

Yan Xiao

List of Publications by Year in descending order

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140
papers

5,581
citations

81900

39
h-index

88630

70
g-index

144
all docs

144
docs citations

144
times ranked

2435
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast modeling of lightweight glubam frame structures based on connection test information. <i>Structural Design of Tall and Special Buildings</i> , 2022, 31, e1903.	1.9	3
2	Experimental studies on glubam columns under axial compression. <i>Journal of Building Engineering</i> , 2022, 49, 103453.	3.4	5
3	High-strain rate compressive behavior of Fiber-Reinforced Rubberized Concrete. <i>Construction and Building Materials</i> , 2022, 319, 125739.	7.2	19
4	The 2019 International Bamboo Construction Competition. <i>Springer Tracts in Civil Engineering</i> , 2022, , 1-13.	0.5	0
5	A Comparison of CFRP Retrofitted Columns Under Lateral Impact Loads with Different Boundary Conditions. <i>Lecture Notes in Civil Engineering</i> , 2022, , 1127-1133.	0.4	0
6	Development of a Steel Fiber-Reinforced Rubber Concrete for Jacketing of Bridge Piers Against Vehicular Impacts: Preliminary Results. <i>Lecture Notes in Civil Engineering</i> , 2022, , 1144-1151.	0.4	0
7	Experimental research on novel RPC-steel composite connections for prefabricated glubam-concrete composite beams. <i>Construction and Building Materials</i> , 2022, 333, 127397.	7.2	6
8	High-strain rate tension behavior of Fiber-Reinforced Rubberized Concrete. <i>Cement and Concrete Composites</i> , 2022, 131, 104554.	10.7	15
9	Assessing adhesion and glue-line defects in cold-pressing lamination of glubam. <i>Construction and Building Materials</i> , 2021, 274, 122106.	7.2	12
10	Experimental investigation on flexural behavior of full-scale glued laminated bamboo (glubam)-concrete composite beams: A case study of using recycled concrete aggregates. <i>Engineering Structures</i> , 2021, 233, 111896.	5.3	13
11	Experimental research on seismic behavior of concrete-filled reactive powder concrete tubular columns. <i>Engineering Structures</i> , 2021, 233, 111921.	5.3	15
12	A Pilot Study on Cross-Laminated Bamboo and Timber Beams. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	27
13	Mechanical Properties of Engineered Bamboo Boards for Glubam Structures. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	2.9	39
14	Experimental studies on bolted glubam connections. <i>Advances in Structural Engineering</i> , 2021, 24, 3010-3020.	2.4	5
15	Flammability Assessment of GluBam with Cone-Calorimeter Tests. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, 04021060.	2.9	1
16	Uniaxial Compressive Behavior of Granite at High Strain Rates. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 4695-4721.	5.4	9
17	Pull-Out Behavior of CFRP Bars in Glued-In Glubam Joints. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.2	3
18	Effectiveness of CFRP seismic-retrofit of circular RC bridge piers under vehicular lateral impact loading. <i>Engineering Structures</i> , 2021, 243, 112602.	5.3	33

