

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	Compressive Behavior of Concrete Confined by Carbon Fiber Composite Jackets. <i>Journal of Materials in Civil Engineering</i> , 2000, 12, 139-146.	2.9	611
2	Seismic Shear Strength of Reinforced Concrete Columns. <i>Journal of Structural Engineering</i> , 1994, 120, 2310-2329.	3.4	439
3	FRP-confined concrete under axial cyclic compression. <i>Cement and Concrete Composites</i> , 2006, 28, 949-958.	10.7	276
4	Confined Concrete-Filled Tubular Columns. <i>Journal of Structural Engineering</i> , 2005, 131, 488-497.	3.4	206
5	Production, environmental impact and mechanical properties of glubam. <i>Construction and Building Materials</i> , 2013, 44, 765-773.	7.2	193
6	Seismic Retrofit of RC Circular Columns Using Prefabricated Composite Jacketing. <i>Journal of Structural Engineering</i> , 1997, 123, 1357-1364.	3.4	184
7	Design and Construction of Modern Bamboo Bridges. <i>Journal of Bridge Engineering</i> , 2010, 15, 533-541.	2.9	153
8	Applications of FRP Composites in Concrete Columns. <i>Advances in Structural Engineering</i> , 2004, 7, 335-343.	2.4	127
9	Retrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jackets. <i>Journal of Structural Engineering</i> , 2003, 129, 725-732.	3.4	118
10	Response of shear-deficient reinforced circular RC columns under lateral impact loading. <i>International Journal of Impact Engineering</i> , 2017, 109, 196-213.	5.0	108
11	Recycled Aggregate Concrete in FRP-confined columns: A review of experimental results. <i>Composite Structures</i> , 2017, 174, 277-291.	5.8	95
12	Collapse Test of Three-Story Half-Scale Reinforced Concrete Frame Building. <i>ACI Structural Journal</i> , 2015, 112, .	0.2	89
13	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
14	Prefabricated Composite Jacketing of RC Columns for Enhanced Shear Strength. <i>Journal of Structural Engineering</i> , 1999, 125, 255-264.	3.4	73
15	Seismic behavior of confined square CFT columns. <i>Engineering Structures</i> , 2006, 28, 1378-1386.	5.3	69
16	Experimental Studies on Shear Strength of Steel-Concrete Composite Beams. <i>Journal of Structural Engineering</i> , 2004, 130, 1206-1213.	3.4	67
17	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
18	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

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19	Fire simulation test and analysis of laminated bamboo frame building. <i>Construction and Building Materials</i> , 2012, 34, 257-266.	7.2	63
20	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
21	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
22	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
23	Tests on impact behaviour of micro-concrete-filled steel tubes at elevated temperatures up to 400°C. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009, 42, 1325-1334.	3.1	56
24	Uniaxial concrete tension damage evolution using acoustic emission monitoring. <i>Construction and Building Materials</i> , 2020, 232, 117281.	7.2	52
25	Experimental Studies on Concrete Filled Steel Tubes under High Strain Rate Loading. <i>Journal of Materials in Civil Engineering</i> , 2009, 21, 569-577.	2.9	50
26	Behavior of Concrete Filled Tubes and Confined Concrete Filled Tubes under High Speed Impact. <i>Advances in Structural Engineering</i> , 2007, 10, 209-218.	2.4	49
27	Impact Tests of Model RC Columns by an Equivalent Truck Frame. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	49
28	An experimental study on shear strength of glulam. <i>Construction and Building Materials</i> , 2017, 150, 490-500.	7.2	49
29	Reduced Models for Simulating Collisions between Trucks and Bridge Piers. <i>Journal of Bridge Engineering</i> , 2016, 21, .	2.9	47
30	Effectiveness of CFRP Confinement and Compressive Strength of Square Concrete Columns. <i>Journal of Composites for Construction</i> , 2019, 23, .	3.2	46
31	Full-scale testing of a parking structure column retrofitted with carbon fiber reinforced composites. <i>Construction and Building Materials</i> , 2000, 14, 63-71.	7.2	45
32	Analytical Studies of Concrete-Filled Circular Steel Tubes under Axial Compression. <i>Journal of Structural Engineering</i> , 2010, 136, 565-573.	3.4	45
33	Mechanical behavior of connections for glulam-concrete composite beams. <i>Construction and Building Materials</i> , 2017, 143, 158-168.	7.2	44
34	Experimental studies on roof trusses made of glulam. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1879-1890.	3.1	43
35	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
36	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

