

# Zhishen Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,148  
citations

361045

20  
h-index

414034

32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Durability of basalt fibers and composites in corrosive environments. <i>Journal of Composite Materials</i> , 2015, 49, 873-887.	1.2	148
2	Fatigue behavior and failure mechanism of basalt FRP composites under long-term cyclic loads. <i>International Journal of Fatigue</i> , 2016, 88, 58-67.	2.8	79
3	Energy Damage Detection Strategy Based on Strain Responses for Long-Span Bridge Structures. <i>Journal of Bridge Engineering</i> , 2011, 16, 644-652.	1.4	52
4	Degradation of basalt FRP bars in alkaline environment. <i>Science and Engineering of Composite Materials</i> , 2015, 22, 649-657.	0.6	45
5	A Novel Anchor Method for Multitendon FRP Cable: Manufacturing and Experimental Study. <i>Journal of Composites for Construction</i> , 2015, 19, .	1.7	42
6	Fatigue Behavior of Basalt Fiber-Reinforced Polymer Tendons for Prestressing Applications. <i>Journal of Composites for Construction</i> , 2016, 20, .	1.7	39
7	Multimode Interference in Single Mode“Multimode FBG for Simultaneous Measurement of Strain and Bending. <i>IEEE Sensors Journal</i> , 2015, 15, 3390-3394.	2.4	37
8	Interlaminar shear behavior of basalt FRP and hybrid FRP laminates. <i>Journal of Composite Materials</i> , 2016, 50, 1073-1084.	1.2	36
9	Distributed Long-Gauge Optical Fiber Sensors Based Self-Sensing FRP Bar for Concrete Structure. <i>Sensors</i> , 2016, 16, 286.	2.1	34
10	Temperature effect on fatigue behavior of basalt fiber-reinforced polymer composites. <i>Polymer Composites</i> , 2019, 40, 2273-2283.	2.3	32
11	Failure Mechanism of Deformed Concrete Tunnels Subject to Diagonally Concentrated Loads. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2009, 24, 416-431.	6.3	29
12	Investigation on the damage identification of bridges using distributed long-gauge dynamic macrostrain response under ambient excitation. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 85-103.	1.4	28
13	Study of high tensile strength of natural continuous basalt fibers. <i>Journal of Natural Fibers</i> , 2020, 17, 214-222.	1.7	28
14	Effect of stress ratios on tension-tension fatigue behavior and micro-damage evolution of basalt fiber-reinforced epoxy polymer composites. <i>Journal of Materials Science</i> , 2018, 53, 9545-9556.	1.7	27
15	Study on Mechanical Properties of Basalt Fibers Superior to E-glass Fibers. <i>Journal of Natural Fibers</i> , 2022, 19, 882-894.	1.7	27
16	Optimum wavelet selection for nonparametric analysis toward structural health monitoring for processing big data from sensor network: A comparative study. <i>Structural Health Monitoring</i> , 2022, 21, 803-825.	4.3	27
17	Thermal properties of the graphite/n-docosane composite PCM. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 77-83.	2.0	24
18	Relaxation behavior of prestressing basalt fiber-reinforced polymer tendons considering anchorage slippage. <i>Journal of Composite Materials</i> , 2017, 51, 1275-1284.	1.2	24

