

Chunshun Zhang

List of Publications by Year in descending order

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30
papers

952
citations

516215

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h-index

476904

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docs citations

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times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-related roughness classification and strength model of natural rock joint based on fuzzy comprehensive evaluation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 137, 104550.	2.6	139
2	Coupled seepage-damage effect in fractured rock masses: model development and a case study. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 144, 104822.	2.6	122
3	Effect of 2D spatial variability on slope reliability: A simplified FORM analysis. <i>Geoscience Frontiers</i> , 2018, 9, 1631-1638.	4.3	98
4	Reliability-based design for geotechnical engineering: An inverse FORM approach for practice. <i>Computers and Geotechnics</i> , 2019, 111, 22-29.	2.3	98
5	Probabilistic physical modelling of corroded cast iron pipes for lifetime prediction. <i>Structural Safety</i> , 2017, 64, 62-75.	2.8	63
6	Prediction of stress concentration factor of corrosion pits on buried pipes by least squares support vector machine. <i>Engineering Failure Analysis</i> , 2015, 55, 131-138.	1.8	62
7	New Observations on the Application of LS-SVM in Slope System Reliability Analysis. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	45
8	Dynamic compression characteristics of layered rock mass of significant strength changes in adjacent layers. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 353-365.	3.7	43
9	Leak Detection in Water Pipes Using Submersible Optical Optic-Based Pressure Sensor. <i>Sensors</i> , 2018, 18, 4192.	2.1	34
10	Deterioration of non-persistent rock joints: A focus on impact of freeze-thaw cycles. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104515.	2.6	33
11	Dynamic responses of high-speed railway transition zone with various subgrade fillings. <i>Computers and Geotechnics</i> , 2019, 108, 17-26.	2.3	31
12	Spatial variability effect of internal friction angle on the post-failure behavior of landslides using a random and non-Newtonian fluid based SPH method. <i>Geoscience Frontiers</i> , 2020, 11, 1107-1121.	4.3	25
13	Probabilistic failure investigation of small diameter cast iron pipelines for water distribution. <i>Engineering Failure Analysis</i> , 2020, 108, 104239.	1.8	24
14	China's early warning system progress. <i>Science</i> , 2019, 365, 332-332.	6.0	19
15	Introduction of the leak-before-break (LBB) concept for cast iron water pipes on the basis of laboratory experiments. <i>Urban Water Journal</i> , 2017, 14, 820-828.	1.0	18
16	An application of breakage mechanics for predicting energy-size reduction relationships in comminution. <i>Powder Technology</i> , 2016, 287, 121-130.	2.1	16
17	Temperature-dependent mechanical properties and crack propagation modes of 3D printed sandstones. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 146, 104868.	2.6	13
18	Dynamic performance of a deep buried pile-plank structure transition section for a high-speed railway—Field tests and numerical analyses. <i>Transportation Geotechnics</i> , 2020, 25, 100408.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Dynamic Response of a Bridge–Embankment Transition with Emphasis on the Coupled Train–Track–Subgrade System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5982.	1.3	8
20	Time-Dependent Deformation Behavior of Completely Weathered Granite Subjected to Wetting Immersion. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6373-6391.	2.6	8
21	Experimental and simulation study on rock-breaking efficiency of disc cutters on composite rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 153, 105089.	2.6	8
22	Implicit integration of simple breakage constitutive model for crushable granular materials: A numerical test. <i>Computers and Geotechnics</i> , 2017, 82, 43-53.	2.3	7
23	Deformation and strength properties of completely decomposed granite in a fault zone. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	7
24	Hyperbolic constitutive model to study cast iron pipes in 3-D nonlinear finite element analyses. <i>Engineering Failure Analysis</i> , 2017, 75, 26-36.	1.8	5
25	Reducing Compressibility of the Expansive Soil by Microbiological-Induced Calcium Carbonate Precipitation. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-12.	0.4	5
26	Evaluation of the performance of a breakage model for high porosity Haubourdin chalk. <i>Computers and Geotechnics</i> , 2017, 90, 113-119.	2.3	4
27	Effect of loading rates and stress paths on rock strengths: a novel approach based on experimental evidence. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	3
28	A model of stress concentration factors for external corrosion patches on large-diameter underground cast iron pipes. <i>Sustainable and Resilient Infrastructure</i> , 2020, , 1-12.	1.7	2
29	Evolution of Shear Surface Morphology of Jointed Rock Masses Based on Gaussian Filtering Method under Freeze-Thaw Cycles. <i>Materials</i> , 2022, 15, 4228.	1.3	1
30	Study on Response Acceleration Methods for Transverse Seismic Response Analysis of Tunnel Structures. <i>Indian Geotechnical Journal</i> , 0, , .	0.7	0