

# 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	Driven piles in clay—the effects of installation and subsequent consolidation. <i>Geotechnique</i> , 1979, 29, 361-393.	2.2	366
2	Cavity expansion in cohesive frictional soils. <i>Geotechnique</i> , 1986, 36, 349-358.	2.2	309
3	A structured Cam Clay model. <i>Canadian Geotechnical Journal</i> , 2002, 39, 1313-1332.	1.4	265
4	Numerical studies of the bearing capacity of shallow foundations on cohesive soil subjected to combined loading. <i>Geotechnique</i> , 2000, 50, 409-418.	2.2	225
5	Ground Deformation Induced by Vacuum Consolidation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 1552-1561.	1.5	149
6	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
7	Modelling the effect of initial density on soil-water characteristic curves. <i>Geotechnique</i> , 2012, 62, 669-680.	2.2	143
8	Virgin compression of structured soils. <i>Geotechnique</i> , 1999, 49, 43-57.	2.2	126
9	Stress integration and mesh refinement for large deformation in geomechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 65, 1002-1027.	1.5	115
10	Vacuum consolidation and its combination with embankment loading. <i>Canadian Geotechnical Journal</i> , 2006, 43, 985-996.	1.4	115
11	Modelling the destructuring of soils during virgin compression. <i>Geotechnique</i> , 2000, 50, 479-483.	2.2	97
12	2D and 3D analyses of an embankment on clay improved by soil–cement columns. <i>Computers and Geotechnics</i> , 2015, 68, 28-37.	2.3	97
13	Analysis of Laterally Loaded Shafts in Rock. <i>Journal of Geotechnical Engineering</i> , 1992, 118, 839-855.	0.4	90
14	Finite element analysis of coupled thermoelasticity. <i>Computers and Structures</i> , 1989, 31, 73-80.	2.4	80
15	Prediction of underground cavity roof collapse using the Hoek–Brown failure criterion. <i>Computers and Geotechnics</i> , 2012, 44, 93-103.	2.3	79
16	Elastic consolidation around a deep circular tunnel. <i>International Journal of Solids and Structures</i> , 1982, 18, 1059-1074.	1.3	77
17	Effects of tunnelling on existing support systems of perpendicularly crossing tunnels. <i>Computers and Geotechnics</i> , 2009, 36, 880-894.	2.3	77
18	Full 3D modelling for effects of tunnelling on existing support systems in the Sydney region. <i>Tunnelling and Underground Space Technology</i> , 2008, 23, 399-420.	3.0	74

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19	A theoretical and experimental study on the behaviour of lignosulfonate-treated sandy silt. Computers and Geotechnics, 2014, 61, 316-327.	2.3	71
20	Numerical investigation of the failure of a building in Shanghai, China. Computers and Geotechnics, 2014, 55, 482-493.	2.3	69
21	Consolidation analysis of clayey deposits under vacuum pressure with horizontal drains. Geotextiles and Geomembranes, 2014, 42, 437-444.	2.3	67
22	A neural network model for the uplift capacity of suction caissons. Computers and Geotechnics, 2001, 28, 269-287.	2.3	65
23	Arbitrary Lagrangian-Eulerian method for dynamic analysis of geotechnical problems. Computers and Geotechnics, 2009, 36, 549-557.	2.3	62
24	Dynamic analysis of a smooth penetrometer free-falling into uniform clay. Geotechnique, 2012, 62, 893-905.	2.2	62
25	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
26	A failure surface for circular footings on cohesive soils. Geotechnique, 2010, 60, 265-273.	2.2	58
27	Geomechanics of subsidence above single and multi-seam coal mining. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 304-313.	3.7	58
28	A theory of finite elastic consolidation. International Journal of Solids and Structures, 1977, 13, 467-478.	1.3	57
29	Coefficient of consolidation from non-standard piezocone dissipation curves. Computers and Geotechnics, 2012, 41, 13-22.	2.3	55
30	Some computational aspects for solving deep penetration problems in geomechanics. Computational Mechanics, 2009, 44, 549-561.	2.2	54
31	Large deformation dynamic analysis of saturated porous media with applications to penetration problems. Computers and Geotechnics, 2014, 55, 117-131.	2.3	53
32	Numerical modelling of multiphase flow in unsaturated deforming porous media. Computers and Geotechnics, 2016, 71, 195-206.	2.3	48
33	Volumetric Deformation of Natural Clays. International Journal of Geomechanics, 2003, 3, 236-252.	1.3	47
34	Effect of hydraulic hysteresis on seepage analysis for unsaturated soils. Computers and Geotechnics, 2012, 41, 36-56.	2.3	45
35	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
36	Modeling Compression Behavior of Structured Geomaterials. International Journal of Geomechanics, 2003, 3, 191-204.	1.3	44

