

John Carter

List of Publications by Year in descending order

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67
papers

4,428
citations

87723

38
h-index

106150

65
g-index

68
all docs

68
docs citations

68
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully coupled global equations for hydro-mechanical analysis of unsaturated soils. Computational Mechanics, 2021, 67, 107-125.	2.2	4
2	Numerical Modelling of Dynamic Compaction of Soils. Lecture Notes in Civil Engineering, 2021, , 935-942.	0.3	0
3	Numerical Analysis of Shallow Foundations Considering Hydraulic Hysteresis and Deformation Dependent Soil-Water Retention. Lecture Notes in Civil Engineering, 2021, , 949-956.	0.3	0
4	Analysis of undrained cyclic response of saturated soils. Computers and Geotechnics, 2021, 134, 104095.	2.3	4
5	The influence of cyclic loading on the response of soft subgrade soil in relation to heavy haul railways. Transportation Geotechnics, 2021, 29, 100571.	2.0	15
6	Effects of grout injection techniques in pressure grouted soil nail system. E3S Web of Conferences, 2019, 92, 17010.	0.2	1
7	Finite element implementation of a fully coupled hydro-mechanical model and unsaturated soil analysis under hydraulic and mechanical loads. Computers and Geotechnics, 2019, 110, 222-241.	2.3	18
8	Laboratory Investigation into Biodegradation of Jute Drains with Implications for Field Behavior. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	17
9	Application of fractional calculus in modelling ballast deformation under cyclic loading. Computers and Geotechnics, 2017, 82, 16-30.	2.3	32
10	An isotach elastoplastic constitutive model for natural soft clays. Computers and Geotechnics, 2016, 77, 134-155.	2.3	31
11	Geomechanics of subsidence above single and multi-seam coal mining. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 304-313.	3.7	58
12	Influence of biodegradable natural fibre drains on the radial consolidation of soft soil. Computers and Geotechnics, 2016, 78, 171-180.	2.3	22
13	Numerical analysis of penetrometers free-falling into soil with shear strength increasing linearly with depth. Computers and Geotechnics, 2016, 72, 57-66.	2.3	30
14	Numerical modelling of multiphase flow in unsaturated deforming porous media. Computers and Geotechnics, 2016, 71, 195-206.	2.3	48
15	Isotropic kinematic hardening model for coarse granular soils capturing particle breakage and cyclic loading under triaxial stress space. Canadian Geotechnical Journal, 2016, 53, 646-658.	1.4	45
16	2D and 3D analyses of an embankment on clay improved by soil-cement columns. Computers and Geotechnics, 2015, 68, 28-37.	2.3	97
17	Deformation behaviour of clay under repeated one-dimensional unloading-reloading. Canadian Geotechnical Journal, 2015, 52, 1035-1044.	1.4	13
18	Large deformation dynamic analysis of saturated porous media with applications to penetration problems. Computers and Geotechnics, 2014, 55, 117-131.	2.3	53

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19	Cone penetration-induced pore pressure distribution and dissipation. Computers and Geotechnics, 2014, 57, 105-113.	2.3	18
20	Numerical investigation of the failure of a building in Shanghai, China. Computers and Geotechnics, 2014, 55, 482-493.	2.3	69
21	A theoretical and experimental study on the behaviour of lignosulfonate-treated sandy silt. Computers and Geotechnics, 2014, 61, 316-327.	2.3	71
22	Consolidation analysis of clayey deposits under vacuum pressure with horizontal drains. Geotextiles and Geomembranes, 2014, 42, 437-444.	2.3	67
23	Description of compression behaviour of structured soils and its application. Canadian Geotechnical Journal, 2014, 51, 921-933.	1.4	28
24	Analysis of circular tunnels due to seismic P-wave propagation, with emphasis on unreinforced concrete liners. Computers and Geotechnics, 2014, 55, 187-194.	2.3	32
25	Finite element simulation of an embankment on soft clay – Case study. Computers and Geotechnics, 2013, 48, 117-126.	2.3	40
26	Effect of interface friction on tunnel liner internal forces due to seismic S- and P-wave propagation. Soil Dynamics and Earthquake Engineering, 2013, 46, 41-51.	1.9	60
27	Radial consolidation of soft soil under cyclic loads. Computers and Geotechnics, 2013, 50, 1-5.	2.3	29
28	Lateral displacement under combined vacuum pressure and embankment loading. Geotechnique, 2013, 63, 842-856.	2.2	43
29	Dynamic analysis of a smooth penetrometer free-falling into uniform clay. Geotechnique, 2012, 62, 893-905.	2.2	62
30	Modelling the effect of initial density on soil-water characteristic curves. Geotechnique, 2012, 62, 669-680.	2.2	143
31	Effect of hydraulic hysteresis on seepage analysis for unsaturated soils. Computers and Geotechnics, 2012, 41, 36-56.	2.3	45
32	Coefficient of consolidation from non-standard piezocone dissipation curves. Computers and Geotechnics, 2012, 41, 13-22.	2.3	55
33	Prediction of underground cavity roof collapse using the Hoek-Brown failure criterion. Computers and Geotechnics, 2012, 44, 93-103.	2.3	79
34	Estimating hydraulic conductivity from piezocone soundings. Geotechnique, 2011, 61, 699-708.	2.2	39
35	A failure surface for circular footings on cohesive soils. Geotechnique, 2010, 60, 265-273.	2.2	58
36	Improved Prediction of Lateral Deformations due to Installation of Soil-Cement Columns. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1836-1845.	1.5	36

