## Hong-Hu Zhu

## List of Publications by Citations

Source: https://exaly.com/author-pdf/3023548/hong-hu-zhu-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117<br/>papers1,927<br/>citations26<br/>h-index38<br/>g-index128<br/>ext. papers2,532<br/>ext. citations3.3<br/>avg, IF5.36<br/>L-index

#	Paper	IF	Citations
117	Investigation of the evolutionary process of a reinforced model slope using a fiber-optic monitoring network. <i>Engineering Geology</i> , <b>2015</b> , 186, 34-43	6	90
116	An optical fibre monitoring system for evaluating the performance of a soil nailed slope. <i>Smart Structures and Systems</i> , <b>2012</b> , 9, 393-410		78
115	Field Pullout Testing and Performance Evaluation of GFRP Soil Nails. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2011</b> , 137, 633-642	3.4	74
114	Large-scale geomechanical model testing of an underground cavern group in a true three-dimensional (3-D) stress state. <i>Canadian Geotechnical Journal</i> , <b>2010</b> , 47, 935-946	3.2	69
113	Probabilistic prediction of rainfall-induced slope failure using a mechanics-based model. <i>Engineering Geology</i> , <b>2014</b> , 168, 129-140	6	68
112	FBG-Based Monitoring of Geohazards: Current Status and Trends. Sensors, 2017, 17,	3.8	68
111	Distributed fiber optic monitoring and stability analysis of a model slope under surcharge loading. Journal of Mountain Science, <b>2014</b> , 11, 979-989	2.1	63
110	Monitoring of lateral displacements of a slope using a series of special fibre Bragg grating-based in-place inclinometers. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 025007	2	57
109	Monitoring and warning of landslides and debris flows using an optical fiber sensor technology. Journal of Mountain Science, <b>2011</b> , 8, 728-738	2.1	54
108	Fiber Bragg grating-based performance monitoring of a slope model subjected to seepage. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 095027	3.4	50
107	Monitoring Internal Displacements of a Model Dam Using FBG Sensing Bars. <i>Advances in Structural Engineering</i> , <b>2010</b> , 13, 249-261	1.9	49
106	Mechanism of biochar soil poregaswater interaction: gas properties of biochar-amended sandy soil at different degrees of compaction using KNN modeling. <i>Acta Geophysica</i> , <b>2020</b> , 68, 207-217	2.2	48
105	Modeling the pullout behavior of short fiber in reinforced soil. <i>Geotextiles and Geomembranes</i> , <b>2014</b> , 42, 329-338	5.2	38
104	Monitoring the behavior of segment joints in a shield tunnel using distributed fiber optic sensors. Structural Control and Health Monitoring, <b>2018</b> , 25, e2056	4.5	37
103	A new flexible FBG sensing beam for measuring dynamic lateral displacements of soil in a shaking table test. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 200-209	4.6	35
102	Settlement analysis of viscoelastic foundation under vertical line load using a fractional Kelvin-Voigt model. <i>Geomechanics and Engineering</i> , <b>2012</b> , 4, 67-78		34
101	Interfacial characterization of soil-embedded optical fiber for ground deformation measurement.  Smart Materials and Structures, <b>2014</b> , 23, 095022	3.4	33

