Scott Sloan

List of Publications by Year
in descending order

239 papers	13,147 citations	16451 64 h-index	30922 102 g-index
242 all docs	242 docs citations	242 times ranked	5300 citing authors

#	Article	IF	Citations
1	Geotechnical stability analysis. Geotechnique, 2013, 63, 531-571.	4.0	510
2	Lower bound limit analysis using non-linear programming. International Journal for Numerical Methods in Engineering, 2002, 55, 573-611.	2.8	427
3	Substepping schemes for the numerical integration of elastoplastic stress-strain relations. International Journal for Numerical Methods in Engineering, 1987, 24, 893-911.	2.8	342
4	Upper bound limit analysis using discontinuous velocity fields. Computer Methods in Applied Mechanics and Engineering, 1995, 127, 293-314.	6.6	338
5	Refined explicit integration of elastoplastic models with automatic error control. Engineering Computations, 2001, 18, 121-194.	1.4	315
6	A new discontinuous upper bound limit analysis formulation. International Journal for Numerical Methods in Engineering, 2005, 63, 1069-1088.	2.8	282
7	Formulation and solution of some plasticity problems as conic programs. International Journal of Solids and Structures, 2007, 44, 1533-1549.	2.7	273
8	A constitutive model for unsaturated soils: thermomechanical and computational aspects. Computational Mechanics, 2004, 33, 453-465.	4.0	246
9	The ultimate pullout capacity of anchors in frictional soils. Canadian Geotechnical Journal, 2006, 43, 852-868.	2.8	223
10	Limit Analysis versus Limit Equilibrium for Slope Stability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 1-11.	3.0	218
11	A smooth hyperbolic approximation to the Mohr-Coulomb yield criterion. Computers and Structures, 1995, 54, 427-441.	4.4	207
12	Aspects of finite element implementation of critical state models. Computational Mechanics, 2000, 26, 185-196.	4.0	203
13	Quantitative risk assessment of landslide by limit analysis and random fields. Computers and Geotechnics, 2013, 53, 60-67.	4.7	177
14	A modification of the phase-field model for mixed mode crack propagation in rock-like materials. Computer Methods in Applied Mechanics and Engineering, 2017, 322, 123-136.	6.6	174
15	Numerical limit analysis solutions for the bearing capacity factor $N\gamma$. International Journal of Solids and Structures, 2005, 42, 1681-1704.	2.7	170
16	Finite element formulation and algorithms for unsaturated soils. Part I: Theory. International Journal for Numerical and Analytical Methods in Geomechanics, 2003, 27, 745-765.	3.3	164
17	Interpretation of unsaturated soil behaviour in the stress â€" Saturation space, I: Volume change and water retention behaviour. Computers and Geotechnics, 2012, 43, 178-187.	4.7	158
18	An algorithm for profile and wavefront reduction of sparse matrices. International Journal for Numerical Methods in Engineering, 1986, 23, 239-251.	2.8	157