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37	Experimental research on concrete-filled RPC tubes under axial compression load. <i>Engineering Structures</i> , 2018, 155, 358-370.	5.3	40
38	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
39	Impact Behavior of CFRP-Strip-Wrapped RC Beams without Stirrups. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	39
40	Mechanical Properties of Engineered Bamboo Boards for Glulam Structures. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	2.9	39
41	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
42	Compressive Behavior of Engineered Cementitious Composites under High Strain-Rate Loading. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	37
43	On the form of the Musmeci's bridge over the Basento river. <i>Engineering Structures</i> , 2019, 191, 658-673.	5.3	37
44	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
45	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
46	CFRP Strip Cable Retrofit of RC Frame for Collapse Resistance. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	33
47	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
48	Performance of connection system used in lightweight glulam shear wall. <i>Construction and Building Materials</i> , 2019, 206, 419-431.	7.2	32
49	Steel and glulam hybrid space truss. <i>Engineering Structures</i> , 2018, 171, 140-153.	5.3	31
50	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
51	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
52	Compressive impact tests of lightweight concrete with 155-mm-diameter spilt hopkinson pressure bar. <i>Cement and Concrete Composites</i> , 2020, 114, 103816.	10.7	30
53	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
54	Bending performance of glulam beams made with different processes. <i>Advances in Structural Engineering</i> , 2019, 22, 535-546.	2.4	29

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55	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
56	Seismic behavior of cold-formed steel frame shear walls sheathed with ply-bamboo panels. <i>Journal of Constructional Steel Research</i> , 2017, 132, 217-229.	3.9	28
57	Residual Performance of FRP-Retrofitted RC Columns after Being Subjected to Cyclic Loading Damage. <i>Journal of Composites for Construction</i> , 2006, 10, 304-312.	3.2	27
58	Lateral Loading Performance of Lightweight Glulam Shear Walls. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	27
59	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
60	A Pilot Study on Cross-Laminated Bamboo and Timber Beams. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	27
61	Dynamic Behavior of CFRP-Strengthened Reinforced Concrete Beams without Stirrups under Impact Loading. <i>ACI Structural Journal</i> , 2018, 115, .	0.2	27
62	Experimental Study on Dynamic Behavior of CFRP-to-Concrete Interface. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	26
63	Seismic Behavior of CFT Column and Steel Pile Footings. <i>Journal of Bridge Engineering</i> , 2011, 16, 575-586.	2.9	25
64	Experimental and Analytical Investigations on Short-Term Behavior of Glulam-Concrete Composite Beams. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	25
65	Experimental Studies on Seismic Behavior of Steel Pile-to-Pile-Cap Connections. <i>Journal of Bridge Engineering</i> , 2006, 11, 151-159.	2.9	24
66	Structural behavior of glulam I-joists. <i>Construction and Building Materials</i> , 2019, 224, 292-305.	7.2	23
67	Experimental study of an unsymmetrical prefabricated hybrid steel-bamboo roof truss. <i>Engineering Structures</i> , 2019, 201, 109781.	5.3	23
68	Long-Term Loading Behavior of a Full-Scale Glulam Bridge Model. <i>Journal of Bridge Engineering</i> , 2014, 19, .	2.9	20
69	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
70	High-strain rate compressive behavior of Douglas fir and glulam. <i>Construction and Building Materials</i> , 2020, 258, 119466.	7.2	19
71	Axially loaded single threaded rod glued in glulam joint. <i>Construction and Building Materials</i> , 2020, 244, 118302.	7.2	19
72	High-strain rate compressive behavior of Fiber-Reinforced Rubberized Concrete. <i>Construction and Building Materials</i> , 2022, 319, 125739.	7.2	19