## (2021-2017)

100	Mechanical properties and energy conversion of 3D close-packed lattice model for brittle rocks. <i>Computers and Geosciences</i> , <b>2017</b> , 103, 12-20	4.5	32
99	Feasibility study of strain based stability evaluation of locally loaded slopes: Insights from physical and numerical modeling. <i>Engineering Geology</i> , <b>2016</b> , 208, 39-50	6	32
98	A kinematic method for calculating shear displacements of landslides using distributed fiber optic strain measurements. <i>Engineering Geology</i> , <b>2018</b> , 234, 83-96	6	31
97	A distributed measurement method for in-situ soil moisture content by using carbon-fiber heated cable. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2015</b> , 7, 700-707	5.3	30
96	Introduction to an FBG-based inclinometer and its application to landslide monitoring. <i>Journal of Civil Structural Health Monitoring</i> , <b>2015</b> , 5, 645-653	2.9	29
95	Prediction of one-dimensional compression behavior of Nansha clay using fractional derivatives. <i>Marine Georesources and Geotechnology</i> , <b>2017</b> , 35, 688-697	2.2	29
94	Experimental investigation of pavement behavior after embankment widening using a fiber optic sensor network. <i>Structural Health Monitoring</i> , <b>2015</b> , 14, 46-56	4.4	27
93	A quantitative monitoring technology for seepage in slopes using DTS. <i>Engineering Geology</i> , <b>2015</b> , 186, 100-104	6	26
92	Investigation of the influence of soil moisture on thermal response tests using active distributed temperature sensing (ADTS) technology. <i>Energy and Buildings</i> , <b>2018</b> , 173, 239-251	7	26
91	An improved distributed sensing method for monitoring soil moisture profile using heated carbon fibers. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 123, 175-184	4.6	26
90	Forecasting slope deformation field using correlated grey model updated with time correction factor and background value optimization. <i>Engineering Geology</i> , <b>2019</b> , 260, 105215	6	26
89	Role of the interface between distributed fibre optic strain sensor and soil in ground deformation measurement. <i>Scientific Reports</i> , <b>2016</b> , 6, 36469	4.9	24
88	Time-dependent pullout behavior of glass fiber reinforced polymer (GFRP) soil nail in sand. <i>Canadian Geotechnical Journal</i> , <b>2015</b> , 52, 671-681	3.2	23
87	Performance Monitoring of a Glass Fiber-Reinforced Polymer Bar Soil Nail during Laboratory Pullout Test Using FBG Sensing Technology. <i>International Journal of Geomechanics</i> , <b>2013</b> , 13, 467-472	3.1	23
86	Feasibility study on corrosion monitoring of a concrete column with central rebar using BOTDR. <i>Smart Structures and Systems</i> , <b>2014</b> , 13, 41-53		22
85	A soil moisture estimation method using actively heated fiber Bragg grating sensors. <i>Engineering Geology</i> , <b>2018</b> , 242, 142-149	6	22
84	Strain integration-based soil shear displacement measurement using high-resolution strain sensing technology. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 166, 108210	4.6	21
83	PSO-SVM-based deep displacement prediction of Majiagou landslide considering the deformation hysteresis effect. <i>Landslides</i> , <b>2021</b> , 18, 179-193	6.6	20

82	A field study on distributed fiber optic deformation monitoring of overlying strata during coal mining. <i>Journal of Civil Structural Health Monitoring</i> , <b>2015</b> , 5, 553-562	2.9	18
81	A Fiber Bragg-Grating-Based Miniature Sensor for the Fast Detection of Soil Moisture Profiles in Highway Slopes and Subgrades. <i>Sensors</i> , <b>2018</b> , 18,	3.8	18
80	Toward Distributed Fiber-Optic Sensing of Subsurface Deformation: A Theoretical Quantification of Ground-Borehole-Cable Interaction. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB0	18878	16
79	Analysis on shear wave velocity structure of a gravel landslide based on dual-source surface wave method. <i>Landslides</i> , <b>2017</b> , 14, 1127-1137	6.6	16
78	Evaluations of load-deformation behavior of soil nail using hyperbolic pullout model. <i>Geomechanics and Engineering</i> , <b>2014</b> , 6, 277-292		16
77	Comparative Study on the Elongation Measurement of a Soil Nail Using Optical Lower Coherence Interferometry Method and FBG Method. <i>Advances in Structural Engineering</i> , <b>2010</b> , 13, 309-319	1.9	16
76	Stability analysis of an ancient landslide considering shear strength reduction behavior of slip zone soil. <i>Landslides</i> , <b>2016</b> , 13, 173-181	6.6	15
75	Physical modelling of sliding failure of concrete gravity dam under overloading condition. <i>Geomechanics and Engineering</i> , <b>2010</b> , 2, 89-106		15
74	Influence of biochar from animal and plant origin on the compressive strength characteristics of degraded landfill surface soils. <i>International Journal of Damage Mechanics</i> , <b>2021</b> , 30, 484-501	3	15
73	Monitoring of tunnel excavation based on the fiber Bragg grating sensing technology.  Measurement: Journal of the International Measurement Confederation, 2021, 169, 108334	4.6	15
72	Theoretical investigation of interaction between a rectangular plate and fractional viscoelastic foundation. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2014</b> , 6, 373-379	5.3	14
71	Resonance magnetoelectric effect in radially polarized long cylindrical composite structures. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 214105	2.5	14
70	Experimental Investigation of Consolidation Properties of Nano-Bentonite Mixed Clayey Soil. <i>Sustainability</i> , <b>2020</b> , 12, 459	3.6	13
69	Performance evaluation of two types of heated cables for distributed temperature sensing-based measurement of soil moisture content. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2016</b> , 8, 212-217	5.3	13
68	Deformation Monitoring of Metro Tunnel with a New Ultrasonic-Based System. Sensors, 2017, 17,	3.8	13
67	Quantifying progressive failure of micro-anchored fiber optic cableBand interface via high-resolution distributed strain sensing. <i>Canadian Geotechnical Journal</i> , <b>2020</b> , 57, 871-881	3.2	13
66	A machine learning method for inclinometer lateral deflection calculation based on distributed strain sensing technology. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2020</b> , 79, 3383-3401	4	12
65	Gas permeability in soil amended with biochar at different compaction states. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012073	0.3	12