#	ARTICLE	IF	CITATIONS
19	Elastoplastic modelling of hydraulic and stress–strain behaviour of unsaturated soils. Mechanics of Materials, 2007, 39, 212-221.	3.2	151
20	Undrained Limit Analyses for Combined Loading of Strip Footings on Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 265-276.	3.0	143
21	Three-Dimensional Lower Bound Solutions for Stability of Plate Anchors in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 243-253.	3.0	127
22	A FORTRAN program for profile and wavefront reduction. International Journal for Numerical Methods in Engineering, 1989, 28, 2651-2679.	2.8	125
23	Unsaturated soils: From constitutive modelling to numerical algorithms. Computers and Geotechnics, 2008, 35, 810-824.	4.7	123
24	Numerical evaluation of the phase-field model for brittle fracture with emphasis on the length scale. Computational Mechanics, 2017, 59, 737-752.	4.0	122
25	Undrained stability of a square tunnel in a soil whose strength increases linearly with depth. Computers and Geotechnics, 1991, 12, 321-346.	4.7	120
26	Slope stability analysis by means of finite element limit analysis and finite element strength reduction techniques. Part I: Numerical studies considering non-associated plasticity. Computers and Geotechnics, 2015, 70, 169-177.	4.7	118
27	Stability of a circular tunnel in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2011, 38, 504-514.	4.7	116
28	An interior-point algorithm for elastoplasticity. International Journal for Numerical Methods in Engineering, 2007, 69, 592-626.	2.8	113
29	Two- and three-dimensional bearing capacity of footings in sand. Geotechnique, 2007, 57, 647-662.	4.0	110
30	Rigorous plasticity solutions for the bearing capacity of two-layered clays. Geotechnique, 1999, 49, 471-490.	4.0	109
31	Simplified quantitative risk assessment of rainfall-induced landslides modelled by infinite slopes. Engineering Geology, 2014, 179, 102-116.	6.3	108
32	Bearing capacity of a sand layer on clay by finite element limit analysis. Canadian Geotechnical Journal, 2003, 40, 900-915.	2.8	104
33	A fast algorithm for generating constrained delaunay triangulations. Computers and Structures, 1993, 47, 441-450.	4.4	101
34	Adaptive time stepping and error control in a mass conservative numerical solution of the mixed form of Richards equation. Advances in Water Resources, 2001, 24, 595-605.	3.8	99
35	Undrained stability of a circular tunnel where the shear strength increases linearly with depth. Canadian Geotechnical Journal, 2011, 48, 1328-1342.	2.8	99
36	Numerical simulation of the failure mechanism of circular tunnels in transversely isotropic rock masses. Tunnelling and Underground Space Technology, 2012, 32, 231-244.	6.2	99

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37	Numerical study of failure behaviour of pre-cracked rock specimens under conventional triaxial compression. International Journal of Solids and Structures, 2014, 51, 1132-1148.	2.7	97
38	Coupled discrete element–finite difference method for analysing the load-deformation behaviour of a single stone column in soft soil. Computers and Geotechnics, 2015, 63, 267-278.	4.7	97
39	Stability of an undrained plane strain heading revisited. Computers and Geotechnics, 2003, 30, 419-430.	4.7	95
40	Lower bound limit analysis with adaptive remeshing. International Journal for Numerical Methods in Engineering, 2005, 63, 1961-1974.	2.8	94
41	Comparison of finite-element limit analysis and strength reduction techniques. Geotechnique, 2015, 65, 249-257.	4.0	94
42	Characterisation of Ballina clay. Geotechnique, 2016, 66, 556-577.	4.0	94
43	Undrained Stability of Footings on Slopes. International Journal of Geomechanics, 2011, 11, 381-390.	2.7	93
44	Undrained Stability of Braced Excavations in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 738-755.	3.0	88
45	Arbitrary Lagrangian–Eulerian method for large–strain consolidation problems. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1023-1050.	3.3	88
46	Prediction of Undrained Sinkhole Collapse. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 197-205.	3.0	87
47	Stability of a single tunnel in cohesive–frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2011, 48, 1841-1854.	2.8	83
48	Interpretation of unsaturated soil behaviour in the stress–saturation space. Computers and Geotechnics, 2012, 43, 111-123.	4.7	83
49	Three-dimensional lower-bound solutions for the stability of plate anchors in sand. Geotechnique, 2006, 56, 123-132.	4.0	81
50	Biot consolidation analysis with automatic time stepping and error control Part 1: theory and implementation. International Journal for Numerical and Analytical Methods in Geomechanics, 1999, 23, 467-492.	3.3	79
51	Adaptive backward Euler time stepping with truncation error control for numerical modelling of unsaturated fluid flow. International Journal for Numerical Methods in Engineering, 2002, 53, 1301-1322.	2.8	79
52	Finite element analysis of cone penetration in cohesionless soil. Computers and Geotechnics, 2004, 31, 517-528.	4.7	78
53	Use of expanding polyurethane resin to remediate expansive soil foundations. Canadian Geotechnical Journal, 2010, 47, 623-634.	2.8	78
54	Structure and properties of expanding polyurethane foam in the context of foundation remediation in expansive soil. Mechanics of Materials, 2008, 40, 1012-1021.	3.2	76

