

Yu Bai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2750134/publications.pdf>

Version: 2024-02-01

194
papers

7,540
citations

46918

47
h-index

82410

72
g-index

205
all docs

205
docs citations

205
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	New advancements, challenges and opportunities of multi-storey modular buildings – A state-of-the-art review. <i>Engineering Structures</i> , 2019, 183, 883-893.	2.6	345
2	Mechanical behavior of concrete-filled square steel tube with FRP-confined concrete core subjected to axial compression. <i>Composite Structures</i> , 2015, 123, 312-324.	3.1	275
3	Modeling of stiffness of FRP composites under elevated and high temperatures. <i>Composites Science and Technology</i> , 2008, 68, 3099-3106.	3.8	172
4	Mechanical characterization of steel/CFRP double strap joints at elevated temperatures. <i>Composite Structures</i> , 2011, 93, 1604-1612.	3.1	152
5	Durability of steel/CFRP double strap joints exposed to sea water, cyclic temperature and humidity. <i>Composite Structures</i> , 2012, 94, 1834-1845.	3.1	142
6	Experimental and modeling study of high-strength structural steel under cyclic loading. <i>Engineering Structures</i> , 2012, 37, 1-13.	2.6	128
7	Connections and structural applications of fibre reinforced polymer composites for civil infrastructure in aggressive environments. <i>Composites Part B: Engineering</i> , 2019, 164, 129-143.	5.9	127
8	A review of the fire behaviour of pultruded GFRP structural profiles for civil engineering applications. <i>Composite Structures</i> , 2015, 127, 267-287.	3.1	121
9	Modeling of thermal responses for FRP composites under elevated and high temperatures. <i>Composites Science and Technology</i> , 2008, 68, 47-56.	3.8	105
10	Mechanical performance of stirrup-confined concrete-filled steel tubular stub columns under axial loading. <i>Journal of Constructional Steel Research</i> , 2014, 98, 146-157.	1.7	98
11	Lean Methodologies and Techniques for Modular Construction: Chronological and Critical Review. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	97
12	Local buckling of 460MPa high strength steel welded section stub columns under axial compression. <i>Journal of Constructional Steel Research</i> , 2014, 100, 60-70.	1.7	96
13	Effects of ultraviolet radiation and associated elevated temperature on mechanical performance of steel/CFRP double strap joints. <i>Composite Structures</i> , 2012, 94, 3563-3573.	3.1	94
14	Elasto-plastic analysis of circular concrete-filled steel tube stub columns. <i>Journal of Constructional Steel Research</i> , 2011, 67, 1567-1577.	1.7	87
15	Mechanical performance of bolted modular GFRP composite sandwich structures using standard and blind bolts. <i>Composite Structures</i> , 2014, 117, 59-70.	3.1	85
16	Optimization modeling of multi-skilled resources in prefabrication: Theorizing cost analysis of process integration in off-site construction. <i>Automation in Construction</i> , 2018, 95, 1-9.	4.8	85
17	Long-Term Performance of a Glass Fiber-Reinforced Polymer Truss Bridge. <i>Journal of Composites for Construction</i> , 2007, 11, 99-108.	1.7	84
18	Residual stress of 460 MPa high strength steel welded i section: Experimental investigation and modeling. <i>International Journal of Steel Structures</i> , 2013, 13, 691-705.	0.6	82

