# Xilin Lu

## List of Publications by Year in descending order

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|---|---|---|---|
| 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 | Microscopic and macroscopic numerical simulation of the progressive failure of granular materials. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2022, 52, 1022-1034. | 0.5 | 2 |
| 2 | Face stability analysis of shallow shield tunneling in layered ground under seepage flow. Tunnelling and Underground Space Technology, 2022, 119, 104201. | 6.2 | 25 |
| 3 | Strain localization criteria for viscoplastic geomaterials. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 717-738. | 3.3 | 3 |
| 4 | Visualâ€“inertial structural acceleration measurement. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1146-1159. | 9.8 | 8 |
| 5 | Simulation of heterogeneous breakage in sand based on full-field X-ray tomography measurements. Computers and Geotechnics, 2022, 147, 104746. | 4.7 | 2 |
| 6 | Nonlocal regularized numerical analyses for passive failure of tunnel head in strain-softening soils. Computers and Geotechnics, 2022, 148, 104834. | 4.7 | 7 |
| 7 | Experimental Studies and Constitutive Modeling of Static Liquefaction Instability in Sandâ€“Clay Mixtures. International Journal of Geomechanics, 2022, 22, . | 2.7 | 2 |
| 8 | Homographyâ€based structural displacement measurement for large structures using unmanned aerial vehicles. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1114-1128. | 9.8 | 52 |
| 9 | Centrifuge Model Test on the Settlement of Valley-Type Loess Filled after Construction and Subjected to Rainfall Infiltration. Advances in Civil Engineering, 2021, 2021, 1-11. | 0.7 | 1 |
| 10 | Study on the physical and mechanical properties of bauxite residue by laboratory and field in-situ tests. Environmental Earth Sciences, 2021, 80, 1. | 2.7 | 0 |
| 11 | Stability analysis of shield tunnel face under complex ground conditions. IOP Conference Series: Earth and Environmental Science, 2021, 861, 072027. | 0.3 | 0 |
| 12 | Strength reduction finite element analysis of a stability of large cross-river shield tunnel face with seepage. European Journal of Environmental and Civil Engineering, 2020, 24, 336-353. | 2.1 | 26 |
| 13 | Physical model tests and discrete element simulation of shield tunnel face stability in anisotropic granular media. Acta Geotechnica, 2020, 15, 3017-3026. | 5.7 | 29 |
| 14 | Implicit gradient softening plasticity for the modeling of strain localization in soils. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112934. | 6.6 | 10 |
| 15 | Centrifuge model test and limit equilibrium analysis of the stability of municipal solid waste slopes. Bulletin of Engineering Geology and the Environment, 2019, 78, 3011-3021. | 3.5 | 13 |
| 16 | Discrete element modeling of static liquefaction of shield tunnel face in saturated sand. Acta Geotechnica, 2019, 14, 1643-1652. | 5.7 | 20 |
| 17 | Two-dimensional discrete element simulation of the mechanical behavior and strain localization of anisotropic dense sands. Granular Matter, 2019, 21, 1. | 2.2 | 8 |
| 18 | Discrete-Element Simulation of Scaling Effect of Strain Localization in Dense Granular Materials. International Journal of Geomechanics, 2019, 19, . | 2.7 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Instability of sands under axisymmetric proportional strain and stress loadings. European Journal of Environmental and Civil Engineering, 2019, 23, 1294-1310. | 2.1 | 2 |
| 20 | Experimental study of the face stability of shield tunnel in sands under seepage condition. Tunnelling and Underground Space Technology, 2018, 74, 195-205. | 6.2 | 117 |
| 21 | Modeling the static liquefaction of unsaturated sand containing gas bubbles. Soils and Foundations, 2018, 58, 122-133. | 3.1 | 16 |
| 22 | Particle impact dampers: Past, present, and future. Structural Control and Health Monitoring, 2018, 25, e2058. | 4.0 | 151 |