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19	High-strain rate compressive behavior of concrete made with substituted coarse aggregates: Recycled crushed concrete and clay bricks. <i>Construction and Building Materials</i> , 2021, 301, 123875.	7.2	41
20	Seismic performance of seawater and sea sand concrete-filled ultra-high performance concrete tubes under low-cycle reversed lateral loading. <i>Advances in Structural Engineering</i> , 2021, 24, 1221-1234.	2.4	2
21	Development of structural testing equipment for impact and complex loading. <i>Journal of Structural Integrity and Maintenance</i> , 2021, 6, 1-15.	1.5	3
22	Connections used for cold-formed steel frame shear walls sheathed with engineered bamboo panels. <i>Journal of Constructional Steel Research</i> , 2020, 164, 105787.	3.9	11
23	Uniaxial concrete tension damage evolution using acoustic emission monitoring. <i>Construction and Building Materials</i> , 2020, 232, 117281.	7.2	52
24	Experimental and Analytical Investigations on Short-Term Behavior of Glubam-Concrete Composite Beams. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	25
25	Experimental research on compressive behavior of seawater and sea sand concrete-filled RPC tubes. <i>Engineering Structures</i> , 2020, 222, 111117.	5.3	13
26	Compressive impact tests of lightweight concrete with 155-mm-diameter split hopkinson pressure bar. <i>Cement and Concrete Composites</i> , 2020, 114, 103816.	10.7	30
27	Design Embedment Strength of Plybamboo Panels Used for GluBam. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	15
28	High-strain rate compressive behavior of Douglas fir and glubam. <i>Construction and Building Materials</i> , 2020, 258, 119466.	7.2	19
29	Experimental investigation on performance of cantilever CFRP-wrapped circular RC columns under lateral low-velocity impact. <i>Composite Structures</i> , 2020, 242, 112143.	5.8	36
30	Numerical studies on full-scale steel columns under complex seismic loading. <i>Journal of Constructional Steel Research</i> , 2020, 172, 106227.	3.9	4
31	A review of experimental results on structural performance of reinforced recycled aggregate concrete beams and columns. <i>Advances in Structural Engineering</i> , 2020, 23, 3351-3369.	2.4	34
32	Axially loaded single threaded rod glued in glubam joint. <i>Construction and Building Materials</i> , 2020, 244, 118302.	7.2	19
33	Experimental Study on Axial Pull-Out Behavior of Steel Rebars Glued-In Glubam. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	13
34	Engineered bamboo in China. , 2020, , 625-643.		1
35	Axial Impact Behavior of FRP-Confined Concrete Stub Columns with Square and Circular Cross Section. <i>Journal of Composites for Construction</i> , 2020, 24, .	3.2	10
36	Post-Earthquake Fire Resistance of Circular Concrete-Filled Steel Tubular Columns. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	15

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37	Bending performance of glulam beams made with different processes. <i>Advances in Structural Engineering</i> , 2019, 22, 535-546.	2.4	29
38	Effectiveness of CFRP Confinement and Compressive Strength of Square Concrete Columns. <i>Journal of Composites for Construction</i> , 2019, 23, .	3.2	46
39	A direct displacement-based design procedure for base-isolated building structures with lead rubber bearings (LRBs). <i>Engineering Structures</i> , 2019, 197, 109402.	5.3	27
40	Structural behavior of glulam I-joists. <i>Construction and Building Materials</i> , 2019, 224, 292-305.	7.2	23
41	Experimental study of an unsymmetrical prefabricated hybrid steel-bamboo roof truss. <i>Engineering Structures</i> , 2019, 201, 109781.	5.3	23
42	High-strain rate compressive behavior of CFRP confined concrete: Large diameter SHPB tests. <i>Construction and Building Materials</i> , 2019, 201, 484-501.	7.2	64
43	Experimental study on dynamic behavior of CFRP-to-steel interface. <i>Structures</i> , 2019, 20, 465-475.	3.6	4
44	On the form of the Musmeci's bridge over the Basento river. <i>Engineering Structures</i> , 2019, 191, 658-673.	5.3	37
45	Experimental dynamic characterization of a new composite glulam-steel truss structure. <i>Journal of Building Engineering</i> , 2019, 25, 100773.	3.4	11
46	Axial impact behaviors of stub concrete-filled square steel tubes. <i>Advances in Structural Engineering</i> , 2019, 22, 2490-2503.	2.4	16
47	Performance of connection system used in lightweight glulam shear wall. <i>Construction and Building Materials</i> , 2019, 206, 419-431.	7.2	32
48	Fire behavior and performance of concrete-filled steel tubular columns: Review and discussion. <i>Journal of Constructional Steel Research</i> , 2019, 157, 19-31.	3.9	40
49	Full-scale steel column tests under simulated horizontal and vertical earthquake loadings. <i>Journal of Constructional Steel Research</i> , 2019, 163, 105767.	3.9	7
50	Experimental Methods for Seismic Simulation of Structural Columns: State-of-the-Art Review and Introduction of New Multiuse Structural Testing System. <i>Journal of Structural Engineering</i> , 2019, 145, .	3.4	8
51	Thermal insulation performance of bamboo- and wood-based shear walls in light-frame buildings. <i>Energy and Buildings</i> , 2018, 168, 167-179.	6.7	60
52	Experimental research on concrete-filled RPC tubes under axial compression load. <i>Engineering Structures</i> , 2018, 155, 358-370.	5.3	40
53	Steel and glulam hybrid space truss. <i>Engineering Structures</i> , 2018, 171, 140-153.	5.3	31
54	Dynamic Behavior of CFRP-Strengthened Reinforced Concrete Beams without Stirrups under Impact Loading. <i>ACI Structural Journal</i> , 2018, 115, .	0.2	27