#	ARTICLE	IF	CITATIONS
19	Fire protection systems for building floors made of pultruded GFRP profiles. Composites Part B: Engineering, 2010, 41, 617-629.	5.9	81
20	Optimizing decisions in advanced manufacturing of prefabricated products: Theorizing supply chain configurations in off-site construction. Automation in Construction, 2017, 84, 146-153.	4.8	81
21	New Connection System for Confined Concrete Columns and Beams. I: Experimental Study. Journal of Structural Engineering, 2008, 134, 1787-1799.	1.7	78
22	Behaviour of CFRP-confined concrete-filled circular steel tube stub columns under axial loading. Thin-Walled Structures, 2018, 125, 107-118.	2.7	78
23	Durability of seawater and sea sand concrete filled filament wound FRP tubes under seawater environments. Composites Part B: Engineering, 2020, 202, 108409.	5.9	78
24	Full-scale fire experiments on load-bearing cold-formed steel walls lined with different panels. Journal of Constructional Steel Research, 2012, 79, 242-254.	1.7	75
25	Improved fire resistant performance of load bearing cold-formed steel interior and exterior wall systems. Thin-Walled Structures, 2013, 73, 145-157.	2.7	70
26	Mechanical performance of innovative GFRP-bamboo-wood sandwich beams: Experimental and modelling investigation. Composites Part B: Engineering, 2015, 79, 182-196.	5.9	68
27	Structural performance of a large-scale space frame assembled using pultruded GFRP composites. Composite Structures, 2015, 133, 986-996.	3.1	68
28	Comparative study of square stirrup-confined concrete-filled steel tubular stub columns under axial loading. Thin-Walled Structures, 2016, 98, 443-453.	2.7	68
29	Adhesively bonded modular GFRP web-flange sandwich for building floor construction. Composite Structures, 2014, 111, 381-392.	3.1	67
30	Effect of Dynamic Loading and Environmental Conditions on the Bond between CFRP and Steel: State-of-the-Art Review. Journal of Composites for Construction, 2014, 18, .	1.7	66
31	Experimental investigations on temperature-dependent thermo-physical and mechanical properties of pultruded GFRP composites. Thermochimica Acta, 2008, 469, 28-35.	1.2	65
32	Modeling of Strength Degradation for Fiber-reinforced Polymer Composites in Fire. Journal of Composite Materials, 2009, 43, 2371-2385.	1.2	64
33	Strengthening of steel members in compression by mortar-filled FRP tubes. Thin-Walled Structures, 2013, 64, 1-12.	2.7	64
34	Bond-slip behaviour between FRP tubes and seawater sea sand concrete. Engineering Structures, 2019, 197, 109421.	2.6	63
35	Web crippling behaviour of pultruded glass fibre reinforced polymer sections. Composite Structures, 2014, 108, 789-800.	3.1	58
36	Mechanical performance of two-way modular FRP sandwich slabs. Composite Structures, 2018, 184, 904-916.	3.1	58

#	ARTICLE	IF	CITATIONS
37	Durability of pultruded GFRP tubes subjected to seawater sea sand concrete and seawater environments. <i>Construction and Building Materials</i> , 2020, 245, 118399.	3.2	57
38	Random dynamic analysis of a train-bridge coupled system involving random system parameters based on probability density evolution method. <i>Probabilistic Engineering Mechanics</i> , 2016, 46, 48-61.	1.3	56
39	An efficient multi-time-step method for train-track-bridge interaction. <i>Computers and Structures</i> , 2018, 196, 36-48.	2.4	56
40	Seismic damage evaluation of high-speed railway bridge components under different intensities of earthquake excitations. <i>Engineering Structures</i> , 2017, 152, 116-128.	2.6	54
41	Flexural responses and pseudo-ductile performance of lattice-web reinforced GFRP-wood sandwich beams. <i>Composites Part B: Engineering</i> , 2017, 108, 364-376.	5.9	54
42	Time-dependent behaviour of steel/CFRP double strap joints subjected to combined thermal and mechanical loading. <i>Composite Structures</i> , 2012, 94, 1826-1833.	3.1	53
43	Fiber reinforced composites sandwich panels with web reinforced wood core for building floor applications. <i>Composites Part B: Engineering</i> , 2018, 150, 196-211.	5.9	52
44	Shear Failure of Pultruded Fiber-Reinforced Polymer Composites under Axial Compression. <i>Journal of Composites for Construction</i> , 2009, 13, 234-242.	1.7	51
45	Effects of UV radiation, moisture and elevated temperature on mechanical properties of GFRP pultruded profiles. <i>Construction and Building Materials</i> , 2020, 231, 117137.	3.2	51
46	Novel Joint for Assembly of All-Composite Space Truss Structures: Conceptual Design and Preliminary Study. <i>Journal of Composites for Construction</i> , 2013, 17, 130-138.	1.7	50
47	Efficient assessment of 3D train-track-bridge interaction combining multi-time-step method and moving track technique. <i>Engineering Structures</i> , 2019, 183, 290-302.	2.6	50
48	Progressive collapse analysis and structural robustness of steel-framed modular buildings. <i>Engineering Failure Analysis</i> , 2019, 104, 643-656.	1.8	49
49	Mechanical behavior of geopolymers concrete subjected to high strain rate compressive loadings. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 671-681.	1.3	48
50	Modeling of mechanical response of FRP composites in fire. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 731-738.	3.8	47
51	Seismic performance of prefabricated steel beam-to-column connections. <i>Journal of Constructional Steel Research</i> , 2014, 102, 204-216.	1.7	47
52	Comparative Study on Static and Fatigue Performances of Pultruded GFRP Joints Using Ordinary and Blind Bolts. <i>Journal of Composites for Construction</i> , 2015, 19, .	1.7	47
53	Curing effects on steel/CFRP double strap joints under combined mechanical load, temperature and humidity. <i>Construction and Building Materials</i> , 2013, 40, 899-907.	3.2	46
54	Large diameter concrete-filled high strength steel tubular stub columns under compression. <i>Thin-Walled Structures</i> , 2016, 108, 12-19.	2.7	46

