

# Bin Shi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5126006/publications.pdf>

Version: 2024-02-01

176  
papers

8,742  
citations

43973

48  
h-index

53109

85  
g-index

178  
all docs

178  
docs citations

178  
times ranked

3804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strength and mechanical behavior of short polypropylene fiber reinforced and cement stabilized clayey soil. <i>Geotextiles and Geomembranes</i> , 2007, 25, 194-202.	2.3	660
2	Effect of polypropylene fibre and lime admixture on engineering properties of clayey soil. <i>Engineering Geology</i> , 2006, 87, 230-240.	2.9	332
3	Influencing factors of geometrical structure of surface shrinkage cracks in clayey soils. <i>Engineering Geology</i> , 2008, 101, 204-217.	2.9	323
4	Quantification and characterization of microporosity by image processing, geometric measurement and statistical methods: Application on SEM images of clay materials. <i>Applied Clay Science</i> , 2011, 54, 97-106.	2.6	294
5	Interfacial shear strength of fiber reinforced soil. <i>Geotextiles and Geomembranes</i> , 2010, 28, 54-62.	2.3	289
6	Experimental characterization of shrinkage and desiccation cracking in thin clay layer. <i>Applied Clay Science</i> , 2011, 52, 69-77.	2.6	273
7	Desiccation and cracking behaviour of clay layer from slurry state under wetting-drying cycles. <i>Geoderma</i> , 2011, 166, 111-118.	2.3	261
8	Experiment evidence on the temperature dependence of desiccation cracking behavior of clayey soils. <i>Engineering Geology</i> , 2010, 114, 261-266.	2.9	232
9	Automatic quantification of crack patterns by image processing. <i>Computers and Geosciences</i> , 2013, 57, 77-80.	2.0	207
10	Desiccation cracking behavior of polypropylene fiber-reinforced clayey soil. <i>Canadian Geotechnical Journal</i> , 2012, 49, 1088-1101.	1.4	179
11	Bio-remediation of desiccation cracking in clayey soils through microbially induced calcite precipitation (MICP). <i>Engineering Geology</i> , 2020, 264, 105389.	2.9	149
12	Tensile Strength of Fiber-Reinforced Soil. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	147
13	Research on the stabilization treatment of clay slope topsoil by organic polymer soil stabilizer. <i>Engineering Geology</i> , 2011, 117, 114-120.	2.9	140
14	Effect of discrete fibre reinforcement on soil tensile strength. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014, 6, 133-137.	3.7	133
15	Desiccation cracking of soils: A review of investigation approaches, underlying mechanisms, and influencing factors. <i>Earth-Science Reviews</i> , 2021, 216, 103586.	4.0	124
16	Test on application of distributed fiber optic sensing technique into soil slope monitoring. <i>Landslides</i> , 2009, 6, 61-68.	2.7	118
17	Investigation of the evolutionary process of a reinforced model slope using a fiber-optic monitoring network. <i>Engineering Geology</i> , 2015, 186, 34-43.	2.9	114
18	Experimental Investigation of the Desiccation Cracking Behavior of Soil Layers during Drying. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 873-878.	1.3	105

