# Peng Feng

List of Publications by Year
in descending order

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|---|---|---|---|
| 119 papers | 3,484 citations | 126907 33 h-index | 155660 55 g-index |
| 125 all docs | 125 docs citations | 125 times ranked | 1730 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mechanical behavior of concrete-filled square steel tube with FRP-confined concrete core subjected to axial compression. Composite Structures, 2015, 123, 312-324. | 5.8 | 275 |
| 2 | Mechanical properties of structures 3D printed with cementitious powders. Construction and Building Materials, 2015, 93, 486-497. | 7.2 | 260 |
| 3 | A comprehensive review on mechanical properties of pultruded FRP composites subjected to long-term environmental effects. Composites Part B: Engineering, 2020, 191, 107958. | 12.0 | 197 |
| 4 | Axial compressive behavior of seawater coral aggregate concrete-filled FRP tubes. Construction and Building Materials, 2017, 147, 272-285. | 7.2 | 135 |
| 5 | State-of-the-art review on the bond properties of corroded reinforcing steel bar. Construction and Building Materials, 2019, 213, 216-233. | 7.2 | 121 |
| 6 | Effects of corrosive environments on properties of pultruded GFRP plates. Composites Part B: Engineering, 2014, 67, 427-433. | 12.0 | 100 |
| 7 | Analytical model for the bond stress-slip relationship of deformed bars in normal strength concrete. Construction and Building Materials, 2019, 198, 570-586. | 7.2 | 91 |
| 8 | Constitutive relations of coral aggregate concrete under uniaxial and triaxial compression. Construction and Building Materials, 2020, 251, 118957. | 7.2 | 81 |
| 9 | Experimental study on seismic strengthening of RC columns with wrapped CFRP sheets. Construction and Building Materials, 2003, 17, 499-506. | 7.2 | 72 |
| 10 | Effects of the corrosion of main bar and stirrups on the bond behavior of reinforcing steel bar. Construction and Building Materials, 2019, 225, 13-28. | 7.2 | 68 |
| 11 | A comprehensive overview of fibre-reinforced gypsum-based composites (FRGCs) in the construction field. Composites Part B: Engineering, 2021, 205, 108540. | 12.0 | 65 |
| 12 | Strengthening of steel members in compression by mortar-filled FRP tubes. Thin-Walled Structures, 2013, 64, 1-12. | 5.3 | 64 |
| 13 | A review on FRP-concrete hybrid sections for bridge applications. Composite Structures, 2021, 262, 113336. | 5.8 | 64 |
| 14 | Study on thermal effects on fatigue behavior of cracked steel plates strengthened by CFRP sheets. Thin-Walled Structures, 2014, 82, 311-320. | 5.3 | 58 |
| 15 | Bond behavior of basalt textile meshes in ultra-high ductility cementitious composites. Composites Part B: Engineering, 2019, 174, 107022. | 12.0 | 54 |
| 16 | Recyclable LRS FRP composites for engineering structures: Current status and future opportunities. Composites Part B: Engineering, 2021, 212, 108689. | 12.0 | 54 |
| 17 | Perforated FRP ribs for shear connecting of FRP-concrete hybrid beams/decks. Composite Structures, 2016, 152, 267-276. | 5.8 | 50 |
| 18 | Comparative Study on Static and Fatigue Performances of Pultruded GFRP Joints Using Ordinary and Blind Bolts. Journal of Composites for Construction, 2015, 19, . | 3.2 | 47 |

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|---|---|---|---|
| 19 | Fatigue design of CFRP strengthened steel members. Thin-Walled Structures, 2017, 119, 482-498. | 5.3 | 46 |
| 20 | Analysis-oriented models for FRP-confined concrete: 3D interpretation and general methodology. Engineering Structures, 2020, 216, 110749. | 5.3 | 46 |
| 21 | Fatigue Behavior of Cracked High-Strength Steel Plates Strengthened by CFRP Sheets. Journal of Composites for Construction, 2016, 20, . | 3.2 | 45 |
| 22 | Mechanical behavior of FRP sheets reinforced 3D elements printed with cementitious materials. Composite Structures, 2015, 134, 331-342. | 5.8 | 43 |