#	ARTICLE	IF	CITATIONS
55	Capacity of steel CHS X-joints strengthened with external stiffening rings in compression. Thin-Walled Structures, 2017, 115, 110-118.	2.7	46
56	Short-term flexural behaviour of concrete filled pultruded GFRP cellular and tubular sections with pin-eye connections for modular retaining wall construction. Composite Structures, 2018, 206, 1-10.	3.1	46
57	Pre-buckling and post-buckling failure at web-flange junction of pultruded GFRP beams. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1143-1154.	1.3	45
58	Bolted Sleeve Joints for Connecting Pultruded FRP Tubular Components. Journal of Composites for Construction, 2016, 20, .	1.7	45
59	Mechanical performance of modular FRP-steel composite beams for building construction. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4113-4129.	1.3	45
60	Bending performance of GFRP-wood sandwich beams with lattice-web reinforcement in flatwise and sidewise directions. Construction and Building Materials, 2017, 156, 532-545.	3.2	45
61	Modal parameter identification for a GFRP pedestrian bridge. Composite Structures, 2008, 82, 90-100.	3.1	44
62	New Connection System for Confined Concrete Columns and Beams. II: Theoretical Modeling. Journal of Structural Engineering, 2008, 134, 1800-1809.	1.7	44
63	Fire protection systems for building floors made of pultruded GFRP profiles “ Part 2: Modeling of thermomechanical responses. Composites Part B: Engineering, 2010, 41, 630-636.	5.9	44
64	Modular assembly of water-retaining walls using GFRP hollow profiles: Components and connection performance. Composite Structures, 2018, 194, 1-11.	3.1	44
65	Bayesian dynamic regression for reconstructing missing data in structural health monitoring. Structural Health Monitoring, 2022, 21, 2097-2115.	4.3	44
66	An efficient approach for prediction of subway train-induced ground vibrations considering random track unevenness. Journal of Sound and Vibration, 2019, 455, 359-379.	2.1	43
67	Combination of Bamboo Filling and FRP Wrapping to Strengthen Steel Members in Compression. Journal of Composites for Construction, 2013, 17, 347-356.	1.7	42
68	Effect of strain rate on splitting tensile strength of geopolymer concrete. Magazine of Concrete Research, 2014, 66, 825-835.	0.9	42
69	Mechanical properties of pultruded GFRP profiles under seawater sea sand concrete environment coupled with UV radiation and moisture. Construction and Building Materials, 2020, 258, 120369.	3.2	42
70	Effect of Fibers Configuration and Thickness on Tensile Behavior of GFRP Laminates Exposed to Harsh Environment. Polymers, 2019, 11, 1401.	2.0	41
71	Bond performance between FRP tubes and seawater sea sand concrete after exposure to seawater condition. Construction and Building Materials, 2020, 265, 120342.	3.2	41
72	Modeling of post-fire stiffness of E-glass fiber-reinforced polyester composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2142-2153.	3.8	39

