

Shengli Chen

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,170
citations

361413

20
h-index

395702

33
g-index

52
all docs

52
docs citations

52
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact undrained elasto-plastic solution for cylindrical cavity expansion in modified Cam Clay soil. <i>Geotechnique</i> , 2012, 62, 447-456.	4.0	168
2	Exact drained solution for cylindrical cavity expansion in modified Cam Clay soil. <i>Geotechnique</i> , 2013, 63, 510-517.	4.0	128
3	Effects of scour-hole dimensions and soil stress history on the behavior of laterally loaded piles in soft clay under scour conditions. <i>Computers and Geotechnics</i> , 2017, 84, 198-209.	4.7	55
4	Undrained cylindrical cavity expansion in anisotropic critical state soils. <i>Geotechnique</i> , 2019, 69, 189-202.	4.0	48
5	Drained and undrained analyses of cylindrical cavity contractions by bounding surface plasticity. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1398-1411.	2.8	45
6	Three-dimensional time-harmonic Green's functions of saturated soil under buried loading. <i>Soil Dynamics and Earthquake Engineering</i> , 2007, 27, 448-462.	3.8	41
7	Closed-Form Elastoplastic Solution for the Wellbore Problem in Strain Hardening/Softening Rock Formations. <i>International Journal of Geomechanics</i> , 2012, 12, 494-507.	2.7	41
8	Wellbore stability analysis using strain hardening and/or softening plasticity models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 93, 260-268.	5.8	40
9	Effect of vertical load on the lateral response of offshore piles considering scour-hole geometry and stress history in marine clay. <i>Ocean Engineering</i> , 2018, 158, 64-77.	4.3	38
10	Analysis of cylindrical cavity expansion in anisotropic critical state soils under drained conditions. <i>Canadian Geotechnical Journal</i> , 2019, 56, 675-686.	2.8	35
11	Influences of axial load on the lateral response of single pile with integral equation method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012, 36, 1831-1845.	3.3	33
12	Poromechanics response of an inclined borehole subject to in-situ stress and finite length fluid discharge. <i>Journal of Mechanics of Materials and Structures</i> , 2010, 5, 47-66.	0.6	31
13	Evaluation of reservoir deformation induced by water injection in SAGD wells considering formation anisotropy, heterogeneity and thermal effect. <i>Journal of Petroleum Science and Engineering</i> , 2017, 157, 767-779.	4.2	30
14	Consolidation of a Finite Transversely Isotropic Soil Layer on a Rough Impervious Base. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 1279-1290.	2.9	29
15	The axisymmetric consolidation of a semi-infinite transversely isotropic saturated soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2005, 29, 1249-1270.	3.3	27
16	Cavity expansion in strain hardening frictional soils under drained condition. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 132-142.	3.3	24
17	Stress analysis of borehole subjected to fluid injection in transversely isotropic poroelastic medium. <i>Mechanics Research Communications</i> , 2016, 73, 63-75.	1.8	22
18	Influence of Pavement Roughness on Dynamic Stresses in Saturated Subsoil Subjected to Moving Traffic Loading. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	22

