced concrete containing three types of artificial fibers. <i>Construction and Building Materials</i> , 2020, 250, 118857.	7.6	37
38	Experimental Investigation on Rehabilitation of Corroded RC Columns with BSP and HPFL under Combined Loadings. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.3	121
39	Prediction of the elastoplastic in-plane buckling of parabolic steel arch bridges. <i>Journal of Constructional Steel Research</i> , 2020, 168, 105988.	4.1	8
40	Seismic behavior of precast concrete beam-column joints with steel strand inserts under cyclic loading. <i>Engineering Structures</i> , 2020, 216, 110766.	5.7	41
41	Numerical analysis of self-centering energy dissipation brace with arc steel plate for seismic resistance. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 125, 105751.	4.3	10
42	Microstructure investigation of the interface between lightweight concrete and normal-weight concrete. <i>Materials Today Communications</i> , 2019, 21, 100640.	2.3	21
43	Experimental study on seismic performance of square RC columns subjected to combined loadings. <i>Engineering Structures</i> , 2019, 184, 194-204.	5.7	31
44	Seismic behavior of strengthened square reinforced concrete columns under combined loadings. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 1468-1484.	3.5	10
45	Bond behavior between lightweight aggregate concrete and normal weight concrete based on splitting-tensile test. <i>Construction and Building Materials</i> , 2019, 209, 306-314.	7.6	32
46	Numerical analysis on steel-concrete-steel sandwich plates by damage plasticity model: From materials to structures. <i>Construction and Building Materials</i> , 2017, 149, 801-815.	7.6	50
47	Prediction of the Bond-Slip Law Between Externally Bonded Concrete Substrates and CFRP Plates Under Fatigue Loading. <i>International Journal of Civil Engineering</i> , 2017, 16, 1085-1096.	1.6	12
48	Bond Properties of Additional Anchorage Schemes for a CFRP Plate-Concrete Externally Bonded System. <i>ACI Structural Journal</i> , 2017, 114, .	0.3	0
49	Experimental study on fatigue behaviour of CFRP plates externally bonded to concrete substrate. <i>Structural Concrete</i> , 2016, 17, 235-244.	2.9	7
50	Flexural strengthening of RC beams with externally bonded CFRP plate: experimental study on shear-peeling debonding. <i>Magazine of Concrete Research</i> , 2016, 68, 724-738.	2.1	6
51	Fatigue properties of shear-peeling debonding between CFRP plates and concrete. <i>Magazine of Concrete Research</i> , 2016, 68, 1210-1224.	2.1	6
52	Experimental study on shear-peeling bond strength between a CFRP plate and concrete. <i>Magazine of Concrete Research</i> , 2016, 68, 568-580.	2.1	14
53	Numerical studies on shear resistance of headed stud connectors in different concretes under Arctic low temperature. <i>Materials and Design</i> , 2016, 112, 184-196.	7.0	23
54	Reinforced ultra-lightweight cement composite flat slabs: Experiments and analysis. <i>Materials and Design</i> , 2016, 95, 148-158.	7.0	20

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55	Local Bond Stress-Slip Relationship between Carbon Fiber-Reinforced Polymer Plates and Concrete under Fatigue Loading. ACI Structural Journal, 2014, 111, .	0.3	12