

Sun Xiaofeng

List of Publications by Year in descending order

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54
papers

1,022
citations

567281

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h-index

454955

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54
docs citations

54
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel engineered wood and bamboo composites for structural applications: State-of-art of manufacturing technology and mechanical performance evaluation. <i>Construction and Building Materials</i> , 2020, 249, 118751.	7.2	262
2	Bending and compressive properties of cross-laminated timber (CLT) panels made from Canadian hemlock. <i>Construction and Building Materials</i> , 2018, 185, 175-183.	7.2	93
3	Hysteretic Performance of Self-Centering Glulam Beam-to-Column Connections. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	57
4	Production and mechanical performance of scrimber composite manufactured from poplar wood for structural applications. <i>Journal of Wood Science</i> , 2016, 62, 429-440.	1.9	42
5	Experimental buckling performance of scrimber composite columns under axial compression. <i>Composites Part B: Engineering</i> , 2016, 86, 203-213.	12.0	35
6	Lateral Performance of Self-Centering Steel-Timber Hybrid Shear Walls with Slip-Friction Dampers: Experimental Investigation and Numerical Simulation. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	34
7	Seismic performance assessment of conventional CLT shear wall structures and post-tensioned CLT shear wall structures. <i>Engineering Structures</i> , 2019, 196, 109285.	5.3	33
8	Finite element modeling and parametric analysis of timber-steel hybrid structures. <i>Structural Design of Tall and Special Buildings</i> , 2014, 23, 1045-1063.	1.9	31
9	Selective recovery of phosphorus and urea from fresh human urine using a liquid membrane chamber integrated flow-electrode electrochemical system. <i>Water Research</i> , 2021, 202, 117423.	11.3	30
10	Experimental and Analytical Investigations into Lateral Performance of Cross-Laminated Timber (CLT) Shear Walls with Different Construction Methods. <i>Journal of Earthquake Engineering</i> , 2022, 26, 3724-3746.	2.5	28
11	Bending, shear, and compressive properties of three- and five-layer cross-laminated timber fabricated with black spruce. <i>Journal of Wood Science</i> , 2020, 66, .	1.9	25
12	Experimental investigations on mechanical properties and column buckling behavior of structural bamboo. <i>Structural Design of Tall and Special Buildings</i> , 2015, 24, 491-503.	1.9	22
13	Performance evaluation of multi-storey cross-laminated timber structures under different earthquake hazard levels. <i>Journal of Wood Science</i> , 2018, 64, 23-39.	1.9	21
14	Experimental Testing and Analytical Modeling of Glulam Moment Connections with Self-Drilling Dowels. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	16
15	Load-sharing mechanism in timber-steel hybrid shear wall systems. <i>Frontiers of Structural and Civil Engineering</i> , 2015, 9, 203-214.	2.9	15
16	Experimental and Analytical Lateral Performance of Posttensioned CLT Shear Walls and Conventional CLT Shear Walls. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	15
17	Experimental investigation on the rheological behavior of timber in longitudinal and transverse compression. <i>Construction and Building Materials</i> , 2021, 304, 124633.	7.2	15
18	Mechanical Behavior of Dowel-Type Joints Made of Wood Scrimber Composite. <i>Materials</i> , 2016, 9, 581.	2.9	13