#	ARTICLE	IF	CITATIONS
19	Effects of soil characteristics on moisture evaporation. <i>Engineering Geology</i> , 2018, 239, 126-135.	2.9	104
20	FBG-Based Monitoring of Geohazards: Current Status and Trends. <i>Sensors</i> , 2017, 17, 452.	2.1	102
21	Applicability of Microbial Calcification Method for Sandy-Slope Surface Erosion Control. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	102
22	Tensile Strength of Compacted Clayey Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	101
23	Nucleation and propagation mechanisms of soil desiccation cracks. <i>Engineering Geology</i> , 2018, 238, 27-35.	2.9	97
24	Static liquefaction behavior of saturated fiber-reinforced sand in undrained ring-shear tests. <i>Geotextiles and Geomembranes</i> , 2011, 29, 462-471.	2.3	87
25	Effects of microstructure on desiccation cracking of a compacted soil. <i>Engineering Geology</i> , 2020, 265, 105418.	2.9	86
26	Mechanical and hydration properties of ground granulated blastfurnace slag pastes activated with MgO-CaO mixtures. <i>Construction and Building Materials</i> , 2014, 69, 101-108.	3.2	85
27	Distributed fiber optic monitoring and stability analysis of a model slope under surcharge loading. <i>Journal of Mountain Science</i> , 2014, 11, 979-989.	0.8	80
28	Effect of wetting-drying cycles on profile mechanical behavior of soils with different initial conditions. <i>Catena</i> , 2016, 139, 105-116.	2.2	80
29	Characterizing drying-induced clayey soil desiccation cracking process using electrical resistivity method. <i>Applied Clay Science</i> , 2018, 152, 101-112.	2.6	80
30	Three-dimensional characterization of desiccation cracking behavior of compacted clayey soil using X-ray computed tomography. <i>Engineering Geology</i> , 2019, 255, 1-10.	2.9	79
31	Distributed acquisition, characterization and process analysis of multi-field information in slopes. <i>Engineering Geology</i> , 2014, 182, 49-62.	2.9	72
32	Tensile strength of clayey soil and the strain analysis based on image processing techniques. <i>Engineering Geology</i> , 2019, 253, 137-148.	2.9	72
33	Effects of wetting-drying cycles on soil strength profile of a silty clay in micro-penetrometer tests. <i>Engineering Geology</i> , 2016, 206, 60-70.	2.9	71
34	Prediction of landslide sharp increase displacement by SVM with considering hysteresis of groundwater change. <i>Engineering Geology</i> , 2021, 280, 105876.	2.9	68
35	Coupling effects of interfacial friction and layer thickness on soil desiccation cracking behavior. <i>Engineering Geology</i> , 2019, 260, 105220.	2.9	66
36	Effects of wetting-drying cycles and desiccation cracks on mechanical behavior of an unsaturated soil. <i>Catena</i> , 2020, 194, 104721.	2.2	66

#	ARTICLE	IF	CITATIONS
37	A kinematic method for calculating shear displacements of landslides using distributed fiber optic strain measurements. <i>Engineering Geology</i> , 2018, 234, 83-96.	2.9	64
38	PSO-SVM-based deep displacement prediction of Majiagou landslide considering the deformation hysteresis effect. <i>Landslides</i> , 2021, 18, 179-193.	2.7	63
39	Monitoring the behavior of segment joints in a shield tunnel using distributed fiber optic sensors. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2056.	1.9	60
40	Drought-induced Soil Desiccation Cracking Behavior With Consideration of Basal Friction and Layer Thickness. <i>Water Resources Research</i> , 2020, 56, e2019WR026948.	1.7	60
41	Improvement of water-stability of clay aggregates admixed with aqueous polymer soil stabilizers. <i>Catena</i> , 2009, 77, 175-179.	2.2	59
42	Fiber Bragg grating-based performance monitoring of a slope model subjected to seepage. <i>Smart Materials and Structures</i> , 2014, 23, 095027.	1.8	58
43	Investigation of land subsidence with the combination of distributed fiber optic sensing techniques and microstructure analysis of soils. <i>Engineering Geology</i> , 2018, 240, 34-47.	2.9	54
44	Effect of biochar on desiccation cracking characteristics of clayey soils. <i>Geoderma</i> , 2020, 364, 114182.	2.3	54
45	Vertically Distributed Sensing of Deformation Using Fiber Optic Sensing. <i>Geophysical Research Letters</i> , 2018, 45, 11,732.	1.5	53
46	Water infiltration in a cracked soil considering effect of drying-wetting cycles. <i>Journal of Hydrology</i> , 2021, 593, 125640.	2.3	53
47	Modeling the pullout behavior of short fiber in reinforced soil. <i>Geotextiles and Geomembranes</i> , 2014, 42, 329-338.	2.3	50
48	Computed tomography based numerical simulation for triaxial test of soil-rock mixture. <i>Computers and Geotechnics</i> , 2016, 73, 179-188.	2.3	50
49	Internal strain monitoring for coal mining similarity model based on distributed fiber optical sensing. Measurement: <i>Journal of the International Measurement Confederation</i> , 2017, 97, 234-241.	2.5	50
50	A Feasibility Study on the Application of Fiber-Optic Distributed Sensors for Strain Measurement in the Taiwan Strait Tunnel Project. <i>Marine Georesources and Geotechnology</i> , 2003, 21, 333-343.	1.2	49
51	Investigation on the interfacial mechanical behavior of wave-shaped fiber reinforced soil by pullout test. <i>Geotextiles and Geomembranes</i> , 2016, 44, 872-883.	2.3	48
52	Forecasting slope deformation field using correlated grey model updated with time correction factor and background value optimization. <i>Engineering Geology</i> , 2019, 260, 105215.	2.9	48
53	Settlement analysis of viscoelastic foundation under vertical line load using a fractional Kelvin-Voigt model. <i>Geomechanics and Engineering</i> , 2012, 4, 67-78.	0.9	46
54	Activation of ground granulated blast furnace slag by using calcined dolomite. <i>Construction and Building Materials</i> , 2014, 68, 252-258.	3.2	45