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55	Undrained stability of wide rectangular tunnels. Computers and Geotechnics, 2013, 53, 46-59.	4.7	76
56	Stability of dual circular tunnels in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2013, 50, 41-54.	4.7	75
57	Numerical analysis of the failure process around a circular opening in rock. Computers and Geotechnics, 2012, 39, 8-16.	4.7	72
58	A 3D discrete element modelling approach for rockfall analysis with drapery systems. International Journal of Rock Mechanics and Minings Sciences, 2014, 68, 107-119.	5.8	72
59	Undrained stability of a square tunnel where the shear strength increases linearly with depth. Computers and Geotechnics, 2013, 49, 314-325.	4.7	71
60	A steepest edge active set algorithm for solving sparse linear programming problems. International Journal for Numerical Methods in Engineering, 1988, 26, 2671-2685.	2.8	70
61	Explicit stress integration of complex soil models. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 1209-1229.	3.3	70
62	Undrained Stability of Shallow Square Tunnel. Journal of Geotechcnical Engineering, 1991, 117, 1152-1173.	0.4	69
63	Finite element formulation and algorithms for unsaturated soils. Part II: Verification and application. International Journal for Numerical and Analytical Methods in Geomechanics, 2003, 27, 767-790.	3.3	69
64	Elastoplastic prediction of hydro-mechanical behaviour of unsaturated soils under undrained conditions. Computers and Geotechnics, 2008, 35, 845-852.	4.7	68
65	A C2 continuous approximation to the Mohrâ€"Coulomb yield surface. International Journal of Solids and Structures, 2011, 48, 3001-3010.	2.7	66
66	Discrete modelling of hexagonal wire meshes with a stochastically distorted contact model. Computers and Geotechnics, 2013, 49, 158-169.	4.7	66
67	Finite Element Limit Analysis of Passive Earth Resistance in Cohesionless Soils. Soils and Foundations, 2008, 48, 843-850.	3.1	65
68	Boundary effects of rainfall-induced landslides. Computers and Geotechnics, 2014, 61, 341-354.	4.7	63
69	Lagrangian modelling of large deformation induced by progressive failure of sensitive clays with elastoviscoplasticity. International Journal for Numerical Methods in Engineering, 2017, 112, 963-989.	2.8	63
70	Stability analysis of unsaturated soil slopes under random rainfall patterns. Engineering Geology, 2018, 245, 322-332.	6.3	62
71	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.	3.8	60
72	Experimental study on rockfall drapery systems for open pit highwalls. International Journal of Rock Mechanics and Minings Sciences, 2012, 56, 171-181.	5.8	59

