Yang Wei

List of Publications by Year
in descending order

73 papers	2,220 citations	218662 26 h-index	243610 44 g-index
73 all docs	73 docs citations	73 times ranked	596 citing authors

#	Article	IF	Citations
1	A novel seawater and sea sand concrete filled FRP-carbon steel composite tube column: Concept and behaviour. Composite Structures, 2020, 246, 112421.	5.8	126
2	General Stress-Strain Model for Steel- and FRP-Confined Concrete. Journal of Composites for Construction, 2015, 19, .	3.2	114
3	Flexural performance of bamboo scrimber beams strengthened with fiber-reinforced polymer. Construction and Building Materials, 2017, 142, 66-82.	7.2	107
4	Stress-strain model of an FRP-confined concrete filled steel tube under axial compression. Thin-Walled Structures, 2019, 142, 149-159.	5.3	91
5	Compressive performance of high-strength seawater and sea sand concrete-filled circular FRP-steel composite tube columns. Engineering Structures, 2021, 240, 112357.	5.3	91
6	Stress-strain behavior and model of bamboo scrimber under cyclic axial compression. Engineering Structures, 2020, 209, 110279.	5.3	90
7	Experimental investigation of rectangular concrete-filled fiber reinforced polymer (FRP)-steel composite tube columns for various corner radii. Composite Structures, 2020, 244, 112311.	5.8	82
8	Performance of circular concrete-filled fiber-reinforced polymer-steel composite tube columns under axial compression. Journal of Reinforced Plastics and Composites, 2014, 33, 1911-1928.	3.1	80
9	Confinement effectiveness of circular concrete-filled steel tubular columns under axial compression. Journal of Constructional Steel Research, 2019, 158, 15-27.	3.9	74
10	Compression behavior of concrete columns confined by high strength steel wire. Construction and Building Materials, 2014, 54, 443-453.	7.2	71
11	Behaviour of concrete confined by both steel spirals and fiber-reinforced polymer under axial load. Composite Structures, 2018, 192, 577-591.	5.8	68
12	Experimental study on the flexural behavior of concrete beams reinforced with bundled hybrid steel/FRP bars. Engineering Structures, 2019, 197, 109443.	5.3	66
13	Experimental Study on the Creep Behavior of Recombinant Bamboo. Journal of Renewable Materials, 2020, 8, 251-273.	2.2	58
14	Flexural behavior of seawater sea-sand coral concreteâ€“UHPC composite beams reinforced with BFRP bars. Construction and Building Materials, 2020, 265, 120279.	7.2	51
15	Experimental and theoretical investigation of steel-reinforced bamboo scrimber beams. Engineering Structures, 2020, 223, 111179.	5.3	51
16	Mechanical properties of discrete BFRP needles reinforced seawater sea-sand concrete-filled GFRP tubular stub columns. Construction and Building Materials, 2020, 244, 118330.	7.2	51
17	Axial behavior of reinforced concrete column with ultra-high performance concrete stay-in-place formwork. Engineering Structures, 2020, 210, 110403.	5.3	47
18	Experimental investigation on axial compressive behavior of ultra-high performance concrete (UHPC) filled glass FRP tubes. Construction and Building Materials, 2019, 225, 678-691.	7.2	38