#	ARTICLE	IF	CITATIONS
55	Feasibility study of strain based stability evaluation of locally loaded slopes: Insights from physical and numerical modeling. <i>Engineering Geology</i> , 2016, 208, 39-50.	2.9	45
56	Subsurface Multi-Physical Monitoring of a Reservoir Landslide With the Fiber-Optic Nerve System. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	45
57	Incorporation of reactive magnesia and quicklime in sustainable binders for soil stabilisation. <i>Engineering Geology</i> , 2015, 195, 53-62.	2.9	44
58	Role of the interface between distributed fibre optic strain sensor and soil in ground deformation measurement. <i>Scientific Reports</i> , 2016, 6, 36469.	1.6	42
59	Prediction of one-dimensional compression behavior of Nansha clay using fractional derivatives. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 688-697.	1.2	42
60	Interaction study of permafrost and highway along Qinghai-Xizang Highway. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 97-105.	0.9	40
61	Monitoring the stress of the post-tensioning cable using fiber optic distributed strain sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2006, 39, 420-428.	2.5	38
62	Interfacial characterization of soil-embedded optical fiber for ground deformation measurement. <i>Smart Materials and Structures</i> , 2014, 23, 095022.	1.8	38
63	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> , 2015, 7, 700-707.	3.7	38
64	Application of microbial induced carbonate precipitation for loess surface erosion control. <i>Engineering Geology</i> , 2021, 294, 106387.	2.9	38
65	Magnification effects on the interpretation of SEM images of expansive soils. <i>Engineering Geology</i> , 2005, 78, 89-94.	2.9	37
66	Experimental investigation of pavement behavior after embankment widening using a fiber optic sensor network. <i>Structural Health Monitoring</i> , 2015, 14, 46-56.	4.3	37
67	Application of electrical resistivity method in the characterization of 2D desiccation cracking process of clayey soil. <i>Engineering Geology</i> , 2020, 265, 105416.	2.9	37
68	Application of distributed fiber optic sensing technique in land subsidence monitoring. <i>Journal of Civil Structural Health Monitoring</i> , 2015, 5, 587-597.	2.0	36
69	An improved distributed sensing method for monitoring soil moisture profile using heated carbon fibers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 123, 175-184.	2.5	36
70	Actively heated fiber optics based thermal response test: A field demonstration. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110336.	8.2	36
71	Orientation of aggregates of fine-grained soil: quantification and application. <i>Engineering Geology</i> , 1998, 50, 59-70.	2.9	35
72	Effect of polyurethane on the stability of sand-clay mixtures. <i>Bulletin of Engineering Geology and the Environment</i> , 2012, 71, 537-544.	1.6	35

