

Xin Huang

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

816
citations

623188

14
h-index

500791

28
g-index

36
all docs

36
docs citations

36
times ranked

395
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the influence of interparticle friction on critical state behaviour using DEM. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 1276-1297.	1.7	159
2	Effect of sample size on the response of DEM samples with a realistic grading. Particuology, 2014, 15, 107-115.	2.0	110
3	DEM analysis of monotonic and cyclic behaviors of sand based on critical state soil mechanics framework. Computers and Geotechnics, 2020, 128, 103787.	2.3	68
4	The role of TBM asymmetric tail-grouting on surface settlement in coarse-grained soils of urban area: Field tests and FEA modelling. Tunnelling and Underground Space Technology, 2021, 111, 103857.	3.0	64
5	Slurry filtration process and filter cake formation during shield tunnelling: Insight from coupled CFD-DEM simulations of slurry filtration column test. Tunnelling and Underground Space Technology, 2019, 87, 64-77.	3.0	38
6	DEM analysis of the onset of flow deformation of sands: linking monotonic and cyclic undrained behaviours. Acta Geotechnica, 2018, 13, 1061-1074.	2.9	37
7	Mechanical behaviour of segmental lining of a sub-rectangular shield tunnel under self-weight. Tunnelling and Underground Space Technology, 2018, 74, 131-144.	3.0	29
8	Structural degradation of sands during cyclic liquefaction: Insight from DEM simulations. Computers and Geotechnics, 2019, 114, 103139.	2.3	26
9	Exploring the three-dimensional response of a water storage and sewage tunnel based on full-scale loading tests. Tunnelling and Underground Space Technology, 2019, 88, 156-168.	3.0	25
10	“Standing” full-scale loading tests on the mechanical behavior of a special-shape shield lining under shallowly-buried conditions. Tunnelling and Underground Space Technology, 2019, 86, 34-50.	3.0	24
11	Temporal variation of contact networks in granular materials. Granular Matter, 2014, 16, 41-54.	1.1	22
12	Analysis on the Evolution of Rock Block Behavior During TBM Tunneling Considering the TBM-Block Interaction. Rock Mechanics and Rock Engineering, 2018, 51, 2237-2263.	2.6	20
13	Discrete element modeling of shear wave propagation using bender elements in confined granular materials of different grain sizes. Computers and Geotechnics, 2020, 125, 103672.	2.3	20
14	Jamming analysis on the behaviours of liquefied sand and virgin sand subject to monotonic undrained shearing. Computers and Geotechnics, 2019, 111, 112-125.	2.3	19
15	On the morphology and pressure-filtration characteristics of filter cake formation: Insight from coupled CFD-DEM simulations. Tunnelling and Underground Space Technology, 2021, 111, 103856.	3.0	15
16	Partition of the contact force network obtained in discrete element simulations of element tests. Computational Particle Mechanics, 2017, 4, 145-152.	1.5	14
17	Challenges of simulating undrained tests using the constant volume method in DEM. AIP Conference Proceedings, 2013, , .	0.3	13
18	Application of block theory for evaluating face stability under disc cutters loading of TBM, case study of a water-conveyance tunnel project. Tunnelling and Underground Space Technology, 2019, 90, 249-263.	3.0	13

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Energy dissipation in soil samples during cyclic triaxial simulations. <i>Computers and Geotechnics</i> , 2020, 121, 103481.	2.3	10
23	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
24	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
25	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
26	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
27	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
28	Identification of jamming transition: a critical appraisal. <i>Granular Matter</i> , 2021, 23, 1.	1.1	5
29	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
30	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
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	Characterizing stress variability within granular samples upon liquefaction. <i>Computers and Geotechnics</i> , 2020, 127, 103771.	2.3	4
33	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
34	Non-uniqueness of critical solid fraction considering boundary conditions and strain-rate effects. <i>Particuology</i> , 2021, 54, 37-49.	2.0	0
35	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