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55	Lateral Loading Performance of Lightweight Glulam Shear Walls. Journal of Structural Engineering, 2017, 143, .	3.4	27
56	Seismic behavior of cold-formed steel frame shear walls sheathed with ply-bamboo panels. Journal of Constructional Steel Research, 2017, 132, 217-229.	3.9	28
57	Mechanical behavior of connections for glulam-concrete composite beams. Construction and Building Materials, 2017, 143, 158-168.	7.2	44
58	Recycled Aggregate Concrete in FRP-confined columns: A review of experimental results. Composite Structures, 2017, 174, 277-291.	5.8	95
59	Impact Behavior of CFRP-Strip-Wrapped RC Beams without Stirrups. Journal of Composites for Construction, 2017, 21, .	3.2	39
60	Seismic performance of reinforced concrete squat walls with embedded cold-formed and thin walled steel truss. Engineering Structures, 2017, 132, 714-732.	5.3	9
61	An experimental study on shear strength of glulam. Construction and Building Materials, 2017, 150, 490-500.	7.2	49
62	Experimental and numerical study on the behavior of circular RC columns under impact loading. Procedia Engineering, 2017, 199, 2457-2462.	1.2	10
63	Response of shear-deficient reinforced circular RC columns under lateral impact loading. International Journal of Impact Engineering, 2017, 109, 196-213.	5.0	108
64	Macro-Modeling of Reinforced Concrete Structural Walls: State-of-the-Art. Journal of Earthquake Engineering, 2017, 21, 652-678.	2.5	16
65	CFRP Strip Cable Retrofit of RC Frame for Collapse Resistance. Journal of Composites for Construction, 2017, 21, .	3.2	33
66	Compressive Behavior of Engineered Cementitious Composites under High Strain-Rate Loading. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	37
67	Experimental study on dynamic behavior of GFRP-to-concrete interface. Engineering Structures, 2016, 118, 371-382.	5.3	16
68	Engineered Bamboo. , 2016, , 433-452.		11
69	Influence of longitudinal bar corrosion on impact behavior of RC beams. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3579-3589.	3.1	7
70	Seismic behavior of high strength concrete composite walls with embedded steel truss. Journal of Constructional Steel Research, 2016, 118, 180-193.	3.9	15
71	Reduced Models for Simulating Collisions between Trucks and Bridge Piers. Journal of Bridge Engineering, 2016, 21, .	2.9	47
72	Experimental Study on Dynamic Behavior of CFRP-to-Concrete Interface. Journal of Composites for Construction, 2016, 20, .	3.2	26

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73	Impact Tests of Model RC Columns by an Equivalent Truck Frame. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	49
74	Creep Behavior of Glulam and CFRP-Enhanced Glulam Beams. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	15
75	Investigation on Behavior of Glazing System with Elastomeric Interlayers under Blast Effects. <i>Advances in Structural Engineering</i> , 2015, 18, 1915-1930.	2.4	1
76	Low cyclic fatigue performance of concrete-filled steel tube columns. <i>Journal of Central South University</i> , 2015, 22, 4035-4042.	3.0	5
77	Studies of Nail Connectors Used in Wood Frame Shear Walls with Ply-Bamboo Sheathing Panels. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	30
78	Lateral Loading Behaviors of Lightweight Wood-Frame Shear Walls with Ply-Bamboo Sheathing Panels. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	29
79	A new hybrid heating method used in fire test. <i>Experimental Thermal and Fluid Science</i> , 2015, 62, 52-57.	2.7	7
80	Test and numerical simulation of truck collision with anti-ram bollards. <i>International Journal of Impact Engineering</i> , 2015, 75, 30-39.	5.0	43
81	Collapse Test of Three-Story Half-Scale Reinforced Concrete Frame Building. <i>ACI Structural Journal</i> , 2015, 112, .	0.2	89
82	Time-Dependent Behavior of FRP Retrofitted RC Columns after Subjecting to Simulated Earthquake Loading. <i>Journal of Composites for Construction</i> , 2014, 18, 04013028.	3.2	2
83	Long-Term Loading Behavior of a Full-Scale Glulam Bridge Model. <i>Journal of Bridge Engineering</i> , 2014, 19, .	2.9	20
84	Failure analysis of typical glulam with bidirectional fibers by off-axis tension tests. <i>Construction and Building Materials</i> , 2014, 58, 9-15.	7.2	37
85	Experimental studies on roof trusses made of glulam. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1879-1890.	3.1	43
86	Performance of laterally loaded H-piles in sand. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 67, 316-325.	3.8	8
87	Glue Laminated Bamboo (GluBam) for Structural Applications. , 2014, , 589-601.		15
88	Pseudo-dynamic testing of hybrid frame with steel beams bolted to CFT columns. <i>Journal of Constructional Steel Research</i> , 2013, 88, 123-133.	3.9	19
89	Effects of sustained axial load and cooling phase on post-fire behaviour of reinforced concrete stub columns. <i>Fire Safety Journal</i> , 2013, 59, 76-87.	3.1	13
90	Production, environmental impact and mechanical properties of glulam. <i>Construction and Building Materials</i> , 2013, 44, 765-773.	7.2	193

