

Hong Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,260
citations

279798

23
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361022

35
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41
all docs

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docs citations

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times ranked

524
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Durability test on the flexural performance of seawater sea-sand concrete beams completely reinforced with FRP bars. <i>Construction and Building Materials</i> , 2018, 192, 671-682. | 7.2 | 129 |
| 2 | Bond Behavior between Basalt Fiberâ€“Reinforced Polymer Sheet and Concrete Substrate under the Coupled Effects of Freeze-Thaw Cycling and Sustained Load. <i>Journal of Composites for Construction</i> , 2013, 17, 530-542. | 3.2 | 106 |
| 3 | Shrinkage mechanisms and shrinkage-mitigating strategies of alkali-activated slag composites: A critical review. <i>Construction and Building Materials</i> , 2022, 318, 125993. | 7.2 | 84 |
| 4 | Bond durability of steel-FRP composite bars embedded in seawater sea-sand concrete under constant bending and shearing stress. <i>Construction and Building Materials</i> , 2018, 192, 808-817. | 7.2 | 69 |
| 5 | Health Monitoring of Rehabilitated Concrete Bridges Using Distributed Optical Fiber Sensing. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2006, 21, 411-424. | 9.8 | 53 |
| 6 | Performance evaluation and microstructure characterization of seawater and coral/sea sand alkali-activated mortars. <i>Construction and Building Materials</i> , 2020, 259, 120403. | 7.2 | 53 |
| 7 | Flexural behavior of seawater sea-sand coral concreteâ€“UHPC composite beams reinforced with BFRP bars. <i>Construction and Building Materials</i> , 2020, 265, 120279. | 7.2 | 51 |
| 8 | Mechanical properties of discrete BFRP needles reinforced seawater sea-sand concrete-filled GFRP tubular stub columns. <i>Construction and Building Materials</i> , 2020, 244, 118330. | 7.2 | 51 |
| 9 | Optimization of mix proportion of alkali-activated slag mortars prepared with seawater and coral sand. <i>Construction and Building Materials</i> , 2021, 284, 122805. | 7.2 | 47 |
| 10 | Compressive stress-strain behavior of seawater coral aggregate concrete incorporating eco-efficient alkali-activated slag materials. <i>Construction and Building Materials</i> , 2021, 299, 123886. | 7.2 | 47 |
| 11 | Evaluation of bond performance of corroded steel bars in concrete after high temperature exposure. <i>Engineering Structures</i> , 2019, 198, 109479. | 5.3 | 45 |
| 12 | Experimental study on the enhancement of additional ribs to the bond performance of FRP bars in concrete. <i>Construction and Building Materials</i> , 2018, 185, 545-554. | 7.2 | 44 |
| 13 | Feasibility of using geopolymers to investigate the bond behavior of FRP bars in seawater sea-sand concrete. <i>Construction and Building Materials</i> , 2021, 282, 122636. | 7.2 | 39 |
| 14 | Enhancement of Bond Performance of FRP Bars with Seawater Coral Aggregate Concrete by Utilizing Ecoefficient Slag-Based Alkali-Activated Materials. <i>Journal of Composites for Construction</i> , 2022, 26, . | 3.2 | 39 |
| 15 | Improvement of bond performance between concrete and CFRP bars with optimized additional aluminum ribs anchorage. <i>Construction and Building Materials</i> , 2020, 241, 118012. | 7.2 | 36 |
| 16 | Anchorage systems for reinforced concrete structures strengthened with fiber-reinforced polymer composites: State-of-the-art review. <i>Journal of Reinforced Plastics and Composites</i> , 2020, 39, 327-344. | 3.1 | 35 |
| 17 | Bond performance of NSM FRP bars in concrete with an innovative additional ribs anchorage system: An experimental study. <i>Construction and Building Materials</i> , 2019, 207, 572-584. | 7.2 | 28 |
| 18 | Flexural behavior of seawater sea-sand concrete beams reinforced with BFRP bars/grids and BFRP-wrapped steel tubes. <i>Composite Structures</i> , 2021, 268, 113956. | 5.8 | 27 |