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73	Slope stability analysis by means of finite element limit analysis and finite element strength reduction techniques. Part II: Back analyses of a case history. Computers and Geotechnics, 2015, 70, 178-189.	4.7	59
74	Experimental investigation of pressure grouting in sand. Soils and Foundations, 2016, 56, 161-173.	3.1	58
75	A constitutive model for coal-fouled ballast capturing the effects of particle degradation. Computers and Geotechnics, 2014, 61, 96-107.	4.7	57
76	Numerical Study of Failure Mechanism of Serial and Parallel Rock Pillars. Rock Mechanics and Rock Engineering, 2011, 44, 179-198.	5.4	56
77	Three-Dimensional Numerical Investigations of the Failure Mechanism of a Rock Disc with a Central or Eccentric Hole. Rock Mechanics and Rock Engineering, 2014, 47, 2117-2137.	5.4	56
78	A calcite permeable reactive barrier for the remediation of Fluoride from spent potliner (SPL) contaminated groundwater. Journal of Contaminant Hydrology, 2008, 95, 110-120.	3.3	55
79	Noniterative time stepping schemes with adaptive truncation error control for the solution of Richards equation. Water Resources Research, 2002, 38, 29-1-29-10.	4.2	54
80	Large deformation dynamic analysis of saturated porous media with applications to penetration problems. Computers and Geotechnics, 2014, 55, 117-131.	4.7	53
81	Integration of Tresca and Mohr-Coulomb constitutive relations in plane strain elastoplasticity. International Journal for Numerical Methods in Engineering, 1992, 33, 163-196.	2.8	52
82	Probabilistic stability assessment using adaptive limit analysis and random fields. Acta Geotechnica, 2017, 12, 937-948.	5.7	51
83	Numerical Modeling of Pore Pressure Influence on Fracture Evolution in Brittle Heterogeneous Rocks. Rock Mechanics and Rock Engineering, 2013, 46, 1165-1182.	5.4	50
84	Undrained Stability of Dual Circular Tunnels. International Journal of Geomechanics, 2014, 14, 69-79.	2.7	50
85	Analysis of buried pipelines subjected to ground surface settlement and heave. Canadian Geotechnical Journal, 2015, 52, 1058-1071.	2.8	50
86	Embankment prediction using testing data and monitored behaviour: A Bayesian updating approach. Computers and Geotechnics, 2018, 93, 150-162.	4.7	50
87	Novel remediation of per- and polyfluoroalkyl substances (PFASs) from contaminated groundwater using Cannabis Sativa L. (hemp) protein powder. Chemosphere, 2019, 229, 22-31.	8.2	50
88	Undrained stability of dual square tunnels. Acta Geotechnica, 2015, 10, 665-682.	5.7	49
89	Nonlinear consolidation of vertical drains with coupled radial–vertical flow considering well resistance. Geotextiles and Geomembranes, 2015, 43, 182-189.	4.6	48
90	Undrained stability of a plane strain heading. Canadian Geotechnical Journal, 1994, 31, 443-450.	2.8	44

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91	Sandâ€"pipelineâ€"trench lateral interaction effects for shallow buried pipelines. Computers and Geotechnics, 2013, 54, 53-59.	4.7	44
92	Discrete modelling jointed rock slopes using mathematical programming methods. Computers and Geotechnics, 2018, 96, 189-202.	4.7	44
93	Automatic element reordering for finite element analysis with frontal solution schemes. International Journal for Numerical Methods in Engineering, 1983, 19, 1153-1181.	2.8	42
94	Finite element limit analysis of reinforced soils. Computers and Structures, 1997, 63, 567-577.	4.4	42
95	Outcomes of the Newcastle symposium for the prediction of embankment behaviour on soft soil. Computers and Geotechnics, 2018, 93, 9-41.	4.7	42
96	Dynamic modelling of retrogressive landslides with emphasis on the role of clay sensitivity. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1806-1822.	3.3	42
97	Bayesian updating for progressive excavation of high rock slopes using multi-type monitoring data. Engineering Geology, 2019, 252, 1-13.	6.3	42
98	Analytical solution and numerical simulation of vacuum consolidation by vertical drains beneath circular embankments. Computers and Geotechnics, 2016, 80, 83-96.	4.7	41
99	Bearing capacity of a cohesive-frictional soil under non-eccentric inclined loading. Computers and Geotechnics, 2004, 31, 491-516.	4.7	39
100	A simple hypoplastic model for normally consolidated clay. Acta Geotechnica, 2006, 1, 15-27.	5.7	39
101	Stability of dual square tunnels in cohesive-frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2014, 51, 829-843.	2.8	39
102	Numerical and experimental studies of the mechanical behaviour for compaction grouted soil nails in sandy soil. Computers and Geotechnics, 2017, 90, 202-214.	4.7	38
103	Experimental Testing of Rockfall Barriers Designed for the Low Range of Impact Energy. Rock Mechanics and Rock Engineering, 2013, 46, 701-712.	5.4	37
104	Undrained stability of a single circular tunnel in spatially variable soil subjected to surcharge loading. Computers and Geotechnics, 2017, 84, 16-27.	4.7	36
105	Lower bound solutions for bearing capacity of jointed rock. Computers and Geotechnics, 2004, 31, 23-36.	4.7	35
106	Bounds for shakedown of cohesive-frictional materials under moving surface loads. International Journal of Solids and Structures, 2008, 45, 3290-3312.	2.7	35
107	Kinetics of fluoride removal from spent pot liner leachate (SPLL) contaminated groundwater. Journal of Environmental Chemical Engineering, 2015, 3, 2580-2587.	6.7	35
108	Load stepping schemes for critical state models. International Journal for Numerical Methods in Engineering, 2001, 50, 67-93.	2.8	34