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91	Experimental Study on Creep and Mechanical Behavior of Modern Bamboo Bridge Structure. <i>Key Engineering Materials</i> , 2012, 517, 141-149.	0.4	2
92	Flexural Behavior of Concrete-Filled Circular Steel Tubes under High-Strain Rate Impact Loading. <i>Journal of Structural Engineering</i> , 2012, 138, 449-456.	3.4	64
93	Discussion of "Development of Laminated Bamboo Lumber: Review of Processing, Performance, and Economical Considerations" by M. Mahdavi, P. L. Clouston, and S. R. Arwade. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 1429-1430.	2.9	8
94	Fire simulation test and analysis of laminated bamboo frame building. <i>Construction and Building Materials</i> , 2012, 34, 257-266.	7.2	63
95	Networked pseudodynamic testing of bridge pier and precast pile foundation. <i>Engineering Structures</i> , 2012, 38, 32-41.	5.3	11
96	Seismic Behavior of CFT Column and Steel Pile Footings. <i>Journal of Bridge Engineering</i> , 2011, 16, 575-586.	2.9	25
97	Flexural strength analysis of non-post-tensioned and post-tensioned concrete-filled circular steel tubes. <i>Journal of Constructional Steel Research</i> , 2011, 67, 192-202.	3.9	28
98	Cyclic behaviours of concrete-filled steel tubular columns with pre-load after exposure to fire. <i>Journal of Constructional Steel Research</i> , 2011, 67, 727-739.	3.9	30
99	Experimental Study on Dynamic Behavior of Concrete at Elevated Temperatures. <i>Advanced Science Letters</i> , 2011, 4, 1128-1131.	0.2	16
100	Seismic Behavior of Buckling Restrained Braced Composite Frames. <i>Advanced Science Letters</i> , 2011, 4, 2968-2972.	0.2	1
101	Design and Construction of Modern Bamboo Bridges. <i>Journal of Bridge Engineering</i> , 2010, 15, 533-541.	2.9	153
102	Analytical Studies of Concrete-Filled Circular Steel Tubes under Axial Compression. <i>Journal of Structural Engineering</i> , 2010, 136, 565-573.	3.4	45
103	Internet-based collaborative pseudo-dynamic testing of multi-span bridge structure. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 623-633.	4.4	1
104	Networked collaborative pseudo-dynamic testing of a multi-span bridge based on NetSLab. <i>Earthquake Engineering and Engineering Vibration</i> , 2009, 8, 387-397.	2.3	5
105	Coexistence of nitrifiers, denitrifiers and Anammox bacteria in a sequencing batch biofilm reactor as revealed by PCR-DGGE. <i>Journal of Applied Microbiology</i> , 2009, 106, 496-505.	3.1	57
106	Seismic behavior of wide-flange steel column with confined potential plastic hinge. <i>Journal of Constructional Steel Research</i> , 2009, 65, 808-817.	3.9	2
107	Seismic behavior of exterior connections with steel beams bolted to CFT columns. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1438-1446.	3.9	58
108	Effects of sustained axial load and cooling phase on post-fire behaviour of concrete-filled steel tubular stub columns. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1664-1676.	3.9	76