#	ARTICLE	IF	CITATIONS
73	Improved Mode I fracture resistance of CFRP composites by reinforcing epoxy matrix with recycled short milled carbon fibre. Construction and Building Materials, 2016, 111, 399-407.	3.2	39
74	Load-Strain Model for Steel-Concrete-FRP-Concrete Columns in Axial Compression. Journal of Composites for Construction, 2016, 20, .	1.7	38
75	Effects of thermal loading history on structural adhesive modulus across glass transition. Construction and Building Materials, 2011, 25, 2162-2168.	3.2	37
76	Low cycle fatigue property and fracture behavior of low yield point steels. Construction and Building Materials, 2018, 165, 688-696.	3.2	37
77	Thermal and Mechanical Modeling of Load-Bearing Cold-Formed Steel Wall Systems in Fire. Journal of Structural Engineering, 2014, 140, .	1.7	36
78	Connections of tubular GFRP wall studs to steel beams for building construction. Composites Part B: Engineering, 2016, 95, 64-75.	5.9	36
79	Dynamic and fatigue performances of a large-scale space frame assembled using pultruded GFRP composites. Composite Structures, 2016, 138, 227-236.	3.1	36
80	A hybrid solution for studying vibrations of coupled trainâ€“trackâ€“bridge system. Advances in Structural Engineering, 2017, 20, 1699-1711.	1.2	35
81	Joint capacity of bonded sleeve connections for tubular fibre reinforced polymer members. Composite Structures, 2017, 163, 267-279.	3.1	35
82	Pultruded GFRP square hollow columns with bolted sleeve joints under eccentric compression. Composites Part B: Engineering, 2019, 162, 274-282.	5.9	35
83	Durability of glass-fibre-reinforced polymer composites under seawater and sea-sand concrete coupled with harsh outdoor environments. Advances in Structural Engineering, 2021, 24, 1090-1109.	1.2	35
84	Delamination of pultruded glass fiber-reinforced polymer composites subjected to axial compression. Composite Structures, 2009, 91, 66-73.	3.1	34
85	Capacity of nonlinear large deformation for trusses assembled by brittle FRP composites. Composite Structures, 2012, 94, 3347-3353.	3.1	32
86	Composite actions within steel-FRP composite beam systems with novel blind bolt shear connections. Engineering Structures, 2017, 138, 63-73.	2.6	32
87	Mechanical performance of concrete pavement reinforced by CFRP grids for bridge deck applications. Composites Part B: Engineering, 2017, 110, 315-335.	5.9	32
88	Cyclic performance of bonded sleeve beam-column connections for FRP tubular sections. Composites Part B: Engineering, 2018, 142, 171-182.	5.9	32
89	Performance Improvement for Building Integrated Photovoltaics in Practice: A Review. Energies, 2021, 14, 178.	1.6	32
90	Time Dependence of Material Properties of FRP Composites in Fire. Journal of Composite Materials, 2009, 43, 2469-2484.	1.2	31