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37	Some computational aspects for solving deep penetration problems in geomechanics. Computational Mechanics, 2009, 44, 549-561.	2.2	54
38	Effects of tunnelling on existing support systems of perpendicularly crossing tunnels. Computers and Geotechnics, 2009, 36, 880-894.	2.3	77
39	Alternative stress-integration schemes for large-deformation problems of solid mechanics. Finite Elements in Analysis and Design, 2009, 45, 934-943.	1.7	28
40	Arbitrary Lagrangian-Eulerian method for dynamic analysis of geotechnical problems. Computers and Geotechnics, 2009, 36, 549-557.	2.3	62
41	Full 3D modelling for effects of tunnelling on existing support systems in the Sydney region. Tunnelling and Underground Space Technology, 2008, 23, 399-420.	3.0	74
42	A volume-stress model for sands under isotropic and critical stress states. Canadian Geotechnical Journal, 2008, 45, 1639-1645.	1.4	39
43	Combined Finite- and Boundary-Element Analysis of the Effects of Tunneling on Single Piles. International Journal of Geomechanics, 2006, 6, 374-377.	1.3	14
44	Stress integration and mesh refinement for large deformation in geomechanics. International Journal for Numerical Methods in Engineering, 2006, 65, 1002-1027.	1.5	115
45	Vacuum consolidation and its combination with embankment loading. Canadian Geotechnical Journal, 2006, 43, 985-996.	1.4	115
46	Ground Deformation Induced by Vacuum Consolidation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 1552-1561.	1.5	149
47	Volumetric Deformation of Natural Clays. International Journal of Geomechanics, 2003, 3, 236-252.	1.3	47
48	General Strength Criterion for Geomaterials. International Journal of Geomechanics, 2003, 3, 253-259.	1.3	36
49	Modeling Compression Behavior of Structured Geomaterials. International Journal of Geomechanics, 2003, 3, 191-204.	1.3	44
50	A structured Cam Clay model. Canadian Geotechnical Journal, 2002, 39, 1313-1332.	1.4	265
51	A semi-analytical finite element method for three-dimensional consolidation analysis. Computers and Geotechnics, 2001, 28, 55-78.	2.3	30
52	A neural network model for the uplift capacity of suction caissons. Computers and Geotechnics, 2001, 28, 269-287.	2.3	65
53	Modelling the destructuring of soils during virgin compression. Geotechnique, 2000, 50, 479-483.	2.2	97
54	Numerical studies of the bearing capacity of shallow foundations on cohesive soil subjected to combined loading. Geotechnique, 2000, 50, 409-418.	2.2	225

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55	Virgin compression of structured soils. <i>Geotechnique</i> , 1999, 49, 43-57.	2.2	126
56	Surface subsidence and drawdown of the water table due to pumping. <i>Geotechnique</i> , 1994, 44, 381-396.	2.2	28
57	A finite element study of the pressuremeter test in sand using a nonlinear elastic plastic model. <i>Canadian Geotechnical Journal</i> , 1993, 30, 348-362.	1.4	146
58	The effects of pressuremeter geometry on the results of tests in clay. <i>Geotechnique</i> , 1993, 43, 567-576.	2.2	39
59	Analysis of Laterally Loaded Shafts in Rock. <i>Journal of Geotechnical Engineering</i> , 1992, 118, 839-855.	0.4	90
60	Finite element analysis of coupled thermoelasticity. <i>Computers and Structures</i> , 1989, 31, 73-80.	2.4	80
61	Withdrawal of a compressible pore fluid from a point sink in an isotropic elastic half space with anisotropic permeability. <i>International Journal of Solids and Structures</i> , 1987, 23, 369-385.	1.3	39
62	Cavity expansion in cohesive frictional soils. <i>Geotechnique</i> , 1986, 36, 349-358.	2.2	309
63	Analysis of cylindrical cavity expansion in a strain weakening material. <i>Computers and Geotechnics</i> , 1985, 1, 161-180.	2.3	29
64	Predictions of the non-homogeneous behaviour of clay in the triaxial test. <i>Geotechnique</i> , 1982, 32, 55-58.	2.2	43
65	Elastic consolidation around a deep circular tunnel. <i>International Journal of Solids and Structures</i> , 1982, 18, 1059-1074.	1.3	77
66	Driven piles in clay—the effects of installation and subsequent consolidation. <i>Geotechnique</i> , 1979, 29, 361-393.	2.2	366
67	A theory of finite elastic consolidation. <i>International Journal of Solids and Structures</i> , 1977, 13, 467-478.	1.3	57