64	Exploring efficiency of biochar in enhancing water retention in soils with varying grain size distributions using ANN technique. <i>Acta Geotechnica</i> ,1	4.9	12
63	Investigating temperature and moisture profiles of seasonally frozen soil under different land covers using actively heated fiber Bragg grating sensors. <i>Engineering Geology</i> , <b>2021</b> , 290, 106197	6	12
62	Quantitative Evaluation of Optical Fiber/Soil Interfacial Behavior and Its Implications for Sensing Fiber Selection. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 3059-3067	4	11
61	Development and application of a fixed-point fiber-optic sensing cable for ground fissure monitoring. <i>Journal of Civil Structural Health Monitoring</i> , <b>2016</b> , 6, 715-724	2.9	11
60	Experimental Investigation of Pullout Behavior of Fiber-Reinforced Polymer Reinforcements in Sand. <i>Journal of Composites for Construction</i> , <b>2015</b> , 19, 04014062	3.3	10
59	Soil strain-field and stability analysis of cut slope based on optical fiber measurement. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2017</b> , 76, 937-946	4	10
58	Analysis of the strain process of soil slope model during infiltration using BOTDA. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2017</b> , 76, 947-959	4	10
57	Experimental and numerical investigation of uplift behavior of umbrella-shaped ground anchor. <i>Geomechanics and Engineering</i> , <b>2014</b> , 7, 165-181		10
56	A field study on the application of distributed temperature sensing technology in thermal response tests for borehole heat exchangers. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2019</b> , 78, 3901	-3915	10
55	Fast vibration characteristics analysis of an underwater shield tunnel using the accelerometer network enhanced by edge computing. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 141, 52-61	4.6	9
54	Experimental study on pullout performance of sensing optical fibers in compacted sand. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2015</b> , 73, 284-294	4.6	9
53	Fiber Bragg Grating <b>B</b> ased Flume Test to Study the Initiation of Landslide-Debris Flows Induced by Concentrated Runoff. <i>Geotechnical Testing Journal</i> , <b>2021</b> , 44, 20190290	1.3	9
52	Feasibility study on ice content measurement of frozen soil using actively heated FBG sensors. <i>Cold Regions Science and Technology</i> , <b>2021</b> , 189, 103332	3.8	8
51	An Fiber Bragg Grating-Based Monitoring System for Slope Deformation Studies in Geotechnical Centrifuges. <i>Sensors</i> , <b>2019</b> , 19,	3.8	7
50	Slope Stability Analysis Based on Measured Strains along Soil Nails Using FBG Sensing Technology. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-5	1.1	7
49	Bending of a rectangular plate resting on a fractionalized Zener foundation. <i>Structural Engineering and Mechanics</i> , <b>2014</b> , 52, 1069-1084		7
48	DFOS Applications to Geo-Engineering Monitoring. <i>Photonic Sensors</i> , <b>2021</b> , 11, 158-186	2.3	7
47	A long term evaluation of circular mat foundations on clay deposits using fractional derivatives. <i>Computers and Geotechnics</i> , <b>2018</b> , 94, 72-82	4.4	6