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19	Flexural behavior of bambooâ€“concrete composite beams with perforated steel plate connections. Journal of Wood Science, 2020, 66, .	1.9	38
20	A novel seawater and sea sand concrete-filled FRP-carbon steel composite tube column: Cyclic axial compression behaviour and modelling. Engineering Structures, 2022, 252, 113531.	5.3	37
21	Characterizing engineering performance of bamboo-wood composite cross-laminated timber made from bamboo mat-curtain panel and hem-fir lumber. Composite Structures, 2021, 266, 113785.	5.8	34
22	Stressâ€“strain relationship model of glulam bamboo under axial loading. Advanced Composites Letters, 2020, 29, 2633366X2095872.	1.3	33
23	Axial compressive behavior of seawater sea-sand coral aggregate concrete-filled circular FRP-steel composite tube columns. Construction and Building Materials, 2022, 315, 125737.	7.2	30
24	Compressive behavior of rectangular concrete-filled fiber-reinforced polymer and steel composite tube columns with stress-release grooves. Composite Structures, 2022, 281, 114984.	5.8	29
25	Experimental investigation of timber beams strengthened by bamboo scrimber with anchorage structure. Structures, 2021, 33, 1-11.	3.6	28
26	Analytical model of concrete-filled FRP-steel composite tube columns under cyclic axial compression. Soil Dynamics and Earthquake Engineering, 2020, 139, 106414.	3.8	27
27	Behavior of FRP-confined ultra-high performance concrete under eccentric compression. Composite Structures, 2021, 256, 113040.	5.8	26
28	Compressive performance of concrete-filled steel tube columns with in-built seawater and sea sand concrete-filled FRP tubes. Construction and Building Materials, 2022, 317, 125933.	7.2	26
29	Seismic performance and resilience assessment of friction damped self-centering prestressed concrete frames. Engineering Structures, 2022, 263, 114346.	5.3	26
30	Flexural behaviour of glulam bamboo beams reinforced with near-surface mounted steel bars. Materials Research Innovations, 2015, 19, S1-98-S1-103.	2.3	24
31	Experimental investigations of concrete-filled steel tubular columns confined with high-strength steel wire. Advances in Structural Engineering, 2019, 22, 2771-2784.	2.4	24
32	Structural behavior of prefabricated bamboo-lightweight concrete composite beams with perforated steel plate connectors. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	24
33	A review of the research and application progress of new types of concrete-filled FRP tubular members. Construction and Building Materials, 2021, 312, 125353.	7.2	24
34	Experimental investigation of the long-term behavior of reconstituted bamboo beams with various loading levels. Journal of Building Engineering, 2021, 36, 102107.	3.4	23
35	Mechanical Response of Timber Beams Strengthened with Variable Amounts of CFRP and Bamboo Scrimber Layers. Journal of Composites for Construction, 2022, 26, .	3.2	23
36	Behavior and strength of rectangular bamboo scrimber columns with shape and slenderness effects. Materials Today Communications, 2020, 25, 101392.	1.9	20

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37	Influence of slenderness ratio and sectional geometry on the axial compression behavior of original bamboo columns. Journal of Wood Science, 2021, 67, .	1.9	19
38	Experimental investigation of bamboo-concrete composite beams with threaded reinforcement connections. Journal of Sandwich Structures and Materials, 2022, 24, 601-626.	3.5	19
39	Experimental and analytical investigations on flexural behavior of bamboo beams strengthened with steel bars. Advances in Structural Engineering, 2021, 24, 3338-3356.	2.4	19
40	Experimental investigation on the flexural behavior of laminated bamboo-timber I-beams. Journal of Building Engineering, 2022, 46, 103651.	3.4	18
41	Compressive performance of bamboo sheet twining tube-confined recycled aggregate concrete columns. Construction and Building Materials, 2022, 323, 126544.	7.2	18
42	Mechanical behavior of bamboo composite tubes under axial compression. Construction and Building Materials, 2022, 339, 127681.	7.2	16
43	Bond-slip behavior of bundled steel/FRP bars and its implementation in high-fidelity FE modeling of reinforced concrete beams. Construction and Building Materials, 2021, 286, 122887.	7.2	15
44	An investigation of the flexural performance of bamboo-concrete composite beams with precast light concrete slabs and dowel connectors. Journal of Building Engineering, 2021, 41, 102759.	3.4	14
45	Flexural Performance of Glued Laminated Bamboo Beams. Advanced Materials Research, 0, 168-170, 1700-1703.	0.3	13
46	Bending and shear performance of cross-laminated timber and glued-laminated timber beams: A comparative investigation. Journal of Building Engineering, 2022, 45, 103477.	3.4	13
47	Experimental investigation of full-culm bamboo tubes strengthened by filled concrete and bamboo sheets under axial compression. Journal of Building Engineering, 2022, 45, 103548.	3.4	13
48	Off-axis compressive behavior of cross-laminated bamboo and timber wall elements. Structures, 2022, 35, 452-468.	3.6	13
49	Axial compressive behavior of ultra-high performance concrete confined by high-strength transverse reinforcements. Construction and Building Materials, 2022, 324, 126518.	7.2	13
50	Experimental and numerical investigation on the seismic performance of concrete-filled UHPC tubular columns. Journal of Building Engineering, 2021, 43, 103118.	3.4	12
51	A general model for predicting the off-axis performance of fiber reinforced composite materials. Structures, 2021, 34, 2087-2097.	3.6	12
52	Modeling for complete stress-strain curve of circular concrete columns confined with steel spiral and FRP. Journal of Building Engineering, 2021, 44, 103294.	3.4	11
53	Flexural strengthening of RC beams using distributed prestressed high strength steel wire rope: theoretical analysis. Structure and Infrastructure Engineering, 2014, 10, 160-174.	3.7	10
54	Comparative Study on Mechanical Behavior of Bamboo-Concrete Connections and Wood-Concrete Connections. Frontiers in Materials, 2020, 7, .	2.4	10