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|----|---|-----|-----------|
| 19 | A review on shrinkage-reducing methods and mechanisms of alkali-activated/geopolymer systems: Effects of chemical additives. <i>Journal of Building Engineering</i> , 2022, 49, 104056. | 3.4 | 27 |
| 20 | Digital image correlation measurement of the bond-slip relationship between fiber-reinforced polymer sheets and concrete substrate. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1590-1603. | 3.1 | 26 |
| 21 | Fracture properties of slag-based alkali-activated seawater coral aggregate concrete. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 115, 103071. | 4.7 | 26 |
| 22 | A review of the research and application progress of new types of concrete-filled FRP tubular members. <i>Construction and Building Materials</i> , 2021, 312, 125353. | 7.2 | 24 |
| 23 | The durability of seawater sea-sand concrete beams reinforced with metal bars or non-metal bars in the ocean environment. <i>Advances in Structural Engineering</i> , 2020, 23, 334-347. | 2.4 | 23 |
| 24 | Bond-slip behaviour of the CFRP ribbed bars anchored with the innovative additional ribs in concrete. <i>Composite Structures</i> , 2021, 262, 113595. | 5.8 | 19 |
| 25 | Bond enhancement for NSM FRP bars in concrete using different anchorage systems. <i>Construction and Building Materials</i> , 2020, 246, 118316. | 7.2 | 17 |
| 26 | Influence of specimen dimensions and reinforcement corrosion on bond performance of steel bars in concrete. <i>Advances in Structural Engineering</i> , 2020, 23, 1759-1771. | 2.4 | 14 |
| 27 | Design and properties of seawater coral aggregate alkali-activated concrete. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 187-201. | 3.1 | 14 |
| 28 | Mechanical properties and drying shrinkage of alkali-activated seawater coral aggregate concrete. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 408-417. | 3.1 | 12 |
| 29 | Shear Capacity Comparison of Four Different Composite Interfaces between FRP Plates and Concrete Substrate. <i>Journal of Composites for Construction</i> , 2016, 20, . | 3.2 | 11 |
| 30 | Innovative additional aluminum alloy ribs anchorage for improving the bond reliability of pretensioned CFRP bar: A feasibility study. <i>Composite Structures</i> , 2022, 280, 114817. | 5.8 | 10 |
| 31 | Experimental Evaluation of Bent FRP Tendons for Strengthening by External Prestressing. <i>Journal of Composites for Construction</i> , 2017, 21, . | 3.2 | 9 |
| 32 | Bond and flexural performance of basalt fiber-reinforced polymer bar-reinforced seawater sea sand glass aggregate concrete beams. <i>Advances in Structural Engineering</i> , 2021, 24, 3359-3374. | 2.4 | 7 |
| 33 | Sensing Properties of Fused Silica Single-Mode Optical Fibers Based on PPP-BOTDA in High-Temperature Fields. <i>Sensors</i> , 2019, 19, 5021. | 3.8 | 6 |
| 34 | Fire Resistance of Strengthened RC Members Using NSM CFRP Bars with a Cladding Layer. <i>Journal of Composites for Construction</i> , 2019, 23, . | 3.2 | 6 |
| 35 | Fatigue performance of CFRP reinforced pretensioned prestressed beams. <i>Construction and Building Materials</i> , 2022, 324, 126509. | 7.2 | 6 |
| 36 | Short- and long-term performance of the novel additional aluminum alloy ribs anchored CFRP reinforced pretensioned PC beams. <i>Engineering Structures</i> , 2022, 266, 114539. | 5.3 | 6 |

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|----|---|-----|-----------|
| 37 | Exploratory study on the short- and long-term bond between ribbed CFRP bars and additional aluminum alloy ribs anchorage. Construction and Building Materials, 2022, 325, 126528. | 7.2 | 5 |
| 38 | Bond enhancement for BFRP bar in concrete by using a resin-filled FRP tube anchorage. Structures, 2022, 39, 1107-1117. | 3.6 | 4 |
| 39 | Identification of the bond between ribbed CFRP bars and novel ARs anchorage. Construction and Building Materials, 2022, 327, 126811. | 7.2 | 3 |
| 40 | Mechanism and control of the long-term performance evolution of structures. Frontiers of Structural and Civil Engineering, 2020, 14, 1039-1048. | 2.9 | 2 |
| 41 | Study on mechanical properties of seawater sea-sand coral aggregate concrete-filled BFRP tubular arches. Advances in Structural Engineering, 0, , 136943322210805. | 2.4 | 0 |