46	Feasibility Investigation of Improving the Modified GreenAmpt Model for Treatment of Horizontal Infiltration in Soil. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 645	3	5
45	Deformation Monitoring of Geomechanical Model Test and Its Application in Overall Stability Analysis of a High Arch Dam. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-12	2	5
44	Feasibility Study of Anchored Fiber-Optic Strain-Sensing Arrays for Monitoring Soil Deformation beneath Model Foundation. <i>Geotechnical Testing Journal</i> , <b>2019</b> , 42, 20170321	1.3	5
43	Understanding Soil Surface Water Content Using Light Reflection Theory: A Novel Color Analysis Technique Considering Variability in Light Intensity. <i>Journal of Testing and Evaluation</i> , <b>2020</b> , 48, 201803	26	5
42	Performance evaluation of buried pipe under loading using fiber Bragg grating and particle image velocimetry techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 186, 110086	4.6	5
41	Performance evaluation of soil-embedded plastic optical fiber sensors for geotechnical monitoring. <i>Smart Structures and Systems</i> , <b>2016</b> , 17, 297-311		4
40	Modeling Dependence Among Suction, Moisture, and Cracking of a Novel Biochar Synthesized from Weed Species. <i>Advances in Civil Engineering Materials</i> , <b>2020</b> , 9, 20180092	0.7	4
39	Investigating the hydro-mechanical properties of calcareous sand foundations using distributed fiber optic sensing. <i>Engineering Geology</i> , <b>2021</b> , 295, 106440	6	4
38	Smart Sensing Technologies and Their Applications in Civil Infrastructures 2016. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-2	2	4
37	Landslide displacement prediction based on a novel hybrid model and convolutional neural network considering time-varying factors. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2021</b> , 80, 7403	4	4
36	Deformation prediction of reservoir landslides based on a Bayesian optimized random forest-combined Kalman filter. <i>Environmental Earth Sciences</i> , <b>2022</b> , 81, 1	2.9	4
35	Modeling dynamic responses of a cross-river road shield tunnel under stochastic vehicle loads. <i>Tunnelling and Underground Space Technology</i> , <b>2020</b> , 102, 103432	5.7	3
34	Smart Sensing Technologies and Their Applications in Civil Infrastructures. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-1	2	3
33	Assessment of hydro-mechanical properties of biochar-amended soil sourced from two contrasting feedstock. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 1	2.3	3
32	Passive distributed temperature sensing (PDTS)-based moisture content estimation in agricultural soils under different vegetative canopies. <i>Paddy and Water Environment</i> , <b>2021</b> , 19, 383	1.6	3
31	Characterization of Soil Moisture Distribution and Movement Under the Influence of Watering-dewatering Using AHFO and BOTDA Technologies. <i>Environmental and Engineering Geoscience</i> , <b>2019</b> , 25, 189-202	0.7	2
30	Evaluation of feature- and pixel-based methods for deflection measurements in temporary structure monitoring. <i>Journal of Civil Structural Health Monitoring</i> , <b>2015</b> , 5, 615-628	2.9	2
29	Monitoring of soil nailed slopes and dams using innovative technologies 2008, 1361-1366		2