#	ARTICLE	IF	CITATIONS
73	A study of the effect of temperature on the structural strength of a clayey soil using a micropenetrometer. <i>Bulletin of Engineering Geology and the Environment</i> , 2014, 73, 747-758.	1.6	34
74	Effects of compaction state on desiccation cracking behaviour of a clayey soil subjected to wetting-drying cycles. <i>Engineering Geology</i> , 2022, 302, 106650.	2.9	34
75	A quantitative monitoring technology for seepage in slopes using DTS. <i>Engineering Geology</i> , 2015, 186, 100-104.	2.9	33
76	Investigation of the influence of soil moisture on thermal response tests using active distributed temperature sensing (A <sup>2</sup> DTS) technology. <i>Energy and Buildings</i> , 2018, 173, 239-251.	3.1	33
77	Bio-mediated method for improving surface erosion resistance of clayey soils. <i>Engineering Geology</i> , 2021, 293, 106295.	2.9	33
78	Compression, swelling and rebound behavior of GMZ bentonite/additive mixture under coupled hydro-mechanical condition. <i>Engineering Geology</i> , 2017, 221, 50-60.	2.9	32
79	A soil moisture estimation method using actively heated fiber Bragg grating sensors. <i>Engineering Geology</i> , 2018, 242, 142-149.	2.9	31
80	The strain field method for structural damage identification using Brillouin optical fiber sensing. <i>Smart Materials and Structures</i> , 2007, 16, 843-850.	1.8	30
81	Model test of soil deformation response to draining-recharging conditions based on DFOS. <i>Engineering Geology</i> , 2017, 226, 107-121.	2.9	30
82	Quantification and characterizing of soil microstructure features by image processing technique. <i>Computers and Geotechnics</i> , 2020, 128, 103817.	2.3	30
83	Toward Distributed Fiber-Optic Sensing of Subsurface Deformation: A Theoretical Quantification of Ground-Borehole-Cable Interaction. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018878.	1.4	30
84	Automatic soil desiccation crack recognition using deep learning. <i>Geotechnique</i> , 2022, 72, 337-349.	2.2	30
85	DFOS Applications to Geo-Engineering Monitoring. <i>Photonic Sensors</i> , 2021, 11, 158-186.	2.5	30
86	Time-dependent pullout behavior of glass fiber reinforced polymer (GFRP) soil nail in sand. <i>Canadian Geotechnical Journal</i> , 2015, 52, 671-681.	1.4	28
87	Internal Deformation Monitoring of Slope Based on BOTDR. <i>Journal of Sensors</i> , 2016, 2016, 1-8.	0.6	28
88	Quantifying progressive failure of micro-anchored fiber optic cable-sand interface via high-resolution distributed strain sensing. <i>Canadian Geotechnical Journal</i> , 2020, 57, 871-881.	1.4	28
89	Potential Drought Mitigation Through Microbial Induced Calcite Precipitation-MICP. <i>Water Resources Research</i> , 2021, 57, e2020WR029434.	1.7	28
90	A field study on distributed fiber optic deformation monitoring of overlying strata during coal mining. <i>Journal of Civil Structural Health Monitoring</i> , 2015, 5, 553-562.	2.0	26

#	ARTICLE	IF	CITATIONS
91	Kinematics, triggers and mechanism of Majiagou landslide based on FBG real-time monitoring. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	26
92	Performance monitoring of a curved shield tunnel during adjacent excavations using a fiber optic nervous sensing system. <i>Tunnelling and Underground Space Technology</i> , 2022, 124, 104483.	3.0	26
93	Experimental study on pullout performance of sensing optical fibers in compacted sand. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 73, 284-294.	2.5	25
94	A machine learning method for inclinometer lateral deflection calculation based on distributed strain sensing technology. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 3383-3401.	1.6	24
95	Investigation on desiccation cracking behavior of clayey soils with a perspective of fracture mechanics: a review. <i>Journal of Soils and Sediments</i> , 2022, 22, 859-888.	1.5	24
96	Theoretical investigation of interaction between a rectangular plate and fractional viscoelastic foundation. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014, 6, 373-379.	3.7	23
97	Feasibility study on ice content measurement of frozen soil using actively heated FBG sensors. <i>Cold Regions Science and Technology</i> , 2021, 189, 103332.	1.6	23
98	Tensile behavior of bio-cemented, fiber-reinforced calcareous sand from coastal zone. <i>Engineering Geology</i> , 2021, 294, 106390.	2.9	23
99	Feasibility study on corrosion monitoring of a concrete column with central rebar using BOTDR. <i>Smart Structures and Systems</i> , 2014, 13, 41-53.	1.9	23
100	Development and application of a fixed-point fiber-optic sensing cable for ground fissure monitoring. <i>Journal of Civil Structural Health Monitoring</i> , 2016, 6, 715-724.	2.0	22
101	Discrete element modelling of desiccation cracking in thin clay layer under different basal boundary conditions. <i>Computers and Geotechnics</i> , 2021, 130, 103931.	2.3	22
102	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> , 2021, 186, 110086.	2.5	21
103	Automatic soil crack recognition under uneven illumination condition with the application of artificial intelligence. <i>Engineering Geology</i> , 2022, 296, 106495.	2.9	21
104	Evaluations of load-deformation behavior of soil nail using hyperbolic pullout model. <i>Geomechanics and Engineering</i> , 2014, 6, 277-292.	0.9	20
105	Strain distribution based geometric models for characterizing the deformation of a sliding zone. <i>Engineering Geology</i> , 2019, 263, 105300.	2.9	20
106	Tensile behavior of clayey soils during desiccation cracking process. <i>Engineering Geology</i> , 2020, 279, 105909.	2.9	20
107	Impact of biochar on the desiccation cracking behavior of silty clay and its mechanisms. <i>Science of the Total Environment</i> , 2021, 794, 148608.	3.9	20
108	Integrated distributed fiber optic sensing technology-based structural monitoring of the pound lock. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1954.	1.9	19