#	ARTICLE	IF	CITATIONS
19	Deep Learning-Based Crack Identification for Steel Pipelines by Extracting Features from 3D Shadow Modeling. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6063.	1.3	24
20	Multimode Interference-Based Fiber-Optic Ultrasonic Sensor for Non-Contact Displacement Measurement. <i>IEEE Sensors Journal</i> , 2016, 16, 5632-5635.	2.4	21
21	Improving the tensile strength of continuous basalt fiber by mixing basalts. <i>Fibers and Polymers</i> , 2017, 18, 1796-1803.	1.1	21
22	Preparation and Performance of Highly Conductive Phase Change Materials Prepared with Paraffin, Expanded Graphite, and Diatomite. <i>International Journal of Green Energy</i> , 2011, 8, 121-129.	2.1	20
23	PERFORMANCE ADVANCEMENT OF RC COLUMNS BY APPLYING BASALT FRP COMPOSITES WITH NSM AND CONFINEMENT SYSTEM. <i>Journal of Earthquake and Tsunami</i> , 2013, 07, 1350007.	0.7	20
24	Integrated Performance of FRP Tendons with Fiber Hybridization. <i>Journal of Composites for Construction</i> , 2014, 18, .	1.7	19
25	Damping properties of FRP cables for long-span cable-stayed bridges. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 2701-2713.	1.3	19
26	Experimental Study and Numerical Modeling of Cyclic Bond-Slip Behavior of Basalt FRP Bars in Concrete. <i>Journal of Composites for Construction</i> , 2018, 22, .	1.7	19
27	Bond behavior between basalt fiber-reinforced polymer rebars and coral-sand concrete conditioned in saline solution. <i>Structural Concrete</i> , 2020, 21, 659-672.	1.5	19
28	Reliability analysis of intermediate crack-induced debonding failure in FRP-strengthened concrete members. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 1651-1671.	2.0	18
29	Structural health monitoring of a steel stringer bridge with area sensing. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1049-1058.	2.0	17
30	Basalt fiber reinforced polymer grids as an external reinforcement for reinforced concrete structures. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1615-1627.	1.6	17
31	Degradation of Creep Behaviors of Basalt Fiber-Reinforced Polymer Tendons in Salt Solution. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	17
32	Experimental Study of Vibration Characteristics of FRP Cables for Long-Span Cable-Stayed Bridges. <i>Journal of Bridge Engineering</i> , 2015, 20, .	1.4	16
33	Bridge Assessment and Health Monitoring with Distributed Long-Gauge FBG Sensors. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 494260.	1.3	15
34	Performance Evaluation of PPP-BOTDA-Based Distributed Optical Fiber Sensors. <i>International Journal of Distributed Sensor Networks</i> , 2012, 8, 414692.	1.3	14
35	Finite element model updating of flexural structures based on modal parameters extracted from dynamic distributed macro-strain responses. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 201-218.	1.4	13
36	Effects of radial stress at anchor zone on tensile properties of basalt fiber-reinforced polymer tendons. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1937-1949.	1.6	12

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37	Effect of Fe <sub>2</sub> O <sub>3</sub> Concentration on the Properties of Basalt Glasses. Journal of Natural Fibers, 2022, 19, 575-585.	1.7	9
38	Stripe-PZT Sensor-Based Baseline-Free Crack Diagnosis in a Structure with a Welded Stiffener. Sensors, 2016, 16, 1511.	2.1	7
39	Durability of basalt fiber-reinforced polymer bars in wet-dry cycles alkali-salt corrosion. Science and Engineering of Composite Materials, 2019, 26, 43-52.	0.6	7
40	High Sensitive Refractive Index Sensor Based on Cladding Mode Recoupled Chirped FBG. IEEE Photonics Technology Letters, 2012, 24, 413-415.	1.3	6
41	Experimental and Numerical Evaluation of the Shear Behavior of Reinforced Concrete T-Beams with Hybrid Steel-FRP Stirrups. Journal of Composites for Construction, 2017, 21, .	1.7	6
42	Enhancement of FRP Cable Anchor System: Optimization of Load Transfer Component and Full-Scale Cable Experiment. Journal of Composites for Construction, 2022, 26, .	1.7	6
43	Optimisation of a prestressed fibre-reinforced polymer shell for composite bridge deck. Structure and Infrastructure Engineering, 2019, 15, 454-466.	2.0	5
44	Dynamic analysis of soil-structure interaction shear model for beams on transversely isotropic viscoelastic soil. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 999-1019.	0.7	5
45	Preparation, Characterization, and Humidity-Control Performance of Organobentonite/Sodium Polyacrylate Mortar. Journal of Macromolecular Science - Physics, 2012, 51, 1647-1657.	0.4	4
46	Damping Behavior of Hybrid Fiber-Reinforced Polymer Cable with Self-Damping for Long-Span Bridges. Journal of Bridge Engineering, 2017, 22, 05017005.	1.4	4
47	Fatigue Behavior of a Composite Bridge Deck with Prestressed Basalt Fiber-Reinforced Polymer Shell and Concrete. Journal of Bridge Engineering, 2020, 25, 04020088.	1.4	4
48	Temperature insensitive bending sensor based on microbending FBG cladding mode recoupling. Microwave and Optical Technology Letters, 2012, 54, 1674-1676.	0.9	3
49	Study on the Effect of Different Fe <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> Ratio on the Properties of Silicate Glass Fibers. Advances in Materials Science and Engineering, 2017, 2017, 1-7.	1.0	2
50	Failure mechanism of unidirectional basalt fiber-reinforced polymer composites with pretension of fiber yarns. Polymer Composites, 2022, 43, 6926-6931.	2.3	1