Mingliang Zhou

List of Publications by Year
in descending order

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50 papers	1,236 citations	331259 21 h-index	395343 33 g-index
50 all docs	50 docs citations	50 times ranked	1017 citing authors

#	Article	IF	Citations
1	Rock mass fracture maps prediction based on spatiotemporal image sequence modeling. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 470-488.	6.3	5
2	Bayesian estimation of soil-water characteristic curves. Canadian Geotechnical Journal, 2022, 59, 569-582.	1.4	4
3	Micromixing performance of the teethed high shear mixer under semi-batch operation. Frontiers of Chemical Science and Engineering, 2022, 16, 546-559.	2.3	9
4	Machine learning-based classification of rock discontinuity trace: SMOTE oversampling integrated with GBT ensemble learning. International Journal of Mining Science and Technology, 2022, 32, 309-322.	4.6	48
5	Comparison and estimation on deagglomeration performance of batch high shear mixers for nanoparticle suspensions. Chemical Engineering Journal, 2022, 429, 132420.	6.6	6
6	Multi-scale pullout behaviour of strip anchor plates embedded in marine hydrate bearing sediments. Computers and Geotechnics, 2022, 141, 104472.	2.3	3
7	Behavior of steel clamp confined brick aggregate concrete circular columns subjected to axial compression. Case Studies in Construction Materials, 2022, 16, e00815.	0.8	4
8	A hierarchical DCNN-based approach for classifying imbalanced water inflow in rock tunnel faces. Tunnelling and Underground Space Technology, 2022, 122, 104399.	3.0	6
9	Face stability analysis of circular tunnels in layered rock masses using the upper bound theorem. Journal of Rock Mechanics and Geotechnical Engineering, 2022, 14, 1836-1848.	3.7	17
10	Efficient back analysis of multiphysics processes of gas hydrate production through artificial intelligence. Fuel, 2022, 323, 124162.	3.4	2
11	Integrated pixel-level CNN-FCN crack detection via photogrammetric 3D texture mapping of concrete structures. Automation in Construction, 2022, 140, 104388.	4.8	34
12	Prediction of optimum TBM penetration strategy with minimum energy consumption in hard rocks. Computers and Geotechnics, 2022, 148, 104844.	2.3	7
13	DEM-Based Study on the Mechanical Behaviors of Pore-Filling MHBS under Drained True Triaxial Conditions Varying the Intermediate Stress Ratio of Constant Mean Effective Stresses. International Journal of Geomechanics, 2022, 22, .	1.3	2
14	Novel SfM-DLT method for metro tunnel 3D reconstruction and Visualization. Underground Space (China), 2021, 6, 134-141.	3.4	28
15	An incident of water and soil gushing in a metro tunnel due to high water pressure in sandy silt. Engineering Failure Analysis, 2021, 121, 105196.	1.8	22
16	Quantification of water inflow in rock tunnel faces via convolutional neural network approach. Automation in Construction, 2021, 123, 103526.	4.8	38
17	Automated extraction and evaluation of fracture trace maps from rock tunnel face images via deep learning. International Journal of Rock Mechanics and Minings Sciences, 2021, 142, 104745.	2.6	71
18	A Novel Approach to Automated 3D Spalling Defects Inspection in Railway Tunnel Linings Using Laser Intensity and Depth Information. Sensors, 2021, 21, 5725.	2.1	21