#	ARTICLE	IF	CITATIONS
109	Soil strain-field and stability analysis of cut slope based on optical fiber measurement. Bulletin of Engineering Geology and the Environment, 2017, 76, 937-946.	1.6	19
110	A field study on the application of distributed temperature sensing technology in thermal response tests for borehole heat exchangers. Bulletin of Engineering Geology and the Environment, 2019, 78, 3901-3915.	1.6	19
111	Fiber-optic wireless sensor network using ultra-weak fiber Bragg gratings for vertical subsurface deformation monitoring. Natural Hazards, 2021, 109, 2557-2573.	1.6	19
112	Strain transfer mechanism in surface-bonded distributed fiber-optic sensors subjected to linear strain gradients: Theoretical modeling and experimental validation. Measurement: Journal of the International Measurement Confederation, 2021, 179, 109510.	2.5	19
113	Study on calibration model of soil water content based on actively heated fiber-optic FBG method in the in-situ test. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108176.	2.5	18
114	Experimental Investigation of Pullout Behavior of Fiber-Reinforced Polymer Reinforcements in Sand. Journal of Composites for Construction, 2015, 19, .	1.7	17
115	Performance evaluation of two types of heated cables for distributed temperature sensing-based measurement of soil moisture content. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 212-217.	3.7	17
116	Drying-induced soil shrinkage and desiccation cracking monitoring with distributed optical fiber sensing technique. Bulletin of Engineering Geology and the Environment, 2020, 79, 3959-3970.	1.6	17
117	Experimental investigation on pipe-soil interaction due to ground subsidence via high-resolution fiber optic sensing. Tunnelling and Underground Space Technology, 2022, 127, 104586.	3.0	17
118	Analysis of the strain process of soil slope model during infiltration using BOTDA. Bulletin of Engineering Geology and the Environment, 2017, 76, 947-959.	1.6	16
119	Quasi-distributed fiber-optic in-situ monitoring technology for large-scale measurement of soil water content and its application. Engineering Geology, 2021, 294, 106373.	2.9	16
120	Desiccation cracking of soil subjected to different environmental relative humidity conditions. Engineering Geology, 2022, 297, 106536.	2.9	16
121	Quantitative Evaluation of Optical Fiber/Soil Interfacial Behavior and Its Implications for Sensing Fiber Selection. IEEE Sensors Journal, 2015, 15, 3059-3067.	2.4	15
122	Land subsidence monitoring in sinking coastal areas using distributed fiber optic sensing: a case study. Natural Hazards, 2020, 103, 3043-3061.	1.6	15
123	Microanchored borehole fiber optics allows strain profiling of the shallow subsurface. Scientific Reports, 2021, 11, 9173.	1.6	15
124	Numerical Simulation of Desiccation Cracking in Clayey Soil Using a Multifield Coupling Discrete-Element Model. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	15
125	Evaluation of Sulfate Resistance of Calcined Dolomite Activated Ground Granulated Blast Furnace Slag. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	13
126	Feasibility Study of Anchored Fiber-Optic Strain-Sensing Arrays for Monitoring Soil Deformation beneath Model Foundation. Geotechnical Testing Journal, 2019, 42, 20170321.	0.5	13