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109	Tests on impact behaviour of micro-concrete-filled steel tubes at elevated temperatures up to 400Å°C. Materials and Structures/Materiaux Et Constructions, 2009, 42, 1325-1334.	3.1	56
110	Experimental Studies on Concrete Filled Steel Tubes under High Strain Rate Loading. Journal of Materials in Civil Engineering, 2009, 21, 569-577.	2.9	50
111	Developing Modern Bamboo Structures for Sustainable Construction. , 2009, , .		3
112	Design and construction of a modern bamboo pedestrian bridge. , 2008, , 231-237.		2
113	Development of a new type Glulamâ€”GluBam. , 2008, , 41-47.		9
114	Behavior of Concrete Filled Tubes and Confined Concrete Filled Tubes under High Speed Impact. Advances in Structural Engineering, 2007, 10, 209-218.	2.4	49
115	Seismic behavior of confined square CFT columns. Engineering Structures, 2006, 28, 1378-1386.	5.3	69
116	FRP-confined concrete under axial cyclic compression. Cement and Concrete Composites, 2006, 28, 949-958.	10.7	276
117	Online hybrid test by Internet linkage of distributed test-analysis domains by Peng Pan, Motohide Tada and Masayoshi Nakashima,Earthquake Engineering and Structural Dynamics 2005;34:1407â€”1425. Earthquake Engineering and Structural Dynamics, 2006, 35, 1581-1583.	4.4	2
118	Experimental Studies on Seismic Behavior of Steel Pile-to-Pile-Cap Connections. Journal of Bridge Engineering, 2006, 11, 151-159.	2.9	24
119	Residual Performance of FRP-Retrofitted RC Columns after Being Subjected to Cyclic Loading Damage. Journal of Composites for Construction, 2006, 10, 304-312.	3.2	27
120	Bolted end plate connections for steel reinforced concrete composite structures. Structural Engineering and Mechanics, 2006, 24, 291-306.	1.0	14
121	Confined Concrete-Filled Tubular Columns. Journal of Structural Engineering, 2005, 131, 488-497.	3.4	206
122	Closure to â€œRetrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jacketsâ€”by Yan Xiao and Hui Wu. Journal of Structural Engineering, 2005, 131, 365-366.	3.4	0
123	Closure to â€œRetrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jacketsâ€”by Yan Xiao and Hui Wu. Journal of Structural Engineering, 2005, 131, 365-365.	3.4	0
124	Experimental Studies on Shear Strength of Steelâ€”Concrete Composite Beams. Journal of Structural Engineering, 2004, 130, 1206-1213.	3.4	67
125	Applications of FRP Composites in Concrete Columns. Advances in Structural Engineering, 2004, 7, 335-343.	2.4	127
126	Retrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jackets. Journal of Structural Engineering, 2003, 129, 725-732.	3.4	118

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127	Cyclic Testing of Moment Connections Upgraded with Weld Overlays. Journal of Structural Engineering, 2002, 128, 509-516.	3.4	10
128	Flexural-Shear Behavior of High-Strength Concrete Short Columns. Earthquake Spectra, 2001, 17, 679-695.	3.1	7
129	Full-scale testing of a parking structure column retrofitted with carbon fiber reinforced composites. Construction and Building Materials, 2000, 14, 63-71.	7.2	45
130	Compressive Behavior of Concrete Confined by Carbon Fiber Composite Jackets. Journal of Materials in Civil Engineering, 2000, 12, 139-146.	2.9	611
131	Prefabricated Composite Jacketing of RC Columns for Enhanced Shear Strength. Journal of Structural Engineering, 1999, 125, 255-264.	3.4	73
132	Seismic behavior of high strength concrete beams. Structural Design of Tall Buildings, 1998, 7, 73-90.	0.3	11
133	Seismic Retrofit of RC Circular Columns Using Prefabricated Composite Jacketing. Journal of Structural Engineering, 1997, 123, 1357-1364.	3.4	184
134	Seismic Shear Strength of Reinforced Concrete Columns. Journal of Structural Engineering, 1994, 120, 2310-2329.	3.4	439
135	Triaxial Compressive Behavior of Confined Concrete. Concrete Research and Technology, 1991, 2, 1-14.	0.1	12
136	Flexural Fatigue Study of Glulam Beams. Key Engineering Materials, 0, 517, 158-163.	0.4	1
137	Monotonic and Cyclic Tests of Round Bamboo Shear Walls. Key Engineering Materials, 0, 517, 135-140.	0.4	5
138	Mechanical Properties of Glulam Sheets after Artificial Accelerated Aging. Key Engineering Materials, 0, 517, 43-50.	0.4	6
139	Experimental Study of Glulam Single-Bolted Joint Loaded by Tension. Key Engineering Materials, 0, 517, 34-42.	0.4	3
140	Experimental Studies on Glue-Laminated Bamboo Trusses. Advanced Materials Research, 0, 639-640, 757-762.	0.3	2