| 23 | Combination of Bamboo Filling and FRP Wrapping to Strengthen Steel Members in Compression. Journal of Composites for Construction, 2013, 17, 347-356. | 3.2 | 42 |
| 24 | Compressive bearing capacity of CFRPâ€“aluminum alloy hybrid tubes. Composite Structures, 2016, 140, 749-757. | 5.8 | 40 |
| 25 | A novel kinked rebar configuration for simultaneously improving the seismic performance and progressive collapse resistance of RC frame structures. Engineering Structures, 2017, 147, 752-767. | 5.3 | 40 |
| 26 | FRP stay-in-place form and shear key connection for FRP-concrete hybrid beams/decks. Composite Structures, 2018, 192, 489-499. | 5.8 | 40 |
| 27 | Axial compressive behavior of engineered cementitious composite confined by fiber-reinforced polymer. Composite Structures, 2020, 243, 112191. | 5.8 | 40 |
| 28 | Advances in coral aggregate concrete and its combination with FRP: A state-of-the-art review. Advances in Structural Engineering, 2021, 24, 1161-1181. | 2.4 | 39 |
| 29 | Load-Strain Model for Steel-Concrete-FRP-Concrete Columns in Axial Compression. Journal of Composites for Construction, 2016, 20, . | 3.2 | 38 |
| 30 | Study of GFRP Steel Buckling Restraint Braces. Journal of Composites for Construction, 2015, 19, 04015009. | 3.2 | 37 |
| 31 | Joint capacity of bonded sleeve connections for tubular fibre reinforced polymer members. Composite Structures, 2017, 163, 267-279. | 5.8 | 35 |
| 32 | Seismic Performance of Hybrid Columns of Concrete-Filled Square Steel Tube with FRP-Confined Concrete Core. Journal of Composites for Construction, 2018, 22, . | 3.2 | 34 |
| 33 | Mechanical Analysis of Stress Distribution in a Carbon Fiber-Reinforced Polymer Rod Bonding Anchor. Polymers, 2014, 6, 1129-1143. | 4.5 | 33 |
| 34 | Novel self-anchored CFRP cable system: Concept and anchorage behavior. Composite Structures, 2021, 263, 113736. | 5.8 | 33 |
| 35 | Mechanical Behavior and Design of FRP Structural Members at High and Low Service Temperatures. Journal of Composites for Construction, 2016, 20, . | 3.2 | 32 |
| 36 | Composite actions within steel-FRP composite beam systems with novel blind bolt shear connections. Engineering Structures, 2017, 138, 63-73. | 5.3 | 32 |

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| 37 | Buckling behavior of CFRP-aluminum alloy hybrid tubes in axial compression. Engineering Structures, 2017, 132, 624-636. | 5.3 | 32 |
| 38 | Use of 3D laser scanning on evaluating reduction of initial geometric imperfection of steel column with pre-stressed CFRP. Engineering Structures, 2019, 198, 109527. | 5.3 | 32 |
| 39 | Bolted Shear Connection of FRP-Concrete Hybrid Beams. Journal of Composites for Construction, 2018, 22, . | 3.2 | 31 |
| 40 | Progressive Collapse Resistance of GFRP-Strengthened RC Beamâ€“Slab Subassemblages in a Corner Columnâ€“Removal Scenario. Journal of Composites for Construction, 2019, 23, . | 3.2 | 31 |
| 41 | Debonding development in cracked steel plates strengthened by CFRP laminates under fatigue loading: Experimental and boundary element method analysis. Thin-Walled Structures, 2021, 166, 108038. | 5.3 | 30 |
| 42 | Effect of FRP-to-steel bonded joint configuration on interfacial stresses: Finite element investigation. Thin-Walled Structures, 2013, 62, 215-228. | 5.3 | 29 |
| 43 | Analysis-oriented model for FRP confined high-strength concrete: 3D interpretation of path dependency. Composite Structures, 2021, 278, 114695. | 5.8 | 29 |
| 44 | Buckling behavior analysis of prestressed CFRP-reinforced steel columns via FEM and ANN. Engineering Structures, 2021, 245, 112853. | 5.3 | 27 |
| 45 | Experimental and analytical studies on shear behaviors of FRP-concrete composite sections. Engineering Structures, 2020, 215, 110649. | 5.3 | 27 |