#	ARTICLE	IF	CITATIONS
19	A criterion for evaluating the efficiency of water injection in oil sand reservoirs. Journal of Petroleum Science and Engineering, 2017, 149, 322-330.	4.2	21
20	Note on the Interaction Factor for Two Laterally Loaded Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 1685-1690.	3.0	20
21	Integration of anisotropic modified Cam Clay model in finite element analysis: Formulation, validation, and application. Computers and Geotechnics, 2019, 116, 103198.	4.7	20
22	Two-pile interaction factor revisited. Canadian Geotechnical Journal, 2011, 48, 754-766.	2.8	17
23	A Numerical Study on Installation Effects and Long-Term Shaft Resistance of Pre-Bored Piles in Cohesive Soils. Transportation Research Record, 2019, 2673, 494-505.	1.9	17
24	Thermo-osmosis and mechano-caloric couplings on THM responses of porous medium under point heat source. Computers and Geotechnics, 2019, 112, 93-103.	4.7	17
25	Analysis of pile groups subjected to torsional loading. Computers and Geotechnics, 2016, 71, 115-123.	4.7	15
26	Three-dimensional analytical poromechanical solutions for an arbitrarily inclined borehole subjected to fluid injection. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180658.	2.1	15
27	Time-dependent behaviour of a rigid foundation on a transversely isotropic soil layer. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 937-952.	3.3	14
28	Analytical and Numerical Analyses of Tunnel Excavation Problem Using an Extended Drucker-Prager Model. Rock Mechanics and Rock Engineering, 2020, 53, 1777-1790.	5.4	14
29	Practical Analytical Approach for Estimating Long-Term and Set-Up Shaft Resistance of Prebored Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	14
30	Wave-Induced Dynamic Response in a Poroelastic Seabed. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	13
31	Dynamic response of a flexible plate on saturated soil layer. Soil Dynamics and Earthquake Engineering, 2006, 26, 637-647.	3.8	12
32	Finite element implementation of strain-hardening Drucker-Prager plasticity model with application to tunnel excavation. Underground Space (China), 2017, 2, 168-174.	7.5	12
33	Vertical Vibration of a Flexible Plate with Rigid Core on Saturated Ground. Journal of Engineering Mechanics - ASCE, 2007, 133, 326-337.	2.9	10
34	Stress Analysis of an Inclined Borehole Subjected to Fluid Discharge in Saturated Transversely Isotropic Rocks. International Journal of Geomechanics, 2019, 19, .	2.7	9
35	Vertical Vibration of a Flexible Foundation Resting on Saturated Layered Soil Half-Space. International Journal of Geomechanics, 2009, 9, 113-121.	2.7	8
36	Quick approximate elastoplastic solutions of wellbore stability problems based on numerical simulation and statistical analysis. Journal of Natural Gas Science and Engineering, 2018, 51, 147-154.	4.4	7

#	ARTICLE	IF	CITATIONS
37	Undrained cylindrical cavity expansion in anisotropic critical state soils. <i>Geotechnique</i> , 2019, 69, 1026-1028.	4.0	7
38	The axisymmetric mixed boundary-value problem of the vertical vibration of a rigid foundation on saturated layered soil subgrade. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2002, 23, 218-225.	3.6	6
39	Study of Wellbore Breakdown under Fluid Injection in Transversely Isotropic Poroelastic Formations. <i>SPE Journal</i> , 2021, 26, 394-411.	3.1	6
40	A graphical analysis-based method for undrained cylindrical cavity expansion in modified Cam Clay soil. <i>Geotechnique</i> , 2023, 73, 736-746.	4.0	6
41	Wave-Induced Dynamic Response and Liquefaction of Transversely Isotropic Seabed. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	5
42	Analysis of Cylindrical Cavity Expansion in Partially Saturated Soils. , 2020, , .		5
43	DISCUSSION: Closed-form solution for plastic zone formation around a circular tunnel in half-space obeying Mohr-Coulomb criterion. S. A. MASSINAS and M. G. SAKELLARIOU (2009). <i>Geotechnique</i> , No. 8, 691-701.. <i>Geotechnique</i> , 2010, 60, 569-571.	4.0	4
44	A semi-analytical solution for cylindrical cavity expansion in elastic-perfectly plastic soil under biaxial in situ stress field. <i>Geotechnique</i> , 2016, 66, 786-788.	4.0	4
45	Computational implementation of bounding surface model and its verification through cavity benchmark problems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 553-569.	3.3	4
46	Revisiting undrained cavity expansion problem in critical state soils: A simple graph-based approach. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 2356-2374.	3.3	4
47	Effects of Ductility of Organic-Rich Shale on Hydraulic Fracturing: A Fully Coupled Extended-Finite-Element-Method Analysis Using a Modified Cohesive Zone Model. <i>SPE Journal</i> , 2021, 26, 591-609.	3.1	3
48	Vertical Vibration of a Flexible Plate on Semi-Infinite Saturated Soil. , 2006, , 397.		1
49	An Analytical Elasto-Plastic Analysis for Stability of Axisymmetric Wellbore. , 2014, , .		1
50	Evaluating the Effect of Heating-Cooling Cycle on the Clay-Concrete Pile Interface. , 2022, , .		1
51	Engineering Charts for Predicting Breakdown Pressure for Finite-Length Wellbore Intervals. , 2021, , .		1
52	A Numerical Study of Pre-Boring Impacts on Side Friction of Piles. , 2019, , .		0