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55	Compressive behaviour of FRP-steel wire mesh composite tubes filled with seawater and sea sand concrete. Construction and Building Materials, 2022, 314, 125608.	7.2	10
56	Shortâ€term creep properties and creep model of woodâ€plastic composites. Polymer Composites, 2022, 43, 924-933.	4.6	10
57	Experimental Study on Cyclic Behavior of SFCBs with Different Slenderness Ratios. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	9
58	Compressive Behavior of Bamboo Sheet Twining Tube-Confined Concrete Columns. Polymers, 2021, 13, 4124.	4.5	9
59	Influence of the Cross-Sectional Shape and Corner Radius on the Compressive Behaviour of Concrete Columns Confined by FRP and Stirrups. Polymers, 2022, 14, 341.	4.5	9
60	Experimental Study on Timberâ^'Lightweight Concrete Composite Beams with Ductile Bolt Connectors. Materials, 2021, 14, 2632.	2.9	8
61	Mechanical Behavior of Foam-Filled Bamboo Composite Tubes under Axial Compression. Polymers, 2022, 14, 2006.	4.5	8
62	Bond and flexural performance of basalt fiberâ€"reinforced polymer barâ€"reinforced seawater sea sand glass aggregate concrete beams. Advances in Structural Engineering, 2021, 24, 3359-3374.	2.4	7
63	Accumulative traction-hoisting construction technology of a semi-rigid steel batten cable dome. Structures, 2021, 31, 159-171.	3.6	6
64	Bond performance between SFCBs and grouted sleeves for precast concrete structures. Advances in Structural Engineering, 2021, 24, 2857-2869.	2.4	5
65	Performance of Circular Concrete-Filled FRP-Grooved Steel Composite Tube Columns under Axial Compression. Polymers, 2021, 13, 3638.	4.5	5
66	Preliminary Design and Experimental Study of a Steel-Batten Ribbed Cable Dome. Symmetry, 2021, 13, 2136.	2.2	5
67	Probabilistic Assessment Approach of the Aerostatic Instability of Long-Span Symmetry Cable-Stayed Bridges. Symmetry, 2021, 13, 2413.	2.2	5
68	Flexural Behavior of Concrete-Filled FRP-Steel Composite Circular Tubes. Advanced Materials Research, 0, 243-249, 1316-1320.	0.3	3
69	Experimental Investigation of BFRP Tendons under Monotonic and Hysteretic Loadings. Polymers, 2021, 13, 3722.	4.5	3
70	A New Approach to Symmetry Reliability: Combination of Forward and Inverse Reliability Principle and Its Application to Frame Structures and Bamboo Bridges. Symmetry, 2022, 14, 318.	2.2	3
71	An experimental and modeling study on apparent bending moduli of cross-laminated bamboo and timber (CLBT) in orthogonal strength directions. Case Studies in Construction Materials, 2022, 16, e00874.	1.7	2
72	Development of a Pre-Evaluation and Health Monitoring System for FAST Cable-Net Structure. Applied Sciences (Switzerland), 2022, 12, 332.	2.5	2

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73	Preliminary Research on Mechanical Properties of FRP-Reinforced Bamboo Beams. Advanced Materials Research, 2011, 243-249, 1237-1241.	0.3	1