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19	Reliability-based investigation into the duration of load effect for the design of timber structures based on Chinese standard. <i>Structural Safety</i> , 2020, 87, 102001.	5.3	13
20	Development of a uniaxial hysteretic model for dowel-type timber joints in OpenSees. <i>Construction and Building Materials</i> , 2021, 288, 123112.	7.2	13
21	Seismic performance of energy-dissipating post-tensioned CLT shear wall structures I: Shear wall modeling and design procedure. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106022.	3.8	12
22	Self-centering steel-timber hybrid shear wall with slip friction dampers: Theoretical analysis and experimental investigation. <i>Structural Design of Tall and Special Buildings</i> , 2020, 29, e1789.	1.9	12
23	Experimental investigation into the mechanical properties of scrimber composite for structural applications. <i>Construction and Building Materials</i> , 2021, 276, 122234.	7.2	12
24	Experimental study on the system effect of bending cross-laminated timber fabricated with Karamatsu larch. <i>Construction and Building Materials</i> , 2021, 299, 124271.	7.2	12
25	Blockchain-enhanced trading systems for construction industry to control carbon emissions. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1851-1870.	4.1	12
26	Probabilistic seismic performance assessment of timber-steel hybrid structures subjected to mainshock-aftershock sequences. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 141, 106532.	3.8	11
27	Mechanical performance of pre-fabricated metal dovetail connections for Cross-Laminated Timber (CLT) structures. <i>Construction and Building Materials</i> , 2021, 303, 124468.	7.2	10
28	An Experimental and Analytical Study on the Bending Performance of CFRP-Reinforced Glulam Beams. <i>Frontiers in Materials</i> , 2022, 8, .	2.4	10
29	Prediction of Damage Accumulation Effect of Wood Structural Members under Long-Term Service: A Machine Learning Approach. <i>Materials</i> , 2019, 12, 1243.	2.9	9
30	Seismic performance of energy-dissipating post-tensioned CLT shear wall structures II: Dynamic analysis and dissipater comparison. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 130, 105980.	3.8	9
31	Potential Loss in Prestressing Tendon Forces under Long-Term Service Conditions: Cross-Laminated Timber Shear Wall Applications. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	9
32	Bolted joints for small and medium reticulated timber domes: experimental study, numerical simulation, and design strength estimation. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	8
33	Quasi-static tests and parametric simulations of hybrid steel frame and light wood shear walls with frictional dampers. <i>Engineering Structures</i> , 2021, 228, 111485.	5.3	8
34	Modern timber construction technology and engineering applications in China. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2019, 172, 17-27.	0.3	7
35	Experimental and analytical investigations into the time-dependent performance in post-tensioned timber beam-column joints under sustained loads and varied environment. <i>Construction and Building Materials</i> , 2020, 251, 118943.	7.2	6
36	Structural Damage Evaluation of Multistory Timber-Steel Hybrid Structures through Shake Table Tests. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	2.0	6

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37	Seismic performance evaluation of glulam structures with either braced frames or knee-braced frames as the main lateral load resisting system. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 154, 107134.	3.8	6
38	Estimating inelastic drift demands for wood portal frame systems considering accumulated damages. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1440.	1.9	5
39	Compressive behavior of glulam columns with initial cracks under eccentric loads. <i>International Journal of Advanced Structural Engineering</i> , 2018, 10, 111-119.	1.3	5
40	Experimental and Numerical Investigation of Long-Term Loss of Prestressing Force in Posttensioned Timber Joints with Different Structural Details. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	5
41	Mechanical performance of glulam beam-to-column connections with coach screws as fasteners. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	4
42	Seismic performance of self-centering steel-timber hybrid shear wall structures. <i>Journal of Building Engineering</i> , 2021, 43, 102530.	3.4	4
43	Experimental and numerical investigation into the fire performance of glulam bolted beam-to-column connections under coupled moment and shear force. <i>Journal of Building Engineering</i> , 2022, 46, 103804.	3.4	4
44	Experimental investigations into the mechanical performance of glulam dowel-type connections with either bolts or screws as fasteners. <i>Journal of Wood Science</i> , 2021, 67, .	1.9	4
45	Experimental evaluation of the lateral load distribution in the elastic-plastic phase of timber-steel hybrid structures with a novel light timber-steel diaphragm. <i>Advances in Structural Engineering</i> , 2019, 22, 1965-1976.	2.4	3
46	Self-Centering Steel-Timber Hybrid Shear Wall: Experimental Test and Parametric Analysis. <i>Materials</i> , 2020, 13, 2518.	2.9	3
47	Analytical prediction of the fire resistance of the glulam bolted connections under coupled moment and shear. <i>Journal of Building Engineering</i> , 2021, 33, 101531.	3.4	3
48	Experimental Investigation and On-Site Measurement of Reverse-Balanced Flange Connections in Wind Turbine Towers. <i>Advances in Structural Engineering</i> , 2015, 18, 1215-1225.	2.4	2
49	Seismic performance of multi-story glulam post-and-beam structures reinforced with knee-braces. <i>Journal of Building Engineering</i> , 2021, 44, 102887.	3.4	2
50	Experimental and numerical investigation into the bending behavior of stiffened hollow glulam beams. <i>Journal of Building Engineering</i> , 2022, 45, 103488.	3.4	2
51	Long-term performance of post-tensioned cross-laminated timber (CLT) shear walls: hygro-mechanical model validation and parametric analysis. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	2
52	Experimental investigation on the influence of lamination aspect ratios on rolling shear strength of cross-laminated timber. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	1
53	Analytical Investigations on the Glulam Beam-to-Column Connections Reinforced with Knee Braces. <i>Journal of Architectural Engineering</i> , 2022, 28, .	1.6	1
54	Performance-based design framework for wind turbine towers to improve lifetime profitability. <i>Structure and Infrastructure Engineering</i> , 0, , 1-19.	3.7	0