| 46 | Long-term performance prediction framework based on XGBoost decision tree for pultruded FRP composites exposed to water, humidity and alkaline solution. Composite Structures, 2022, 284, 115184. | 5.8 | 27 |
| 47 | Kinked rebar configurations for improving the progressive collapse behaviours of RC frames under middle column removal scenarios. Engineering Structures, 2020, 211, 110425. | 5.3 | 26 |
| 48 | Developing an innovative curved-pultruded large-scale GFRP arch beam. Composite Structures, 2021, 256, 113111. | 5.8 | 26 |
| 49 | Large-Span Woven Web Structure Made of Fiber-Reinforced Polymer. Journal of Composites for Construction, 2007, 11, 110-119. | 3.2 | 25 |
| 50 | EXPERIMENTAL STUDY ON BUCKLING RESISTANCE TECHNIQUE OF STEEL MEMBERS STRENGTHENED USING FRP. International Journal of Structural Stability and Dynamics, 2012, 12, 153-178. | 2.4 | 25 |
| 51 | Steel columns strengthened/reinforced by prestressed CFRP strips: Concepts and behaviors under axial compressive loads. Composite Structures, 2019, 217, 150-164. | 5.8 | 25 |
| 52 | Bilinear softening model and double K fracture criterion for quasi-brittle fracture of pultruded FRP composites. Composite Structures, 2017, 160, 1119-1125. | 5.8 | 24 |
| 53 | Prestressed CFRP-reinforced steel columns under axial and eccentric compression. Composite Structures, 2021, 268, 113940. | 5.8 | 24 |
| 54 | The Gift from Nature: Bio-Inspired Strategy for Developing Innovative Bridges. Journal of Bionic Engineering, 2013, 10, 405-414. | 5.0 | 23 |

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| 55 | FRP-confined concrete core-encased rebar for RC columns: Concept and axial compressive behavior. Composite Structures, 2019, 222, 110915. | 5.8 | 22 |
| 56 | Flexural behavior of novel hybrid multicell GFRP-concrete beam. Composite Structures, 2020, 250, 112606. | 5.8 | 22 |
| 57 | Determining rotational stiffness of flange-web junction of pultruded GFRP I-sections. Composite Structures, 2020, 236, 111843. | 5.8 | 20 |
| 58 | Steel slag aggregate concrete filled-in FRP tubes: Volume expansion effect and axial compressive behaviour. Construction and Building Materials, 2022, 318, 125961. | 7.2 | 19 |
| 59 | Compressive behavior of concrete-filled steel tubular columns with internal high-strength steel spiral confinement. Advances in Structural Engineering, 2021, 24, 1687-1708. | 2.4 | 17 |
| 60 | Non-uniform fiber-resin distributions of pultruded GFRP profiles. Composites Part B: Engineering, 2022, 231, 109543. | 12.0 | 17 |
| 61 | Buckling of piecewise member composed of steel and high-strength materials in axial compression. Thin-Walled Structures, 2017, 110, 62-74. | 5.3 | 16 |
| 62 | Experimental Study of FRP-Reinforced Slotted RC Shear Walls under Cyclic Loading. Journal of Composites for Construction, 2018, 22, . | 3.2 | 15 |
| 63 | Seismic performance of composite shear walls with embedded FCCCs in boundary elements. Composite Structures, 2021, 257, 113126. | 5.8 | 15 |
| 64 | An ultra-lightweight CFRP beam-string structure. Composite Structures, 2021, 257, 113149. | 5.8 | 14 |
| 65 | Column base joint made with ultrahigh-strength steel bars and steel tubular: An experimental study. Engineering Structures, 2021, 228, 111483. | 5.3 | 14 |
| 66 | Structural art: Past, present and future. Engineering Structures, 2014, 79, 407-416. | 5.3 | 13 |
| 67 | Behavior analysis of FRP tube/filling strengthened steel members under axial compression. Thin-Walled Structures, 2019, 134, 475-490. | 5.3 | 12 |
| 68 | Fire behavior and design of steel columns reinforced by prestressed CFRP strips. Composite Structures, 2021, 275, 114516. | 5.8 | 12 |
| 69 | Vibration Serviceability Assessment of Pedestrian Bridges Based on Comfort Level. Journal of Performance of Constructed Facilities, 2019, 33, . | 2.0 | 11 |