#	ARTICLE	IF	CITATIONS
91	Fire Performance of Water-Cooled GFRP Columns. I: Fire Endurance Investigation. Journal of Composites for Construction, 2011, 15, 404-412.	1.7	31
92	Web crippling behavior of pultruded GFRP channel sections under transverse bearing load. Composite Structures, 2019, 209, 129-142.	3.1	31
93	Mechanical performance of novel steel one-sided bolted joints in shear. Journal of Constructional Steel Research, 2020, 165, 105815.	1.7	31
94	Bonded sleeve connections for joining tubular GFRP beam to steel member: Numerical investigation with experimental validation. Composite Structures, 2016, 157, 51-61.	3.1	30
95	Temperature-sensitive mechanical properties of GFRP composites in longitudinal and transverse directions: A comparative study. Composite Structures, 2017, 173, 255-267.	3.1	30
96	Bending behaviour of precast concrete slab with externally flanged hollow FRP tubes. Engineering Structures, 2021, 241, 112433.	2.6	30
97	Axial compression capacity of steel CHS X-joints strengthened with external stiffeners. Journal of Constructional Steel Research, 2018, 141, 156-166.	1.7	30
98	Composite frame of circular CFST column to steel-concrete composite beam under lateral cyclic loading. Thin-Walled Structures, 2018, 122, 137-146.	2.7	29
99	Safety management in construction: 20 years of risk modeling. Safety Science, 2020, 129, 104805.	2.6	29
100	An integrated review of automation and robotic technologies for structural prefabrication and construction. Transportation Safety and Environment, 2020, 2, 81-96.	1.1	28
101	Capacity of steel CHS T-joints strengthened with external stiffeners under axial compression. Thin-Walled Structures, 2017, 113, 39-46.	2.7	27
102	Bonded Sleeve Connections for Joining Tubular Glass Fiber-Reinforced Polymer Beams and Columns: Experimental and Numerical Studies. Journal of Composites for Construction, 2018, 22, .	1.7	27
103	Improved measure of beam-to-column joint rotation in steel frames. Journal of Constructional Steel Research, 2012, 70, 298-307.	1.7	26
104	Experimental Study on Seismic Behavior of 460MPa High Strength Steel Box-Section Columns. Advances in Structural Engineering, 2014, 17, 1045-1059.	1.2	26
105	Member Capacity of Pultruded GFRP Tubular Profile with Bolted Sleeve Joints for Assembly of Latticed Structures. Journal of Composites for Construction, 2016, 20, .	1.7	26
106	Fiber-Reinforced Polymer Composite Members with Adhesive Bonded Sleeve Joints for Space Frame Structures. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	26
107	Post-fire mechanical performance of modular GFRP multicellular slabs with prefabricated fire resistant panels. Composites Part B: Engineering, 2018, 143, 55-67.	5.9	26
108	Behaviour of pultruded GFRP truss system connected using through-bolt with mechanical insert. Composites Part B: Engineering, 2019, 168, 44-57.	5.9	26

#	ARTICLE	IF	CITATIONS
109	EXPERIMENTAL STUDY ON BUCKLING RESISTANCE TECHNIQUE OF STEEL MEMBERS STRENGTHENED USING FRP. International Journal of Structural Stability and Dynamics, 2012, 12, 153-178.	1.5	25
110	Axial performance of steel splice connection for tubular FRP column members. Composite Structures, 2018, 189, 498-509.	3.1	25
111	A fast random method for three-dimensional analysis of train-track-soil dynamic interaction. Soil Dynamics and Earthquake Engineering, 2018, 115, 252-262.	1.9	25
112	Axial compression behaviour of all-composite modular wall system. Composite Structures, 2021, 268, 113986.	3.1	25
113	Improved bond behavior between GFRP rebar and concrete using calcium sulfoaluminate. Construction and Building Materials, 2016, 113, 897-904.	3.2	24
114	Delamination and kink-band failure of pultruded GFRP laminates under elevated temperatures and compression. Composite Structures, 2011, 93, 843-849.	3.1	23
115	Improved bearing capacities of pultruded glass fibre reinforced polymer square hollow sections strengthened by thin-walled steel or CFRP. Thin-Walled Structures, 2015, 89, 67-75.	2.7	23
116	Effect of Elevated Temperatures on the Mechanical Performance of Pultruded FRP Joints with a Single Ordinary or Blind Bolt. Journal of Composites for Construction, 2016, 20, .	1.7	23
117	Flexural behavior of composite concrete slabs reinforced by FRP grid facesheets. Composites Part B: Engineering, 2016, 92, 46-62.	5.9	23
118	End Plate“Stiffener Connection for SHS Column and RHS Beam in Steel-Framed Building Modules. International Journal of Steel Structures, 2019, 19, 1353-1365.	0.6	23
119	Thermal performance of modular GFRP multicellular structures assembled with fire resistant panels. Composite Structures, 2017, 172, 22-33.	3.1	22
120	Non-Stationary Random Vibration Analysis of Railway Bridges Under Moving Heavy-Haul Trains. International Journal of Structural Stability and Dynamics, 2018, 18, 1850035.	1.5	22
121	Prefabricated connection for steel beam and concrete-filled steel tube column. Journal of Constructional Steel Research, 2019, 162, 105751.	1.7	22
122	Lateral stiffness evaluation on corner-supported thin walled modular steel structures. Thin-Walled Structures, 2020, 157, 106967.	2.7	22
123	A Novel Cast Aluminum Joint for Reticulated Shell Structures: Experimental Study and Modeling. Advances in Structural Engineering, 2013, 16, 1047-1059.	1.2	21
124	Characterization of frequency-dependent glass transition temperature by Vogel“Fulcher relationship. Journal Physics D: Applied Physics, 2008, 41, 152008.	1.3	20
125	Local buckling of steel equal angle members with normal and high strengths. International Journal of Steel Structures, 2014, 14, 447-455.	0.6	20
126	CHS X-joints strengthened by external stiffeners under brace axial tension. Engineering Structures, 2018, 171, 445-452.	2.6	20

