

Xilin Lu

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,059
citations

430874

18
h-index

434195

31
g-index

46
all docs

46
docs citations

46
times ranked

600
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle impact dampers: Past, present, and future. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2058.	4.0	151
2	Experimental study of the face stability of shield tunnel in sands under seepage condition. <i>Tunnelling and Underground Space Technology</i> , 2018, 74, 195-205.	6.2	117
3	Optimization design and experimental verification of track nonlinear energy sink for vibration control under seismic excitation. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2033.	4.0	80
4	Shaking table test and numerical simulation of an RC frame-core tube structure for earthquake-induced collapse. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1537-1556.	4.4	69
5	Shaking table test of the effects of multi-unit particle dampers attached to an MDOF system under earthquake excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 987-1000.	4.4	66
6	Homography-based structural displacement measurement for large structures using unmanned aerial vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1114-1128.	9.8	52
7	Computation of the Minimum Limit Support Pressure for the Shield Tunnel Face Stability Under Seepage Condition. <i>International Journal of Civil Engineering</i> , 2017, 15, 849-863.	2.0	46
8	Numerical solutions of strain localization with nonlocal softening plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 3702-3711.	6.6	33
9	Preliminary Study on the Damping Effect of a Lateral Damping Buffer under a Debris Flow Load. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 201.	2.5	32
10	Upper Bound Solution for the Face Stability of Shield Tunnel below the Water Table. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	29
11	Physical model tests and discrete element simulation of shield tunnel face stability in anisotropic granular media. <i>Acta Geotechnica</i> , 2020, 15, 3017-3026.	5.7	29
12	Strength reduction finite element analysis of a stability of large cross-river shield tunnel face with seepage. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 336-353.	2.1	26
13	Parametric studies of the performance of particle dampers under harmonic excitation. <i>Structural Control and Health Monitoring</i> , 2009, 18, n/a-n/a.	4.0	25
14	Face stability analysis of shallow shield tunneling in layered ground under seepage flow. <i>Tunnelling and Underground Space Technology</i> , 2022, 119, 104201.	6.2	25
15	The Onset of Strain Localization in Cross-Anisotropic Soils Under True Triaxial Condition. <i>Soils and Foundations</i> , 2011, 51, 693-700.	3.1	23
16	Discrete element modeling of static liquefaction of shield tunnel face in saturated sand. <i>Acta Geotechnica</i> , 2019, 14, 1643-1652.	5.7	20
17	Spectral analysis of nonlocal regularization in two-dimensional finite element models. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012, 36, 219-235.	3.3	19
18	Strength criterion for cross-anisotropic sand under general stress conditions. <i>Acta Geotechnica</i> , 2016, 11, 1339-1350.	5.7	19

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19	Static Liquefaction of Sands under Isotropically and K0-Consolidated Undrained Triaxial Conditions. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	3.0	16
20	Modeling the static liquefaction of unsaturated sand containing gas bubbles. <i>Soils and Foundations</i> , 2018, 58, 122-133.	3.1	16
21	Non-coaxial elasto-plasticity model and bifurcation prediction of shear banding in sands. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010, 34, 906-919.	3.3	14
22	Characterization of the constitutive behavior of municipal solid waste considering particle compressibility. <i>Waste Management</i> , 2017, 69, 3-12.	7.4	14
23	Regularized finite element modeling of progressive failure in soils within nonlocal softening plasticity. <i>Computational Mechanics</i> , 2018, 62, 347-358.	4.0	14
24	Influences of loading direction and intermediate principal stress ratio on the initiation of strain localization in cross-anisotropic sand. <i>Acta Geotechnica</i> , 2018, 13, 619-633.	5.7	13
25	Centrifuge model test and limit equilibrium analysis of the stability of municipal solid waste slopes. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 3011-3021.	3.5	13
26	Prediction of plane strain undrained diffuse instability and strain localization with non-coaxial plasticity. <i>Soils and Foundations</i> , 2014, 54, 1070-1080.	3.1	11
27	Predicting the initiation of static liquefaction of cross-anisotropic sands under multiaxial stress conditions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017, 41, 1724-1740.	3.3	11
28	Implicit gradient softening plasticity for the modeling of strain localization in soils. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112934.	6.6	10
29	Discrete-Element Simulation of Scaling Effect of Strain Localization in Dense Granular Materials. <i>International Journal of Geomechanics</i> , 2019, 19, .	2.7	9
30	Responses of Liquefiable Soils in Pile Group Foundations of Tall Buildings from Shaking Table Tests. <i>Journal of Asian Architecture and Building Engineering</i> , 2016, 15, 311-318.	2.0	8
31	A shear hardening plasticity model with nonlinear shear strength criterion for municipal solid waste. <i>Computers and Geotechnics</i> , 2018, 104, 207-215.	4.7	8
32	Two-dimensional discrete element simulation of the mechanical behavior and strain localization of anisotropic dense sands. <i>Granular Matter</i> , 2019, 21, 1.	2.2	8
33	Visual-inertial structural acceleration measurement. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1146-1159.	9.8	8
34	Nonlocal regularized numerical analyses for passive failure of tunnel head in strain-softening soils. <i>Computers and Geotechnics</i> , 2022, 148, 104834.	4.7	7
35	Length Scales Interaction in Nonlocal Plastic Strain Localization of Bars of Varying Section. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 1036-1042.	2.9	3
36	Strain localization criteria for viscoplastic geomaterials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 717-738.	3.3	3

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37	Instability of sands under axisymmetric proportional strain and stress loadings. <i>European Journal of Environmental and Civil Engineering</i> , 2019, 23, 1294-1310.	2.1	2
38	Microscopic and macroscopic numerical simulation of the progressive failure of granular materials. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2022, 52, 1022-1034.	0.5	2
39	Simulation of heterogeneous breakage in sand based on full-field X-ray tomography measurements. <i>Computers and Geotechnics</i> , 2022, 147, 104746.	4.7	2
40	Experimental Studies and Constitutive Modeling of Static Liquefaction Instability in Sand-Clay Mixtures. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	2
41	Centrifuge Model Test on the Settlement of Valley-Type Loess Filled after Construction and Subjected to Rainfall Infiltration. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-11.	0.7	1
42	Numerical implementation of a non-local Mohr-Coulomb model. , 2014, , 187-192.		1
43	Numerical Simulation of the Bearing Capacity of a Square Footing on Landfill. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 435-438.	0.1	0
44	Study on the physical and mechanical properties of bauxite residue by laboratory and field in-situ tests. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	0
45	Stability analysis of shield tunnel face under complex ground conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 072027.	0.3	0