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109	Multi-scale characterization of swelling behaviour of compacted Maryland clay. Acta Geotechnica, 2016, 11, 789-804.	5.7	34
110	Undrained stability of rectangular tunnels where shear strength increases linearly with depth. Canadian Geotechnical Journal, 2017, 54, 469-480.	2.8	34
111	Non-axisymmetric response of piles in low-strain integrity testing. Geotechnique, 2017, 67, 181-186.	4.0	34
112	A quadratic element for upper bound limit analysis. Engineering Computations, 1994, 11, 195-212.	1.4	33
113	Impact of Phosphate on Fluoride Removal by Calcite. Environmental Engineering Science, 2010, 27, 643-650.	1.6	32
114	Analysis of circular tunnels due to seismic P-wave propagation, with emphasis on unreinforced concrete liners. Computers and Geotechnics, 2014, 55, 187-194.	4.7	32
115	Vertical vibration of an elastic pile embedded in poroelastic soil. Soil Dynamics and Earthquake Engineering, 2015, 77, 177-181.	3.8	32
116	Frictionless contact formulation for dynamic analysis of nonlinear saturated porous media based on the mortar method. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 25-61.	3.3	32
117	Coupled analysis of dynamically penetrating anchors. Computers and Geotechnics, 2016, 77, 26-44.	4.7	32
118	Kinetic model selection and the Hill model in geochemistry. International Journal of Environmental Science and Technology, 2015, 12, 2545-2558.	3.5	31
119	Vertical response of a thin-walled pipe pile embedded in viscoelastic soil to a transient point load with application to low-strain integrity testing. Computers and Geotechnics, 2015, 70, 50-59.	4.7	31
120	Second-order cone programming formulation for consolidation analysis of saturated porous media. Computational Mechanics, 2016, 58, 29-43.	4.0	31
121	An isotach elastoplastic constitutive model for natural soft clays. Computers and Geotechnics, 2016, 77, 134-155.	4.7	31
122	Updating reliability of single piles and pile groups by load tests. Computers and Geotechnics, 2016, 73, 221-230.	4.7	31
123	Time stepping schemes for coupled displacement and pore pressur? analysis. Computational Mechanics, 2003, 31, 122-134.	4.0	30
124	Soil-buried pipeline interaction for vertical downwards relative offset. Canadian Geotechnical Journal, 2014, 51, 1087-1094.	2.8	30
125	Effect of High Temperature on Mineralogy, Microstructure, Shear Stiffness and Tensile Strength of Two Australian Mudstones. Rock Mechanics and Rock Engineering, 2016, 49, 3513-3524.	5.4	30
126	Experimental investigation of compaction-grouted soil nails. Canadian Geotechnical Journal, 2017, 54, 1728-1738.	2.8	30