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19	Dynamic behavior of cement-stabilized organic-matter-disseminated sand under cyclic triaxial condition. Soil Dynamics and Earthquake Engineering, 2021, 147, 106777.	1.9	16
20	Effect of ground surface surcharge on deformational performance of tunnel in spatially variable soil. Computers and Geotechnics, 2021, 136, 104229.	2.3	74
21	Towards semi-automatic discontinuity characterization in rock tunnel faces using 3D point clouds. Engineering Geology, 2021, 291, 106232.	2.9	36
22	Multi-source data driven method for assessing the rock mass quality of a NATM tunnel face via hybrid ensemble learning models. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104914.	2.6	22
23	A deep learning-based approach for refined crack evaluation from shield tunnel lining images. Automation in Construction, 2021, 132, 103934.	4.8	44
24	Probabilistic Analysis of Tunnel Roof Deflection under Sequential Excavation Using ANN-Based Monte Carlo Simulation and Simplified Reliability Approach. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 04021043.	1.1	8
25	Estimation of Damage Induced by Single-Hole Rock Blasting: A Review on Analytical, Numerical, and Experimental Solutions. Energies, 2021, 14, 29.	1.6	17
26	Flexural Behavior of Natural Hybrid FRP-Strengthened RC Beams and Strain Measurements Using BOTDA. Polymers, 2021, 13, 3604.	2.0	8
27	Geomechanical responses during depressurization of hydrate-bearing sediment formation over a long methane gas production period. Geomechanics for Energy and the Environment, 2020, 23, 100111.	1.2	17
28	Meta-modelling of coupled thermo-hydro-mechanical behaviour of hydrate reservoir. Computers and Geotechnics, 2020, 128, 103848.	2.3	29
29	Towards Automated 3D Inspection of Water Leakages in Shield Tunnel Linings Using Mobile Laser Scanning Data. Sensors, 2020, 20, 6669.	2.1	41
30	Image-based segmentation and quantification of weak interlayers in rock tunnel face via deep learning. Automation in Construction, 2020, 120, 103371.	4.8	30
31	Dynamic Responses of Soils around a One-Hole Double-Track Tunnel with the Metro Train Meeting. Shock and Vibration, 2020, 2020, 1-16.	0.3	7
32	Upscaling techniques for fully coupled THM simulation and application to hydrate gas production tests. Computers and Geotechnics, 2020, 124, 103596.	2.3	15
33	A discussion of â€œa simplified prediction method for evaluating tunnel displacement induced by laterally adjacent excavationsâ€• by Zheng et al. (2018). Computers and Geotechnics, 2019, 109, 293-296.	2.3	4
34	Observations of a Kineticâ€Scale Magnetic Hole in a Reconnection Diffusion Region. Geophysical Research Letters, 2019, 46, 6248-6257.	1.5	22
35	Random evolution of multiple cracks and associated mechanical behaviors of segmental tunnel linings using a multiscale modeling method. Tunnelling and Underground Space Technology, 2019, 90, 220-230.	3.0	38
36	Upscaled Anisotropic Methane Hydrate Critical State Model for Turbidite Hydrateâ€Bearing Sediments at East Nankai Trough. Journal of Geophysical Research: Solid Earth, 2018, 123, 6277-6298.	1.4	27

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37	Lysine succinylation of Mycobacterium tuberculosis isocitrate lyase (ICL) fine-tunes the microbial resistance to antibiotics. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1030-1041.	2.0	18
38	Mycobacterium tuberculosis PPE44 (Rv2770c) is involved in response to multiple stresses and promotes the macrophage expression of IL-12 p40 and IL-6 via the p38, ERK, and NF-Î²B signaling axis. International Immunopharmacology, 2017, 50, 319-329.	1.7	26
39	Simultaneous Determination of Peroxide Hydrogen and Ascorbic Acid by Capillary Electrophoresis with Platinum Nanoparticles Modified Microâ€disk Electrode. Electroanalysis, 2017, 29, 2483-2490.	1.5	13
40	The Global Reciprocal Reprogramming between Mycobacteriophage SWU1 and Mycobacterium Reveals the Molecular Strategy of Subversion and Promotion of Phage Infection. Frontiers in Microbiology, 2016, 7, 41.	1.5	8
41	Mycobacteriophage SWU1 gp39 can potentiate multiple antibiotics against Mycobacterium via altering the cell wall permeability. Scientific Reports, 2016, 6, 28701.	1.6	32
42	Proteome-wide Lysine Glutarylation Profiling of theMycobacterium tuberculosisH37Rv. Journal of Proteome Research, 2016, 15, 1379-1385.	1.8	44
43	Proteasome Accessory Factor C (pafC) Is a novel gene Involved in Mycobacterium Intrinsic Resistance to broad-spectrum antibiotics - Fluoroquinolones. Scientific Reports, 2015, 5, 11910.	1.6	10
44	ErbB2-intronic MicroRNA-4728: a novel tumor suppressor and antagonist of oncogenic MAPK signaling. Cell Death and Disease, 2015, 6, e1742-e1742.	2.7	31
45	Proteome-wide lysine acetylation profiling of the human pathogen Mycobacterium tuberculosis. International Journal of Biochemistry and Cell Biology, 2015, 59, 193-202.	1.2	148
46	Numerical Study on Eastern Nankai Trough gas Hydrate Production Test. , 2014, , .		21
47	Numerical Analysis of Wellbore Behaviour during Methane Gas Recovery from Hydrate Bearing Sediments. , 2014, , .		5
48	Effects of methane hydrate gas production on mechanical responses of hydrate bearing sediments in local production region at Eastern Nankai Trough. , 2014, , 1707-1712.		1
49	Multiscale monitoring of interface failure of brittle coating/ductile substrate systems: A non-destructive evaluation method combined digital image correlation with acoustic emission. Journal of Applied Physics, 2011, 110, .	1.1	19
50	Technique for Preparing Ultrafine Nanocrystalline Bulk Material of Pure Rare-Earth Metals. Advanced Materials, 2006, 18, 1210-1215.	11.1	78