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37	Predictions of the non-homogeneous behaviour of clay in the triaxial test. <i>Geotechnique</i> , 1982, 32, 55-58.	2.2	43
38	Lateral displacement under combined vacuum pressure and embankment loading. <i>Geotechnique</i> , 2013, 63, 842-856.	2.2	43
39	Finite element simulation of an embankment on soft clay – Case study. <i>Computers and Geotechnics</i> , 2013, 48, 117-126.	2.3	40
40	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
41	The effects of pressuremeter geometry on the results of tests in clay. <i>Geotechnique</i> , 1993, 43, 567-576.	2.2	39
42	A volume–stress model for sands under isotropic and critical stress states. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1639-1645.	1.4	39
43	Estimating hydraulic conductivity from piezocone soundings. <i>Geotechnique</i> , 2011, 61, 699-708.	2.2	39
44	General Strength Criterion for Geomaterials. <i>International Journal of Geomechanics</i> , 2003, 3, 253-259.	1.3	36
45	Improved Prediction of Lateral Deformations due to Installation of Soil-Cement Columns. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 1836-1845.	1.5	36
46	Analysis of circular tunnels due to seismic P-wave propagation, with emphasis on unreinforced concrete liners. <i>Computers and Geotechnics</i> , 2014, 55, 187-194.	2.3	32
47	Application of fractional calculus in modelling ballast deformation under cyclic loading. <i>Computers and Geotechnics</i> , 2017, 82, 16-30.	2.3	32
48	An isotach elastoplastic constitutive model for natural soft clays. <i>Computers and Geotechnics</i> , 2016, 77, 134-155.	2.3	31
49	A semi-analytical finite element method for three-dimensional consolidation analysis. <i>Computers and Geotechnics</i> , 2001, 28, 55-78.	2.3	30
50	Numerical analysis of penetrometers free-falling into soil with shear strength increasing linearly with depth. <i>Computers and Geotechnics</i> , 2016, 72, 57-66.	2.3	30
51	Analysis of cylindrical cavity expansion in a strain weakening material. <i>Computers and Geotechnics</i> , 1985, 1, 161-180.	2.3	29
52	Radial consolidation of soft soil under cyclic loads. <i>Computers and Geotechnics</i> , 2013, 50, 1-5.	2.3	29
53	Surface subsidence and drawdown of the water table due to pumping. <i>Geotechnique</i> , 1994, 44, 381-396.	2.2	28
54	Alternative stress-integration schemes for large-deformation problems of solid mechanics. <i>Finite Elements in Analysis and Design</i> , 2009, 45, 934-943.	1.7	28

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55	Description of compression behaviour of structured soils and its application. Canadian Geotechnical Journal, 2014, 51, 921-933.	1.4	28
56	Influence of biodegradable natural fibre drains on the radial consolidation of soft soil. Computers and Geotechnics, 2016, 78, 171-180.	2.3	22
57	Cone penetration-induced pore pressure distribution and dissipation. Computers and Geotechnics, 2014, 57, 105-113.	2.3	18
58	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
59	Laboratory Investigation into Biodegradation of Jute Drains with Implications for Field Behavior. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	17
60	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
61	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
62	Deformation behaviour of clay under repeated one-dimensional unloading&quot;reloading. Canadian Geotechnical Journal, 2015, 52, 1035-1044.	1.4	13
63	Fully coupled global equations for hydro-mechanical analysis of unsaturated soils. Computational Mechanics, 2021, 67, 107-125.	2.2	4
64	Analysis of undrained cyclic response of saturated soils. Computers and Geotechnics, 2021, 134, 104095.	2.3	4
65	Effects of grout injection techniques in pressure grouted soil nail system. E3S Web of Conferences, 2019, 92, 17010.	0.2	1
66	Numerical Modelling of Dynamic Compaction of Soils. Lecture Notes in Civil Engineering, 2021, , 935-942.	0.3	0
67	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