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127	Improved numerical algorithms for frictional contact in pile penetration analysis. Computers and Geotechnics, 2006, 33, 341-354.	4.7	29
128	Ultimate lateral pressure of two side-by-side piles in clay. Geotechnique, 2013, 63, 733-745.	4.0	29
129	Modelling the plastic anisotropy of Lower Cromer Till. Computers and Geotechnics, 2015, 69, 22-37.	4.7	29
130	The kinetics of fluoride sorption by zeolite: Effects of cadmium, barium and manganese. Journal of Contaminant Hydrology, 2015, 177-178, 136-147.	3.3	29
131	Probabilistic characterization of two-dimensional soil profile by integrating cone penetration test (CPT) with multi-channel analysis of surface wave (MASW) data. Canadian Geotechnical Journal, 2018, 55, 1168-1181.	2.8	29
132	Limit analysis of anisotropic soils using finite elements and linear programming. Mechanics Research Communications, 1994, 21, 545-554.	1.8	28
133	Application of Frictional Contact in Geotechnical Engineering. International Journal of Geomechanics, 2007, 7, 176-185.	2.7	28
134	Alternative stress-integration schemes for large-deformation problems of solid mechanics. Finite Elements in Analysis and Design, 2009, 45, 934-943.	3.2	28
135	Rockfall Hazard Analysis From Discrete Fracture Network Modelling with Finite Persistence Discontinuities. Rock Mechanics and Rock Engineering, 2012, 45, 871.	5.4	28
136	Undrained limiting lateral soil pressure on a row of piles. Computers and Geotechnics, 2013, 54, 175-184.	4.7	28
137	Nonlinear radial consolidation of vertical drains under a general time€variable loading. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 51-62.	3.3	28
138	Perforation of Flexible Rockfall Barriers by Normal Block Impact. Rock Mechanics and Rock Engineering, 2013, 46, 515-526.	5.4	27
139	Development of a prototype for modelling soil€pipe interaction and its application for predicting uplift resistance to buried pipe movements in sand. Canadian Geotechnical Journal, 2018, 55, 1451-1474.	2.8	27
140	Biot consolidation analysis with automatic time stepping and error control Part 2: applications. International Journal for Numerical and Analytical Methods in Geomechanics, 1999, 23, 493-529.	3.3	26
141	Shallow and deep failure mechanisms during uplift and lateral dragging of buried pipes in sand. Canadian Geotechnical Journal, 2020, 57, 1472-1483.	2.8	26
142	Behaviour of interfacial layer along granular soil-structure interfaces. Structural Engineering and Mechanics, 2003, 15, 315-329.	1.0	26
143	A comparative study of stress integration methods for the Barcelona Basic Model. Computers and Geotechnics, 2012, 44, 22-33.	4.7	25
144	Quasi-static collapse of two-dimensional granular columns: insight from continuum modelling. Granular Matter, 2016, 18, 1.	2.2	25

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145	Stress update algorithm for elastoplastic models with nonconvex yield surfaces. International Journal for Numerical Methods in Engineering, 2008, 76, 2029-2062.	2.8	23
146	Numerical Simulation of Hydraulic Fracturing in Low-/High-Permeability, Quasi-Brittle and Heterogeneous Rocks. Rock Mechanics and Rock Engineering, 2018, 51, 1153-1171.	5.4	22
147	The thermal conductivity decomposition of calcite calculated by molecular dynamics simulation. Computational Materials Science, 2018, 141, 170-179.	3.0	22
148	Performance of a compaction-grouted soil nail in laboratory tests. Acta Geotechnica, 2019, 14, 1049-1063.	5.7	22
149	Refined h-adaptive finite element procedure for large deformation geotechnical problems. Computational Mechanics, 2012, 49, 21-33.	4.0	21
150	A perturbation method for optimization of rigid block mechanisms in the kinematic method of limit analysis. Computers and Geotechnics, 2013, 48, 260-271.	4.7	21
151	A 3D upper bound limit analysis using radial point interpolation meshless method and secondâ€order cone programming. International Journal for Numerical Methods in Engineering, 2016, 108, 1686-1704.	2.8	21
152	Error behaviour in explicit integration algorithms with automatic substepping. International Journal for Numerical Methods in Engineering, 2016, 108, 1030-1053.	2.8	21
153	A new analytical model for consolidation with multiple vertical drains. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1623-1640.	3.3	21
154	Physical modelling of lateral sandâ€"pipe interaction. Geotechnique, 2021, 71, 60-75.	4.0	21
155	Analysis of the failure mode and softening behaviour of sands in true triaxial tests. International Journal of Solids and Structures, 2007, 44, 1423-1437.	2.7	20
156	The influence of the degree of saturation on compaction-grouted soil nails in sand. Acta Geotechnica, 2019, 14, 1101-1111.	5.7	20
157	Statistical evaluation of rockfall energy ranges for different geological settings of New South Wales, Australia. Engineering Geology, 2013, 158, 57-65.	6.3	19
158	Numerical study on finite element implementation of hypoplastic models. Computers and Geotechnics, 2015, 68, 78-90.	4.7	19
159	Application of bounding surface plasticity concept for clay-fouled ballast under drained loading. Computers and Geotechnics, 2015, 70, 96-105.	4.7	19
160	Numerical Study of the Failure Response and Fracture Propagation for Rock Specimens with Preexisting Flaws under Compression. International Journal of Geomechanics, 2018, 18, .	2.7	19
161	Modelling Rock Failure with a Novel Continuous to Discontinuous Method. Rock Mechanics and Rock Engineering, 2019, 52, 3183-3195.	5.4	19
162	Numerical investigation of the cylinder movement in granular matter. Physical Review E, 2015, 91, 022204.	2.1	18