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73	Experimental study on dynamic behavior of GFRP-to-concrete interface. <i>Engineering Structures</i> , 2016, 118, 371-382.	5.3	16
74	Macro-Modeling of Reinforced Concrete Structural Walls: State-of-the-Art. <i>Journal of Earthquake Engineering</i> , 2017, 21, 652-678.	2.5	16
75	Axial impact behaviors of stub concrete-filled square steel tubes. <i>Advances in Structural Engineering</i> , 2019, 22, 2490-2503.	2.4	16
76	Experimental Study on Dynamic Behavior of Concrete at Elevated Temperatures. <i>Advanced Science Letters</i> , 2011, 4, 1128-1131.	0.2	16
77	Seismic behavior of high strength concrete composite walls with embedded steel truss. <i>Journal of Constructional Steel Research</i> , 2016, 118, 180-193.	3.9	15
78	Creep Behavior of Glulam and CFRP-Enhanced Glulam Beams. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	15
79	Design Embedment Strength of Plybamboo Panels Used for GluBam. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	15
80	Post-Earthquake Fire Resistance of Circular Concrete-Filled Steel Tubular Columns. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	15
81	Experimental research on seismic behavior of concrete-filled reactive powder concrete tubular columns. <i>Engineering Structures</i> , 2021, 233, 111921.	5.3	15
82	Glue Laminated Bamboo (GluBam) for Structural Applications. , 2014, , 589-601.		15
83	High-strain rate tension behavior of Fiber-Reinforced Rubberized Concrete. <i>Cement and Concrete Composites</i> , 2022, 131, 104554.	10.7	15
84	Bolted end plate connections for steel reinforced concrete composite structures. <i>Structural Engineering and Mechanics</i> , 2006, 24, 291-306.	1.0	14
85	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
86	Experimental research on compressive behavior of seawater and sea sand concrete-filled RPC tubes. <i>Engineering Structures</i> , 2020, 222, 111117.	5.3	13
87	Experimental Study on Axial Pull-Out Behavior of Steel Rebars Glued-In Glulam. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	13
88	Experimental investigation on flexural behavior of full-scale glued laminated bamboo (glulam)-concrete composite beams: A case study of using recycled concrete aggregates. <i>Engineering Structures</i> , 2021, 233, 111896.	5.3	13
89	Triaxial Compressive Behavior of Confined Concrete. <i>Concrete Research and Technology</i> , 1991, 2, 1-14.	0.1	12
90	Assessing adhesion and glue-line defects in cold-pressing lamination of glulam. <i>Construction and Building Materials</i> , 2021, 274, 122106.	7.2	12

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91	Seismic behavior of high strength concrete beams. <i>Structural Design of Tall Buildings</i> , 1998, 7, 73-90.	0.3	11
92	Networked pseudodynamic testing of bridge pier and precast pile foundation. <i>Engineering Structures</i> , 2012, 38, 32-41.	5.3	11
93	Engineered Bamboo. , 2016, , 433-452.		11
94	Experimental dynamic characterization of a new composite glulam-steel truss structure. <i>Journal of Building Engineering</i> , 2019, 25, 100773.	3.4	11
95	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
96	Cyclic Testing of Moment Connections Upgraded with Weld Overlays. <i>Journal of Structural Engineering</i> , 2002, 128, 509-516.	3.4	10
97	Experimental and numerical study on the behavior of circular RC columns under impact loading. <i>Procedia Engineering</i> , 2017, 199, 2457-2462.	1.2	10
98	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
99	Seismic performance of reinforced concrete squat walls with embedded cold-formed and thin walled steel truss. <i>Engineering Structures</i> , 2017, 132, 714-732.	5.3	9
100	Uniaxial Compressive Behavior of Granite at High Strain Rates. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 4695-4721.	5.4	9
101	Development of a new type Glulam“GluBam. , 2008, , 41-47.		9
102	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
103	Performance of laterally loaded H-piles in sand. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 67, 316-325.	3.8	8
104	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
105	Flexural-Shear Behavior of High-Strength Concrete Short Columns. <i>Earthquake Spectra</i> , 2001, 17, 679-695.	3.1	7
106	A new hybrid heating method used in fire test. <i>Experimental Thermal and Fluid Science</i> , 2015, 62, 52-57.	2.7	7
107	Influence of longitudinal bar corrosion on impact behavior of RC beams. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 3579-3589.	3.1	7
108	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