| 70 | Seismic responses of postyield hardening singleâ€“degreeâ€ofâ€freedom systems incorporating highâ€strength elastic material. Earthquake Engineering and Structural Dynamics, 2019, 48, 611-633. | 4.4 | 11 |
| 71 | Axial Compressive Behavior of Square-Section Concrete Columns Transversely Reinforced with FRP Grids. Journal of Composites for Construction, 2020, 24, . | 3.2 | 11 |
| 72 | Enhancing flange local buckling strength of pultruded GFRP open-section beams. Composite Structures, 2020, 244, 112313. | 5.8 | 11 |

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| 73 | Pressure-dependent bond stress-slip model for sand-coated FRP-concrete interface. Composite Structures, 2021, 263, 113719. | 5.8 | 11 |
| 74 | Novel joint for pultruded FRP beams and concrete-filled FRP columns: Conceptual and experimental investigations. Composite Structures, 2022, 287, 115339. | 5.8 | 11 |
| 75 | Flexural behavior of light steel purlins reinforced by prestressed CFRP laminates. Thin-Walled Structures, 2022, 174, 109125. | 5.3 | 11 |
| 76 | Epoxy Enhanced by Recycled Milled Carbon Fibres in Adhesively-Bonded CFRP for Structural Strengthening. Polymers, 2014, 6, 76-92. | 4.5 | 10 |
| 77 | Axial compression behavior of pultruded GFRP channel sections. Composite Structures, 2022, 289, 115438. | 5.8 | 10 |
| 78 | Fatigue damage propagation models for ductile fracture of ultrahigh toughness cementitious composites. International Journal of Damage Mechanics, 2017, 26, 919-932. | 4.2 | 9 |
| 79 | Strengthening single-bolt timber joints with externally bonded CFRP composites. Structures, 2020, 28, 2671-2685. | 3.6 | 8 |
| 80 | Experimental study on GFRP pipes under axial compression. Frontiers of Architecture and Civil Engineering in China, 2008, 2, 73-78. | 0.4 | 7 |
| 81 | Cyclic loading behaviors of novel RC beams with kinked rebar configuration. Engineering Structures, 2019, 200, 109689. | 5.3 | 7 |
| 82 | Long-term behavior of CFRP plates under sustained loads. Advances in Structural Engineering, 2022, 25, 939-953. | 2.4 | 7 |
| 83 | Mechanical behavior of cylindrical GFRP chimney liners subjected to axial tension. Composites Part B: Engineering, 2019, 177, 107411. | 12.0 | 6 |
| 84 | Modelling of hysteresis behaviour of moment-resisting timber joints strengthened with FRP composites. International Journal of Mechanical Sciences, 2020, 179, 105593. | 6.7 | 6 |
| 85 | Theoretical Analysis and Design of Prestressed CFRP-Reinforced Steel Columns. Journal of Composites for Construction, 2022, 26, . | 3.2 | 6 |
| 86 | Using CFRP to Repair the Steel Pipe with Fatigue Cracks. Advanced Materials Research, 2010, 146-147, 1086-1089. | 0.3 | 5 |
| 87 | Quasi-plastic flexural behavior of adhesive-bolt hybrid connection for large scale pultruded GFRP frame. Engineering Structures, 2021, 238, 112200. | 5.3 | 5 |
| 88 | A comprehensive study on CFRP rapid portable bridge: Design, experimental investigation and finite element analysis. Composite Structures, 2022, 289, 115439. | 5.8 | 5 |
| 89 | Self-Luminous Fiber-Reinforced Polymer Composites for Structural Applications. Journal of Materials in Civil Engineering, 2015, 27, 04014120. | 2.9 | 4 |
| 90 | Group effect of GFRP-timber bolted connections in tension. Composite Structures, 2021, 262, 113637. | 5.8 | 4 |

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| 91 | Bio-inspired Bridge Design. , 2015, , 235-254. | | 3 |
| 92 | Friction measurement and correction method in quasi-static tests of columns under combined axial and cyclic lateral loading. Advances in Structural Engineering, 2019, 22, 2672-2686. | 2.4 | 2 |
| 93 | Mechanical Properties of Structures 3D-Printed With Cementitious Powders. , 2019, , 181-209. | | 2 |
| 94 | Compression behavior of large-scaled cylindrical GFRP chimney liner segments. Composite Structures, 2020, 232, 111543. | 5.8 | 2 |
| 95 | FRP Confined Concrete: What, Why, and How?. Lecture Notes in Civil Engineering, 2022, , 37-45. | 0.4 | 2 |