#	ARTICLE	IF	CITATIONS
127	Effect of longitudinal reinforcement and prestressing on stiffness of composite beams under hogging moments. Journal of Constructional Steel Research, 2014, 100, 1-11.	1.7	19
128	Experimental and analytical studies of prestressed concrete girders with corrugated steel webs. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2505-2520.	1.3	19
129	Experimental and numerical investigations on the thermal response of multilayer glass fibre/unsaturated polyester/organoclay composite. Fire and Materials, 2016, 40, 1047-1069.	0.9	19
130	Continuous performance assessment of thin-film flexible photovoltaic cells under mechanical loading for building integration. Solar Energy, 2019, 183, 96-104.	2.9	19
131	Pultruded GFRP tubes with liquid-cooling system under combined temperature and compressive loading. Composite Structures, 2009, 90, 115-121.	3.1	18
132	Capacity of Screw Connections between Plasterboard Panels and Cold-Formed Steel for Modular Buildings. Journal of Architectural Engineering, 2018, 24, .	0.8	17
133	Bending Performance of Splice Connections for Assembly of Tubular Section FRP Members: Experimental and Numerical Study. Journal of Composites for Construction, 2019, 23, 04019040.	1.7	17
134	Effect of heating/cooling rates on the material properties of NiTi wires for civil structural applications. Construction and Building Materials, 2015, 101, 447-455.	3.2	16
135	Heating rate effect on the thermophysical properties of steel in fire. Journal of Constructional Steel Research, 2017, 128, 611-617.	1.7	16
136	Effect of widthâ€“thickness ratio on capacity of pultruded square hollow polymer columns. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2018, 171, 842-854.	0.4	16
137	Development of latticed structures with bolted steel sleeve and plate connection and hollow section GFRP members. Thin-Walled Structures, 2019, 137, 106-116.	2.7	16
138	Fire Performance of Water-Cooled GFRP Columns. II: Postfire Investigation. Journal of Composites for Construction, 2011, 15, 413-421.	1.7	15
139	Axial Compression Behaviours of Pultruded GFRPâ€“Wood Composite Columns. Sensors, 2019, 19, 755.	2.1	15
140	A real-time co-simulation solution for trainâ€“trackâ€“bridge interaction. JVC/Journal of Vibration and Control, 2021, 27, 1606-1616.	1.5	15
141	Stress Increment of Unbonded Prestressing Tendons in Prestressed Concrete Girders with Corrugated Steel Webs. Journal of Bridge Engineering, 2015, 20, .	1.4	14
142	Strength of external-ring-stiffened tubular X-joints subjected to brace axial compressive loading. Thin-Walled Structures, 2018, 133, 17-26.	2.7	14
143	Effect of bolt threads on the double lap joint strength of pultruded fibre reinforced polymer composite materials. Construction and Building Materials, 2018, 181, 185-198.	3.2	14
144	Aerodynamic Performance of an Adaptive GFRP Wind Barrier Structure for Railway Bridges. Materials, 2020, 13, 4214.	1.3	14

