

Rui Wang

List of Publications by Year in descending order

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44
papers

992
citations

430442

18
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433756

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47
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47
docs citations

47
times ranked

397
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified plasticity model for large post-liquefaction shear deformation of sand. <i>Computers and Geotechnics</i> , 2014, 59, 54-66.	2.3	117
2	DEM study of fabric features governing undrained post-liquefaction shear deformation of sand. <i>Acta Geotechnica</i> , 2016, 11, 1321-1337.	2.9	94
3	Finite element model for piles in liquefiable ground. <i>Computers and Geotechnics</i> , 2016, 72, 1-14.	2.3	63
4	Fabric characteristics and processes influencing the liquefaction and re-liquefaction of sand.. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 125, 105720.	1.9	55
5	An anisotropic plasticity model incorporating fabric evolution for monotonic and cyclic behavior of sand. <i>Acta Geotechnica</i> , 2021, 16, 43-65.	2.9	55
6	Evolution of Various Fabric Tensors for Granular Media toward the Critical State. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	53
7	Fabric evolution and dilatancy within anisotropic critical state theory guided and validated by DEM. <i>International Journal of Solids and Structures</i> , 2020, 188-189, 210-222.	1.3	53
8	Centrifuge shaking table tests on 4×4 pile groups in liquefiable ground. <i>Acta Geotechnica</i> , 2018, 13, 1405-1418.	2.9	44
9	Effects of layered liquefiable deposits on the seismic response of an underground structure. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 113, 124-135.	1.9	38
10	Numerical analysis of the seismic inertial and kinematic effects on pile bending moment in liquefiable soils. <i>Acta Geotechnica</i> , 2017, 12, 773-791.	2.9	37
11	Numerical analysis of LEAP centrifuge tests on sloping liquefiable ground: Influence of dilatancy and post-liquefaction shear deformation. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 137, 106288.	1.9	30
12	Dependency of Dilatancy Ratio on Fabric Anisotropy in Granular Materials. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	1.6	27
13	Seismic analysis of stone column improved liquefiable ground using a plasticity model for coarse-grained soil. <i>Computers and Geotechnics</i> , 2020, 125, 103690.	2.3	25
14	Seismic performance of block-type quay walls with liquefiable calcareous sand backfill. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106092.	1.9	25
15	Centrifuge Shaking Table Tests on Precast Underground Structure's Superstructure System in Liquefiable Ground. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	25
16	Three-dimensional anisotropic plasticity model for sand subjected to principal stress value change and axes rotation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 353-381.	1.7	22
17	Deformation of Granular Material under Continuous Rotation of Stress Principal Axes. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	20
18	Seismic response of high concrete face rockfill dams subjected to non-uniform input motion. <i>Acta Geotechnica</i> , 2019, 14, 83-100.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Evaluation of various seismic response analysis methods for underground structures in saturated sand. <i>Tunnelling and Underground Space Technology</i> , 2021, 110, 103803.	3.0	20
20	Influence of vertical ground motion on the seismic response of underground structures and underground-aboveground structure systems in liquefiable ground. <i>Tunnelling and Underground Space Technology</i> , 2022, 122, 104351.	3.0	20
21	Effect of nearby ground structures on the seismic response of underground structures in saturated sand. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 146, 106756.	1.9	19
22	3D DEM simulation of principal stress rotation in different planes of cross-anisotropic granular materials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 2227-2250.	1.7	18
23	Formulation of Anisotropic Strength Criteria for Cohesionless Granular Materials. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	13
24	Portable interactive visualization of large-scale simulations in geotechnical engineering using Unity3D. <i>Advances in Engineering Software</i> , 2020, 148, 102838.	1.8	13
25	Strength anisotropy of granular material consisting of perfectly round particles. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017, 41, 1758-1778.	1.7	11
26	Centrifuge shaking table tests on offshore wind turbine bucket foundation in mildly inclined liquefiable seabed. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 151, 107012.	1.9	11
27	Modeling Combined Fabric Evolution in an Anisometric Granular Material Driven by Particle-Scale X-Ray Measurements. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	10
28	Quantification of dilatancy during undrained cyclic loading and liquefaction. <i>Computers and Geotechnics</i> , 2020, 128, 103853.	2.3	9
29	Influence of small particle surface asperities on macro and micro mechanical behavior of granular material. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 961-978.	1.7	9
30	A constrained neural network model for soil liquefaction assessment with global applicability. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 1066-1082.	1.2	7
31	Large-scale seismic seafloor stability analysis in the South China Sea. <i>Ocean Engineering</i> , 2021, 235, 109334.	1.9	7
32	Single Piles in Liquefiable Ground. <i>Springer Theses</i> , 2016, , .	0.0	6
33	Rayleigh Wave-Shear Wave Coupling Mechanism for Large Lateral Deformation in Level Liquefiable Ground. <i>Computers and Geotechnics</i> , 2022, 143, 104631.	2.3	4
34	Three-Dimensional Finite Element Analysis of Underground Structures' Dynamic Response in Liquefiable Soil. , 2014, , .		3
35	Influence of Liquefaction History on Liquefaction Susceptibility. , 2018, , .		3
36	Solid-Fluid Coupled Numerical Analysis of Suction Caisson Installation in Sand. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 704.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Large wave flume tests on wave-induced response of sandy seabed adjacent a water intake. Ocean Engineering, 2020, 195, 106709.	1.9	2
38	DEM Simulation of Sand Liquefaction Under Partially Drained Conditions. Springer Series in Geomechanics and Geoengineering, 2018, , 165-168.	0.0	1
39	Evaluation of Seismic Response of Rectangular Underground Structures in Liquefiable Soils. Lecture Notes in Civil Engineering, 2021, , 755-762.	0.3	0
40	Drift Ratio Limit for the Seismic Design of Underground Structures. Springer Series in Geomechanics and Geoengineering, 2018, , 1201-1205.	0.0	0
41	Dynamic Response of Underground Structure Under Bidirectional Shaking in Layered Liquefiable Ground. Springer Series in Geomechanics and Geoengineering, 2018, , 1132-1135.	0.0	0
42	Post-liquefaction Cyclic Shear Strain: Phenomenon and Mechanism. , 2020, , 653-656.		0
43	LEAP-UCD-2017 Simulations at Tsinghua University. , 2020, , 581-594.		0
44	Deformation of granular soil under combination of principal stress value and direction change. Japanese Geotechnical Society Special Publication, 2020, 8, 480-484.	0.2	0