

Xin Huang

List of Publications by Year in descending order

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35
papers

816
citations

623188

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all docs

36
docs citations

36
times ranked

395
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Block Theory for the Stability Analysis of Blocky Rock Mass Systems Under Seismic Loads. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 2747-2769.	2.6	2
2	Exploring the three-dimensional response of water storage and sewage tunnel based on 3D finite element modeling. <i>Tunnelling and Underground Space Technology</i> , 2022, 120, 104269.	3.0	5
3	Study of the cutter-rock interaction mechanism during TBM tunnelling in mudstone: insight from DEM simulations of rotatory cutting tests. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, .	1.6	6
4	Non-uniqueness of critical solid fraction considering boundary conditions and strain-rate effects. <i>Particuology</i> , 2021, 54, 37-49.	2.0	0
5	Identification of jamming transition: a critical appraisal. <i>Granular Matter</i> , 2021, 23, 1.	1.1	5
6	A generalized joint pyramid method for removability analysis of rock blocks: Theoretical formulation and numerical implementation. <i>Computers and Geotechnics</i> , 2021, 132, 103972.	2.3	5
7	The role of TBM asymmetric tail-grouting on surface settlement in coarse-grained soils of urban area: Field tests and FEA modelling. <i>Tunnelling and Underground Space Technology</i> , 2021, 111, 103857.	3.0	64
8	On the morphology and pressure-filtration characteristics of filter cake formation: Insight from coupled CFD–DEM simulations. <i>Tunnelling and Underground Space Technology</i> , 2021, 111, 103856.	3.0	15
9	Research on Comprehensive Evaluation of the Operation and Maintenance Status of Urban Deep Metro Station. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 072004.	0.2	0
10	DEM analysis of monotonic and cyclic behaviors of sand based on critical state soil mechanics framework. <i>Computers and Geotechnics</i> , 2020, 128, 103787.	2.3	68
11	Characterizing stress variability within granular samples upon liquefaction. <i>Computers and Geotechnics</i> , 2020, 127, 103771.	2.3	4
12	Discrete element modeling of shear wave propagation using bender elements in confined granular materials of different grain sizes. <i>Computers and Geotechnics</i> , 2020, 125, 103672.	2.3	20
13	Structural behavior of segmental tunnel linings for a large stormwater storage tunnel: Insight from full-scale loading tests. <i>Tunnelling and Underground Space Technology</i> , 2020, 99, 103376.	3.0	12
14	Energy dissipation in soil samples during cyclic triaxial simulations. <i>Computers and Geotechnics</i> , 2020, 121, 103481.	2.3	10
15	Exploring the progressive failure characteristics of a large special-shaped shield tunnel lining based on “standing” prototype loading tests. <i>Tunnelling and Underground Space Technology</i> , 2019, 93, 103107.	3.0	12
16	A tensor-based analysis of stress variability in granular media subjected to various loading conditions. <i>Powder Technology</i> , 2019, 356, 581-593.	2.1	7
17	Structural degradation of sands during cyclic liquefaction: Insight from DEM simulations. <i>Computers and Geotechnics</i> , 2019, 114, 103139.	2.3	26
18	Application of block theory for evaluating face stability under disc cutters loading of TBM, case study of a water-conveyance tunnel project. <i>Tunnelling and Underground Space Technology</i> , 2019, 90, 249-263.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Identification and Visualization of the Full-Ring Deformation Characteristics of a Large Stormwater Sewage and Storage Tunnel Using Terrestrial Laser Scanning Technology. <i>Energies</i> , 2019, 12, 1304.	1.6	6
20	Exploring the three-dimensional response of a water storage and sewage tunnel based on full-scale loading tests. <i>Tunnelling and Underground Space Technology</i> , 2019, 88, 156-168.	3.0	25
21	Jamming analysis on the behaviours of liquefied sand and virgin sand subject to monotonic undrained shearing. <i>Computers and Geotechnics</i> , 2019, 111, 112-125.	2.3	19
22	“Standing” full-scale loading tests on the mechanical behavior of a special-shape shield lining under shallowly-buried conditions. <i>Tunnelling and Underground Space Technology</i> , 2019, 86, 34-50.	3.0	24
23	Slurry filtration process and filter cake formation during shield tunnelling: Insight from coupled CFD-DEM simulations of slurry filtration column test. <i>Tunnelling and Underground Space Technology</i> , 2019, 87, 64-77.	3.0	38
24	Mechanical behaviour of segmental lining of a sub-rectangular shield tunnel under self-weight. <i>Tunnelling and Underground Space Technology</i> , 2018, 74, 131-144.	3.0	29
25	Capturing the cracking characteristics of concrete lining during prototype tests of a special-shaped tunnel using 3D DIC photogrammetry. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, s179-s199.	1.0	10
26	DEM analysis of the onset of flow deformation of sands: linking monotonic and cyclic undrained behaviours. <i>Acta Geotechnica</i> , 2018, 13, 1061-1074.	2.9	37
27	Analysis on the Evolution of Rock Block Behavior During TBM Tunneling Considering the TBM-Block Interaction. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 2237-2263.	2.6	20
28	Prototype Loading Tests on Full-Ring Segmental Lining of Rectangular Shield Tunnel. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2018, 23, 746-757.	0.5	7
29	Partition of the contact force network obtained in discrete element simulations of element tests. <i>Computational Particle Mechanics</i> , 2017, 4, 145-152.	1.5	14
30	Application of a vertex chain operation algorithm on topological analysis of three-dimensional fractured rock masses. <i>Frontiers of Structural and Civil Engineering</i> , 2017, 11, 187-208.	1.2	5
31	Use of elastic stability analysis to explain the stress-dependent nature of soil strength. <i>Royal Society Open Science</i> , 2015, 2, 150038.	1.1	4
32	Temporal variation of contact networks in granular materials. <i>Granular Matter</i> , 2014, 16, 41-54.	1.1	22
33	Exploring the influence of interparticle friction on critical state behaviour using DEM. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1276-1297.	1.7	159
34	Effect of sample size on the response of DEM samples with a realistic grading. <i>Particuology</i> , 2014, 15, 107-115.	2.0	110
35	Challenges of simulating undrained tests using the constant volume method in DEM. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	13