#	ARTICLE	IF	CITATIONS
145	Applications of the rotating orientation XRD method to oriented materials. Journal Physics D: Applied Physics, 2009, 42, 012001.	1.3	13
146	Mechanical performance of shear studs and application in steel-concrete composite beams. Journal of Central South University, 2016, 23, 2676-2687.	1.2	13
147	Tensile behaviour of innovative one-sided bolts in concrete-filled steel tubular connections. Journal of Constructional Steel Research, 2022, 191, 107165.	1.7	13
148	Structural Performance of FRP Composites in Fire. Advances in Structural Engineering, 2010, 13, 793-804.	1.2	12
149	Connection Performance in Steel-Concrete Composite Truss Bridge Structures. Journal of Bridge Engineering, 2017, 22, 04016126.	1.4	12
150	Kinetic modelling of thermophysical properties of shape memory alloys during phase transformation. Construction and Building Materials, 2017, 131, 146-155.	3.2	12
151	Displacement ductility of staged construction-steel tube-reinforced concrete columns. Construction and Building Materials, 2018, 188, 1137-1148.	3.2	12
152	Stress mitigation for adhesively bonded photovoltaics with fibre reinforced polymer composites in load carrying applications. Composites Part B: Engineering, 2019, 177, 107420.	5.9	12
153	Axial capacity of steel tube-reinforced concrete stub columns. Engineering Structures, 2019, 183, 523-532.	2.6	12
154	Full-field finite element model updating using Zernike moment descriptors for structures exhibiting localized mode shapes. Mechanical Systems and Signal Processing, 2019, 121, 373-388.	4.4	12
155	Structural Concept and Solution for Hybrid Modular Buildings with Removable Modules. Journal of Architectural Engineering, 2020, 26, .	0.8	12
156	Development of self-floating fibre reinforced polymer composite structures for photovoltaic energy harvesting. Composite Structures, 2020, 253, 112788.	3.1	12
157	Steel bolted flanged connections in tension: Effects of stiffener configurations. Thin-Walled Structures, 2020, 154, 106824.	2.7	12
158	Acceleration responses of building modules during road transportation. Engineering Structures, 2020, 210, 110398.	2.6	12
159	Bonded CFRP/Steel Systems, Remedies of Bond Degradation and Behaviour of CFRP Repaired Steel: An Overview. Polymers, 2021, 13, 1533.	2.0	12
160	Mechanical and durability properties of epoxy mortar incorporating coal bottom ash as filler. Construction and Building Materials, 2022, 315, 125677.	3.2	11
161	Epoxy Enhanced by Recycled Milled Carbon Fibres in Adhesively-Bonded CFRP for Structural Strengthening. Polymers, 2014, 6, 76-92.	2.0	10
162	Mechanical performance of fibre reinforced polymer confined softwood timber for pole applications. Composite Structures, 2020, 235, 111807.	3.1	10