28	Assessment of Flexural and Splitting Strength of Fiber-Reinforced Concrete Using Artificial Intelligence. <i>Advances in Civil Engineering Materials</i> , <b>2019</b> , 8, 20190030	0.7	2
27	Influence of soil density on gas permeability and water retention in soils amended with in-house produced biochar. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2021</b> ,	5.3	2
26	Randomly generating three-dimensional realistic schistous sand particles using deep learning: Variational autoencoder implementation. <i>Engineering Geology</i> , <b>2021</b> , 291, 106235	6	2
25	Exploring Efficiency of Biochar in Enhancing Water Retention in Soils with Varying Grain Size Distributions using ANN Technique		2
24	Field monitoring of bearing capacity efficiency of permeable pipe pile in clayey soil: A comparative study. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 186, 110151	4.6	2
23	Influence of in-house produced biochar on geotechnical properties of expansive clay. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 463, 012072	0.3	1
22	Open image in new windowLaboratory Studies on Slope Stability Monitoring Using Distributed Fiber-Optic Sensing Technologies <b>2014</b> , 625-629		1
21	An Artificial Intelligence Model for Computing Optimum Fly Ash Content for Structural-Grade Concrete. <i>Advances in Civil Engineering Materials</i> , <b>2019</b> , 8, 20180079	0.7	1
20	Research review of large deformation monitoring of rock and soil. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 861, 042030	0.3	1
19	Fractional calculus-based compression modeling of soft clay. <i>Japanese Geotechnical Society Special Publication</i> , <b>2016</b> , 2, 417-420	0.2	1
18	Stochastic modelling of relative water permeability in vegetative soils with implications on stability of bioengineered slope. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2018</b> , 32, 3541-3559	3.5	1
17	Performance monitoring of a curved shield tunnel during adjacent excavations using a fiber optic nervous sensing system. <i>Tunnelling and Underground Space Technology</i> , <b>2022</b> , 124, 104483	5.7	1
16	Development and Evaluation of Arduino-Based Automatic Irrigation System for Regulation of Soil Moisture. <i>International Journal of Geosynthetics and Ground Engineering</i> , <b>2022</b> , 8, 1	2	O
15	Monitoring Water Infiltration of Capillary Barrier with Actively Heated Fiber Bragg Gratings. <i>Environmental Geotechnics</i> ,1-16	1.2	O
14	Modeling uplift failure of pipes buried in sand using material point method. <i>Tunnelling and Underground Space Technology</i> , <b>2022</b> , 119, 104203	5.7	О
13	Correlations of SMR-Qslope Data in Stability Classification of Discontinuous Rock Slope: A Modified Relationship Considering the Iranian Data. <i>Geotechnical and Geological Engineering</i> ,1	1.5	O
12	Distributed Fiber Optic Sensing in Pile Load Tests: Technological Development and Applications. Lecture Notes in Civil Engineering, 2022, 1-11	0.3	0
11	Forecasting reservoir-induced landslide deformation using genetic algorithm enhanced multivariate Taylor series Kalman filter. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2022</b> , 81, 1	4	O

10	Monitoring Flexure Behavior of Compacted Clay Beam Using High-Resolution Distributed Fiber Optic Strain Sensors. <i>Geotechnical Testing Journal</i> , <b>2022</b> , 45, 20200331	1.3	О
9	A field test to investigate spatiotemporal distribution of soil moisture under different cropland covers in the semiarid Loess Plateau of China. <i>Paddy and Water Environment</i> ,1	1.6	O
8	Bearing performance of steel pipe pile in multilayered marine soil using fiber optic technique: A case study. <i>Marine Georesources and Geotechnology</i> ,1-17	2.2	О
7	Subsurface Multi-Physical Monitoring of a Reservoir Landslide with the Fiber-Optic Nerve System. <i>Geophysical Research Letters</i> ,	4.9	O
6	Closure to <b>E</b> xperimental Investigation of Pullout Behavior of Fiber-Reinforced Polymer Reinforcements in Sand <b>[</b> by Cheng-Cheng Zhang, Hong-Hu Zhu, Bin Shi, Fang-Dong Wu, and Jian-Hua Yin. <i>Journal of Composites for Construction</i> , <b>2015</b> , 19, 07015005	3.3	
5	Evaluating Suitability of Geomaterials-Amended Soil for Landfill Liner: A Comparative Study. Journal of Hazardous, Toxic, and Radioactive Waste, <b>2020</b> , 24, 04020052	2.3	
4	Fiber Optic Monitoring and Forecasting of Reservoir Landslides. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 1-13	0.3	
3	Experimental Study on Overlying Strata Deformation and Failure Using Distributed Intelligent Sensing. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 315-328	0.3	
2	Key-Block Theorem Application on Discontinuous Rock Slope Instabilities and Rock Mass Description. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 200-208	0.3	
1	Research Status and Prospect of Anti-slide Piles for Slope Stabilization. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 223-236	0.3	