#	ARTICLE	IF	CITATIONS
127	Effects of biochar particle size and dosage on the desiccation cracking behavior of a silty clay. <i>Science of the Total Environment</i> , 2022, 837, 155788.	3.9	13
128	Experimental study on uplift behavior of shallow anchor plates in geogrid-reinforced soil. <i>Geotextiles and Geomembranes</i> , 2022, 50, 994-1003.	2.3	13
129	Effect of wetting-drying cycles on soil desiccation cracking behaviour. <i>E3S Web of Conferences</i> , 2016, 9, 12003.	0.2	12
130	Studying the effect of drying on soil hydro-mechanical properties using micro-penetration method. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	12
131	An Fiber Bragg Grating-Based Monitoring System for Slope Deformation Studies in Geotechnical Centrifuges. <i>Sensors</i> , 2019, 19, 1591.	2.1	11
132	Pipeline leakage monitoring experiments based on evaporation-enhanced FBG temperature sensing technology. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2691.	1.9	11
133	A long term evaluation of circular mat foundations on clay deposits using fractional derivatives. <i>Computers and Geotechnics</i> , 2018, 94, 72-82.	2.3	10
134	Negative Pore Water Pressure in Aquitard Enhances Land Subsidence: Field, Laboratory, and Numerical Evidence. <i>Water Resources Research</i> , 2022, 58, .	1.7	10
135	Effect of sand grain size and boundary condition on the swelling behavior of bentonite-sand mixtures. <i>Acta Geotechnica</i> , 2021, 16, 2759-2773.	2.9	9
136	Experimental Research on Strain Transfer Behavior of Fiber-Optic Cable Embedded in Soil Using Distributed Strain Sensing. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	9
137	Bending of a rectangular plate resting on a fractionalized Zener foundation. <i>Structural Engineering and Mechanics</i> , 2014, 52, 1069-1084.	1.0	9
138	Investigating Soil Desiccation Cracking Using an Infrared Thermal Imaging Technique. <i>Water Resources Research</i> , 2022, 58, .	1.7	9
139	Experimental and numerical investigation of the effect of the urban heat island on slope stability. <i>Bulletin of Engineering Geology and the Environment</i> , 2013, 72, 303-310.	1.6	8
140	In-situ soil dry density estimation using actively heated fiber-optic FBG method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 185, 110037.	2.5	8
141	Experimental simulation of boundary condition effects on bentonite swelling in HLW repositories. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	7
142	Laboratory characterization of sandy soil water content during drying process using electrical resistivity/resistance method (ERM). <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 4411-4427.	1.6	7
143	Performance evaluation of soil-embedded plastic optical fiber sensors for geotechnical monitoring. <i>Smart Structures and Systems</i> , 2016, 17, 297-311.	1.9	7
144	Evaluation of land subsidence potential by linking subsurface deformation to microstructure characteristics in Suzhou, China. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 2587-2600.	1.6	6