#	ARTICLE	IF	CITATIONS
163	Mechanical performance of building modules during road transportation. Engineering Structures, 2020, 223, 111185.	2.6	10
164	Cyclic performance of splice connections for hollow section fibre reinforced polymer members. Composite Structures, 2020, 243, 112222.	3.1	10
165	Shear capacity of 3D composite CFT joints subjected to symmetric loading condition. Journal of Constructional Steel Research, 2015, 112, 242-251.	1.7	9
166	Improved fire resistance of cold-formed steel walls by using super absorbent polymers. Thin-Walled Structures, 2021, 160, 107355.	2.7	9
167	Cyclic behaviour of prefabricated connections for steel beam to concrete filled steel tube column. Journal of Constructional Steel Research, 2021, 176, 106422.	1.7	9
168	Bending and Shear Behaviour of Waste Rubber Concrete-Filled FRP Tubes with External Flanges. Polymers, 2021, 13, 2500.	2.0	9
169	Intermodal transportation of modular structure units. World Review of Intermodal Transportation Research, 2018, 7, 99.	0.2	8
170	Reliability-based design optimisation of structural systems using high-order analytical moments. Structural Safety, 2020, 86, 101970.	2.8	8
171	Shear behaviour of hollow precast concrete-composite structures. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	8
172	Thermal and mechanical evaluation on integration of GFRP and thin-film flexible PV cells for building applications. Journal of Cleaner Production, 2021, 289, 125809.	4.6	8
173	Full-scale corner-supported modular steel structures with vertical inter-module connections under cyclic loading. Journal of Building Engineering, 2021, 44, 103269.	1.6	8
174	Damage evaluation of single-layer cable net façade. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, 168, 159-173.	0.4	7
175	Fire performance of loaded fibre reinforced polymer multicellular composite structures with fire-resistant panels. Construction and Building Materials, 2021, 296, 123733.	3.2	7
176	Joint Strength of Single-Bolted Pultruded GFRP Square Hollow Sections with Mechanical Inserts under Elevated Temperatures. Journal of Composites for Construction, 2020, 24, .	1.7	6
177	A framework combining pseudo-excitation method and two-and-a-half-dimensional finite element method for random ground vibrations induced by high-speed trains. Advances in Structural Engineering, 2020, 23, 3263-3277.	1.2	6
178	Comparative study on mechanical performance of bolted joints with steel and fibre reinforced polymer bolts. Journal of Building Engineering, 2021, 41, 102457.	1.6	6
179	Comparative study of energy dissipation capacity of steel and glass fibre-reinforced polymer frames with bonded sleeve connections. Journal of Reinforced Plastics and Composites, 2017, 36, 1665-1679.	1.6	5
180	Ultimate limit design of composite beams with modular GFRP deck and steel girder. Engineering Structures, 2018, 176, 337-348.	2.6	5

#	ARTICLE	IF	CITATIONS
181	In-Plane Bending of Laminated Glass Fin Strengthened through External Bonding. Advances in Structural Engineering, 2012, 15, 55-64.	1.2	4
182	Discussion: Effect of strain rate on splitting tensile strength of geopolymer concrete. Magazine of Concrete Research, 2015, 67, 906-907.	0.9	4
183	Self-Luminous Fiber-Reinforced Polymer Composites for Structural Applications. Journal of Materials in Civil Engineering, 2015, 27, 04014120.	1.3	4
184	Load-Dependent Composite Action for Beam Nonlinear and Ductile Behavior. Journal of Structural Engineering, 2020, 146, .	1.7	4
185	Geometric forming and mechanical performance of reciprocal frame structures assembled using fibre reinforced composites. Engineering Structures, 2022, 250, 113420.	2.6	4
186	An efficient hybrid method for dynamic interaction of trainâ€“trackâ€“bridge coupled system. Canadian Journal of Civil Engineering, 2020, 47, 1084-1093.	0.7	3
187	Influence of board joint configurations on the fire performance of CFS walls. Journal of Constructional Steel Research, 2021, 179, 106553.	1.7	3
188	Thermal and mechanical performances of GFRP sandwich structures with integrated amorphous silicon photovoltaic cells. Composite Structures, 2022, 290, 115524.	3.1	3
189	Temperature Effect on Adhesively Bonded CFRP and Steel Double Strap Joints. , 2011, , 877-880.		2
190	Construction Industry Transformation Through Modular Methods. , 2022, , 259-276.		2
191	Evaluation of Bonding between High Modulus CFRP Sheet and Steel after Environmental Exposure and Fatigue Loading. Advanced Materials Research, 0, 891-892, 143-148.	0.3	0
192	FRP Strengthening of Structures Subject to Fatigue, Impact and Environmental Loading. Advances in Structural Engineering, 2014, 17, i-i.	1.2	0
193	Fire Performance of Water-Cooled Cellular GFRP Columns. , 2011, , 405-409.		0
194	Static and dynamic performance of an orthotropic-deck pultruded fibre-reinforced polymer footbridge. IABSE Symposium Report, 2017, , .	0.0	0