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109	Mechanical Properties of Glubam Sheets after Artificial Accelerated Aging. Key Engineering Materials, 0, 517, 43-50.	0.4	6
110	Experimental research on novel RPC-steel composite connections for prefabricated glubam-concrete composite beams. Construction and Building Materials, 2022, 333, 127397.	7.2	6
111	Networked collaborative pseudo-dynamic testing of a multi-span bridge based on NetSlab. Earthquake Engineering and Engineering Vibration, 2009, 8, 387-397.	2.3	5
112	Monotonic and Cyclic Tests of Round Bamboo Shear Walls. Key Engineering Materials, 0, 517, 135-140.	0.4	5
113	Low cyclic fatigue performance of concrete-filled steel tube columns. Journal of Central South University, 2015, 22, 4035-4042.	3.0	5
114	Experimental studies on bolted glubam connections. Advances in Structural Engineering, 2021, 24, 3010-3020.	2.4	5
115	Experimental studies on glubam columns under axial compression. Journal of Building Engineering, 2022, 49, 103453.	3.4	5
116	Experimental study on dynamic behavior of CFRP-to-steel interface. Structures, 2019, 20, 465-475.	3.6	4
117	Numerical studies on full-scale steel columns under complex seismic loading. Journal of Constructional Steel Research, 2020, 172, 106227.	3.9	4
118	Developing Modern Bamboo Structures for Sustainable Construction. , 2009, , .		3
119	Experimental Study of Glubam Single-Bolted Joint Loaded by Tension. Key Engineering Materials, 0, 517, 34-42.	0.4	3
120	Pull-Out Behavior of CFRP Bars in Glued-In Glubam Joints. Journal of Composites for Construction, 2021, 25, .	3.2	3
121	Development of structural testing equipment for impact and complex loading. Journal of Structural Integrity and Maintenance, 2021, 6, 1-15.	1.5	3
122	Fast modeling of lightweight glubam frame structures based on connection test information. Structural Design of Tall and Special Buildings, 2022, 31, e1903.	1.9	3
123	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;34:1407-1425. Earthquake Engineering and Structural Dynamics, 2006, 35, 1581-1583.	4.4	2
124	Design and construction of a modern bamboo pedestrian bridge. , 2008, , 231-237.		2
125	Seismic behavior of wide-flange steel column with confined potential plastic hinge. Journal of Constructional Steel Research, 2009, 65, 808-817.	3.9	2
126	Experimental Study on Creep and Mechanical Behavior of Modern Bamboo Bridge Structure. Key Engineering Materials, 2012, 517, 141-149.	0.4	2

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127	Experimental Studies on Glue-Laminated Bamboo Trusses. <i>Advanced Materials Research</i> , 0, 639-640, 757-762.	0.3	2
128	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
129	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
130	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
131	Flexural Fatigue Study of Glubam Beams. <i>Key Engineering Materials</i> , 0, 517, 158-163.	0.4	1
132	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
133	Engineered bamboo in China. , 2020, , 625-643.		1
134	Flammability Assessment of GluBam with Cone-Calorimeter Tests. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, 04021060.	2.9	1
135	Seismic Behavior of Buckling Restrained Braced Composite Frames. <i>Advanced Science Letters</i> , 2011, 4, 2968-2972.	0.2	1
136	Closure to "Retrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jackets" by Yan Xiao and Hui Wu. <i>Journal of Structural Engineering</i> , 2005, 131, 365-366.	3.4	0
137	Closure to "Retrofit of Reinforced Concrete Columns Using Partially Stiffened Steel Jackets" by Yan Xiao and Hui Wu. <i>Journal of Structural Engineering</i> , 2005, 131, 365-365.	3.4	0
138	The 2019 International Bamboo Construction Competition. <i>Springer Tracts in Civil Engineering</i> , 2022, , 1-13.	0.5	0
139	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
140	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