| 96 | A Large-Span Woven Web Suspension Roof System Made of High-Strength FRP. , 2004, , 426. | | 1 |
| 97 | Experimental Research on Flexural Behavior of FRP-Reinforced Concrete Beams. Advanced Materials Research, 0, 250-253, 1478-1482. | 0.3 | 1 |
| 98 | Test on Hybrid Connection for Steel Bars in Concrete. Applied Mechanics and Materials, 2012, 166-169, 215-218. | 0.2 | 1 |
| 99 | Erratum for â€œFatigue Behavior of Cracked High-Strength Steel Plates Strengthened by CFRP Sheetsâ€•by Li Li Hu, Xiao Ling Zhao, and Peng Feng. Journal of Composites for Construction, 2018, 22, . | 3.2 | 1 |
| 100 | Exploiting spatial heterogeneity and response characterization in non-uniform architected materials inspired by slime mould growth. Bioinspiration and Biomimetics, 2019, 14, 064001. | 2.9 | 1 |
| 101 | Experimental Study on Uniaxial Compression of Bamboo Nodes Using 3D Scanning Technique. MATEC Web of Conferences, 2019, 275, 01022. | 0.2 | 1 |
| 102 | Experimental Study on Uniaxial Compression of Bamboo Poles with Different Reinforcements. MATEC Web of Conferences, 2019, 275, 01023. | 0.2 | 1 |
| 103 | Crack propagation and debonding development of CFRP laminate strengthened high-strength steel plates under fatigue loadings. IOP Conference Series: Materials Science and Engineering, 2020, 768, 032047. | 0.6 | 1 |
| 104 | Experimental and theoretical analyses of the progressive collapse resistance of NSM strengthening RC frames after the failure of a corner column. Journal of Building Engineering, 2022, 47, 103805. | 3.4 | 1 |
| 105 | Effect of Vacuum Environment on Micro Morphology and Porosity of Lunar Soil Concrete. Journal of Physics: Conference Series, 2022, 2160, 012023. | 0.4 | 1 |
| 106 | Experimental study on loading-induced power generation decline of component-level flexible solar cells. Thin-Walled Structures, 2022, 175, 109231. | 5.3 | 1 |
| 107 | Finite Element Analysis of Mechanical Behavior of Light-Weight Mobile FRP Bridge. Advanced Materials Research, 0, 163-167, 1995-1998. | 0.3 | 0 |
| 108 | Experimental Investigation on Shear Behavior Of GFRP-Concrete Hybrid Beams. Advanced Materials Research, 0, 163-167, 3433-3439. | 0.3 | 0 |

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| 109 | Study on Improvement for Seismic Behavior of Reinforced Concrete Shear Walls. Advanced Materials Research, 0, 368-373, 1396-1401. | 0.3 | 0 |
| 110 | The Linear Optimization Based on Static Analysis of Lightweight FRP Mobile Bridge. , 2011, , . | | 0 |
| 111 | Progressive Collapse Resistance of GFRP Strengthened RC Substructures under a Column-Removal Scenario. , 2018, , . | | 0 |
| 112 | Fatigue life of CFRP laminate strengthened high-strength steel plates under fatigue loadings. IOP Conference Series: Materials Science and Engineering, 2020, 768, 032040. | 0.6 | 0 |
| 113 | Closure to â€œBolted Shear Connection of FRP-Concrete Hybrid Beamsâ€•by Xingxing Zou, Peng Feng, and Jingquan Wang. Journal of Composites for Construction, 2020, 24, 07020004. | 3.2 | 0 |
| 114 | Durability evaluation of pultruded GFRP bay window structures. Composite Structures, 2021, 277, 114612. | 5.8 | 0 |
| 115 | Experimental Study of GFRP-Concrete Hybrid Beams. , 2011, , 202-206. | | 0 |
| 116 | Mechanical Model and Analysis of FRP Woven Web Structures. , 2011, , 160-163. | | 0 |
| 117 | GFRP-Concrete Hybrid Beams Under Flexural Loading: Experimental Investigation. Advanced Science Letters, 2011, 4, 1598-1601. | 0.2 | 0 |
| 118 | Experimental Study on Mechanical Properties of Bamboo Culms and Joints Reinforced with GFRP Sheets. Lecture Notes in Civil Engineering, 2022, , 1601-1613. | 0.4 | 0 |
| 119 | Study on Buckling Behavior of Prestressed CFRP-Reinforced Steel Columns by FEM and ANN. Lecture Notes in Civil Engineering, 2022, , 2322-2332. | 0.4 | 0 |