#	ARTICLE	IF	CITATIONS
145	Modeling of Drying-Induced Soil Curling Phenomenon. <i>Water Resources Research</i> , 2022, 58, .	1.7	6
146	Quantifying the spatio-temporal variability of total water content in seasonally frozen soil using actively heated fiber Bragg grating sensing. <i>Journal of Hydrology</i> , 2022, 606, 127386.	2.3	6
147	Forecasting reservoir-induced landslide deformation using genetic algorithm enhanced multivariate Taylor series Kalman filter. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	6
148	Error analysis and experimental research of joint fiber-optic displacement sensor based on shear lag model. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 186, 110106.	2.5	5
149	Soil micro-penetration resistance as an index of its infiltration processes during rainfall. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1580-1587.	3.7	5
150	Estimation of land subsidence potential via distributed fiber optic sensing. <i>Engineering Geology</i> , 2022, 298, 106540.	2.9	5
151	Monitoring infiltration of capillary barrier with actively heated fibre Bragg gratings. <i>Environmental Geotechnics</i> , 0, , 1-16.	1.3	5
152	Toward establishing a multiparameter approach for monitoring pipeline geohazards via accompanying telecommunications dark fiber. <i>Optical Fiber Technology</i> , 2022, 68, 102765.	1.4	4
153	Desiccation-induced curling of mud layers: Field observations and experimental insights. <i>Engineering Geology</i> , 2022, 296, 106458.	2.9	4
154	Could fiber strains affect DAS amplitude response?. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 189, 110428.	2.5	4
155	Analysis method for spatial movement of gravels in mixed soil during triaxial testing. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, , 1.	1.6	3
156	Characterization of Soil Moisture Distribution and Movement Under the Influence of Watering-dewatering Using AHFO and BOTDA Technologies. <i>Environmental and Engineering Geoscience</i> , 2019, 25, 189-202.	0.3	3
157	Evaluating three measurement methods of soil ground heat flux based on actively heated distributed temperature sensing technology. <i>Engineering Geology</i> , 2022, 303, 106649.	2.9	3
158	Particle Extraction and Quantitative Analysis of Soil Microstructure from SEM Using Spatial Analyst Tools in ArcGIS. , 2009, , .		2
159	Quantification and Characterization of Temperature Effect on Desiccation Crack Network in Soil. , 2013, , .		2
160	BOTDA based investigation on the effects of closure strips in bottom plate during the construction of navigation lock. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 117, 67-72.	2.5	2
161	An experimental application of electrical resistivity/resistance method (ERM) to characterize the evaporation process of sandy soil. <i>Physics and Chemistry of the Earth</i> , 2020, 117, 102873.	1.2	2
162	Distributed acoustic sensing (DAS) for geomechanics characterization: A concise review. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 042033.	0.2	2

#	ARTICLE	IF	CITATIONS
163	Development and Application of Fiber-Optic Sensing Technology for Monitoring Soil Moisture Field. <i>Frontiers in Sensors</i> , 2022, 2, .	1.7	2
164	Laboratory Studies on Slope Stability Monitoring Using Distributed Fiber-Optic Sensing Technologies. , 2014, , 625-629.		1
165	Fractional calculus-based compression modeling of soft clay. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 417-420.	0.2	1
166	Experimental study of moisture evaporation process with different soil characteristics. <i>Japanese Geotechnical Society Special Publication</i> , 2019, 7, 78-83.	0.2	1
167	Influence of fiber-optic cable structure, sand density, and acoustic frequency on DAS amplitude response: Preliminary results. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 062031.	0.2	1
168	Quantifying Fiber-Optic Cableâ€™Soil Interfacial Behavior Toward Distributed Monitoring of Land Subsidence. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 759-762.	0.0	1
169	Fatigue characteristics of distributed sensing cables under low cycle elongation. <i>Smart Structures and Systems</i> , 2016, 18, 1203-1215.	1.9	1
170	A Dual-Probe Heat Pulse Approach using Heated Fiber-Optic Temperature Sensing. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 022070.	0.2	1
171	Complex Deformation Monitoring of Shield Tunnel Segment Joints Using Distributed Fiber Optic Sensing Technology: Experimental Verification. <i>IEEE Sensors Journal</i> , 2022, 22, 3236-3245.	2.4	1
172	Closure to â€™Experimental Investigation of Pullout Behavior of Fiber-Reinforced Polymer Reinforcements in Sandâ€™ by Cheng-Cheng Zhang, Hong-Hu Zhu, Bin Shi, Fang-Dong Wu, and Jian-Hua Yin. <i>Journal of Composites for Construction</i> , 2015, 19, 07015005.	1.7	0
173	Distributed Fiber Optic Sensing of Land Deformation: Methods and Case Studies. , 2019, , .		0
174	DFOS-based association rules analysis on the multi-fields information of Majiagou landslide. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 570, 042023.	0.2	0
175	Fiber Optic Monitoring and Forecasting of Reservoir Landslides. <i>Lecture Notes in Civil Engineering</i> , 2021, , 1-13.	0.3	0
176	DFOS Technology-Based Landslide Monitoring: The Majiagou Landslide Case Study (China). , 2017, , 317-324.		0