

# Zhigang Cao

## List of Publications by Year in descending order

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31  
papers

624  
citations

516710

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h-index

610901

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g-index

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31  
docs citations

31  
times ranked

352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Soil's Water Retention Curves of Road Base Aggregate with Various Clay Fine Contents. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3624.	2.5	3
2	Experimental investigation into the shakedown state of unsaturated road base aggregate at various fine contents and matric suctions. <i>Engineering Geology</i> , 2022, 306, 106744.	6.3	2
3	Solution of the Ultimate Bearing Capacity at the Tip of a Pile in Anisotropic Discontinuous Rock Mass Based on the Hoek-Brown Criterion. <i>International Journal of Geomechanics</i> , 2021, 21, .	2.7	5
4	Real-time monitoring for road-base quality with the aid of buried piezoelectric sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 2231-2243.	2.5	5
5	A constitutive model for the accumulated strain of unsaturated soil under high-cycle traffic loading. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 990-1004.	3.3	7
6	Analytical layer element with a circular cavity and its application in predicting ground vibrations from surface and underground moving sources. <i>Computers and Geotechnics</i> , 2021, 137, 104262.	4.7	6
7	Experimental study on particle breakage of carbonate gravels under cyclic loadings through large-scale triaxial tests. <i>Transportation Geotechnics</i> , 2021, 30, 100632.	4.5	22
8	Resilient behavior of coarse granular materials in three-dimensional stress state. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1280-1293.	2.8	15
9	Solution of the ultimate bearing capacity at the tip of a pile in inclined rocks based on the Hoek-Brown criterion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 125, 104140.	5.8	7
10	Resilient behavior of coarse granular materials in three dimensional anisotropic stress state. <i>Engineering Geology</i> , 2020, 279, 105848.	6.3	12
11	The effects of suction history on the cyclic behavior of unsaturated road base filling materials. <i>Engineering Geology</i> , 2020, 276, 105775.	6.3	8
12	Resilient and permanent deformation of unsaturated unbound granular materials under cyclic loading by the large-scale triaxial tests. <i>Acta Geotechnica</i> , 2020, 15, 3343-3356.	5.7	28
13	Nonstationary vibration responses of a three-dimensional tunnel-soil system excited by moving stochastic loads. <i>Computers and Geotechnics</i> , 2020, 125, 103658.	4.7	6
14	The wave function method for calculation of vibrations from a twin tunnel in a multi-layered half-space. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 125, 105716.	3.8	14
15	An analytical solution to investigate the dynamic impact of a moving surface load on a shallowly-buried tunnel. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 126, 105816.	3.8	6
16	Analytical wave function method for modelling a twin tunnel embedded in a saturated poroelastic full-space. <i>Computers and Geotechnics</i> , 2019, 114, 103114.	4.7	7
17	Analytical solution for calculating vibrations from twin circular tunnels. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 117, 312-327.	3.8	28
18	The influence of pore-fluid in the soil on ground vibrations from a tunnel embedded in a layered half-space. <i>Journal of Sound and Vibration</i> , 2018, 419, 227-248.	3.9	23

#	ARTICLE	IF	CITATIONS
19	Influence of Grain Gradation on Permanent Strain of Unbound Granular Materials under Low Confining Pressure and High-Cycle Loading. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	32
20	A combined method to predict the long-term settlements of roads on soft soil under cyclic traffic loadings. <i>Acta Geotechnica</i> , 2018, 13, 1215-1226.	5.7	26
21	Numerical analysis and comparison of soil freezing schemes for replacement of shield tail brush in long-distance tunnel engineering. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, s316-s332.	2.1	4
22	Long-term behavior of clay-fouled unbound granular materials subjected to cyclic loadings with different frequencies. <i>Engineering Geology</i> , 2018, 243, 118-127.	6.3	53
23	Long term cyclic behavior of unsaturated granular soils. <i>Transportation Geotechnics</i> , 2018, 17, 48-55.	4.5	24
24	Effects of moisture content on the cyclic behavior of crushed tuff aggregates by large-scale tri-axial test. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 95, 1-8.	3.8	48
25	Closed-Form Analytical Solution for Vibrations from a Tunnel Embedded in a Saturated Poroelastic Half-Space. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	25
26	An analytical model for vibration prediction of a tunnel embedded in a saturated full-space to a harmonic point load. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 86, 25-40.	3.8	25
27	Road surface permanent deformations with a shallowly buried steel-reinforced high-density polyethylene pipe under cyclic loading. <i>Geotextiles and Geomembranes</i> , 2016, 44, 28-38.	4.6	17
28	Dynamic response of a tunnel buried in a saturated poroelastic soil layer to a moving point load. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 77, 348-359.	3.8	34
29	Dynamic responses of a saturated poroelastic half-space generated by a moving truck on the uneven pavement. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 69, 172-181.	3.8	32
30	Effects of the dynamic wheel-rail interaction on the ground vibration generated by a moving train. <i>International Journal of Solids and Structures</i> , 2010, 47, 2246-2259.	2.7	43
31	Dynamic response of pavements on poroelastic half-space soil medium to a moving traffic load. <i>Computers and Geotechnics</i> , 2009, 36, 52-60.	4.7	57