| 23 | Regularized finite element modeling of progressive failure in soils within nonlocal softening plasticity. Computational Mechanics, 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. Acta Geotechnica, 2018, 13, 619-633. | 5.7 | 13 |
| 25 | A shear hardening plasticity model with nonlinear shear strength criterion for municipal solid waste. Computers and Geotechnics, 2018, 104, 207-215. | 4.7 | 8 |
| 26 | Numerical Simulation of the Bearing Capacity of a Quadrate Footing on Landfill. Springer Series in Geomechanics and Geoengineering, 2018, , 435-438. | 0.1 | 0 |
| 27 | Predicting the initiation of static liquefaction of crossâ€anisotropic sands under multiaxial stress conditions. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1724-1740. | 3.3 | 11 |
| 28 | Optimization design and experimental verification of track nonlinear energy sink for vibration control under seismic excitation. Structural Control and Health Monitoring, 2017, 24, e2033. | 4.0 | 80 |
| 29 | Characterization of the constitutive behavior of municipal solid waste considering particle compressibility. Waste Management, 2017, 69, 3-12. | 7.4 | 14 |
| 30 | Computation of the Minimum Limit Support Pressure for the Shield Tunnel Face Stability Under Seepage Condition. International Journal of Civil Engineering, 2017, 15, 849-863. | 2.0 | 46 |
| 31 | Preliminary Study on the Damping Effect of a Lateral Damping Buffer under a Debris Flow Load. Applied Sciences (Switzerland), 2017, 7, 201. | 2.5 | 32 |
| 32 | Shaking table test and numerical simulation of an RC frameâ€core tube structure for earthquakeâ€induced collapse. Earthquake Engineering and Structural Dynamics, 2016, 45, 1537-1556. | 4.4 | 69 |
| 33 | Responses of Liquefiable Soils in Pile Group Foundations of Tall Buildings from Shaking Table Tests. Journal of Asian Architecture and Building Engineering, 2016, 15, 311-318. | 2.0 | 8 |
| 34 | Strength criterion for cross-anisotropic sand under general stress conditions. Acta Geotechnica, 2016, 11, 1339-1350. | 5.7 | 19 |
| 35 | Static Liquefaction of Sands under Isotropically and K0-Consolidated Undrained Triaxial Conditions. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, . | 3.0 | 16 |
| 36 | Upper Bound Solution for the Face Stability of Shield Tunnel below the Water Table. Mathematical Problems in Engineering, 2014, 2014, 1-11. | 1.1 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Prediction of plane strain undrained diffuse instability and strain localization with non-coaxial plasticity. Soils and Foundations, 2014, 54, 1070-1080. | 3.1 | 11 |
| 38 | Numerical implementation of a non-local Mohr-Coulomb model. , 2014, , 187-192. | | 1 |
| 39 | Shaking table test of the effects of multiâ€unit particle dampers attached to an MDOF system under earthquake excitation. Earthquake Engineering and Structural Dynamics, 2012, 41, 987-1000. | 4.4 | 66 |
| 40 | Spectral analysis of nonlocal regularization in twoâ€dimensional finite element models. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 219-235. | 3.3 | 19 |
| 41 | The Onset of Strain Localization in Cross-Anisotropic Soils Under True Triaxial Condition. Soils and Foundations, 2011, 51, 693-700. | 3.1 | 23 |
| 42 | Nonâ€coaxial elastoâ€plasticity model and bifurcation prediction of shear banding in sands. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 906-919. | 3.3 | 14 |
| 43 | Length Scales Interaction in Nonlocal Plastic Strain Localization of Bars of Varying Section. Journal of Engineering Mechanics - ASCE, 2010, 136, 1036-1042. | 2.9 | 3 |
| 44 | Parametric studies of the performance of particle dampers under harmonic excitation. Structural Control and Health Monitoring, 2009, 18, n/a-n/a. | 4.0 | 25 |
| 45 | Numerical solutions of strain localization with nonlocal softening plasticity. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3702-3711. | 6.6 | 33 |