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163	Mathematical Modeling and Experimental Verification of Fluid Flow through Deformable Rough Rock Joints. International Journal of Geomechanics, 2015, 15, .	2.7	18
164	A revised solution for the horizontal vibration of an end‐bearing pile in viscoelastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1890-1900.	3.3	18
165	A novel web based application for storing, managing and sharing geotechnical data, illustrated using the national soft soil field testing facility in Ballina, Australia. Computers and Geotechnics, 2018, 93, 3-8.	4.7	18
166	Undrained uplift capacity of deeply embedded strip anchors in non-uniform soil. Computers and Geotechnics, 2015, 70, 41-49.	4.7	17
167	Effects of tube sampling in soft clay: a microstructural insight. Geotechnique, 2016, 66, 969-983.	4.0	17
168	Ultimate lateral resistance of tripod pile foundation in clay. Computers and Geotechnics, 2017, 92, 220-228.	4.7	17
169	Granular contact dynamics with elastic bond model. Acta Geotechnica, 2017, 12, 479-493.	5.7	17
170	Application of kinetic models to the design of a calcite permeable reactive barrier (PRB) for fluoride remediation. Water Research, 2018, 130, 300-311.	11.3	17
171	An alternative updated Lagrangian formulation for finite particle method. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 490-505.	6.6	17
172	Cavity expansion of a gradient-dependent solid cylinder. International Journal of Solids and Structures, 2007, 44, 4342-4368.	2.7	16
173	Effect of loading direction on the ultimate lateral soil pressure of two piles in clay. Geotechnique, 2013, 63, 1170-1175.	4.0	16
174	Erratum to â€œInterpretation of unsaturated soil behaviour in the stressâ€"saturation space II: Constitutive relationships and validationsâ€™â€™. Computers and Geotechnics, 2012, 43, 177.	4.7	15
175	Modelling Coastal Cliff Recession Based on the GIMâ€"DDD Method. Rock Mechanics and Rock Engineering, 2018, 51, 1077-1095.	5.4	15
176	Truncation error and stability analysis of iterative and non-iterative Thomasâ€"Gladwell methods for first-order non-linear differential equations. International Journal for Numerical Methods in Engineering, 2004, 60, 2031-2043.	2.8	14
177	One-dimensional test problems for dynamic consolidation. Acta Geotechnica, 2015, 10, 173-178.	5.7	14
178	Use of photo-based 3D photogrammetry in analysing the results of laboratory pressure grouting tests. Acta Geotechnica, 2018, 13, 1129-1140.	5.7	14
179	Numerical Study for Compaction-Grouted Soil Nails with Multiple Grout Bulbs. International Journal of Geomechanics, 2019, 19, .	2.7	14
180	A direct comparison of three algorithms for reducing profile and wavefront. Computers and Structures, 1989, 33, 411-419.	4.4	13

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181	Analysis of plane Couette shear test of granular media in a Cosserat continuum approach. Mechanics of Materials, 2014, 69, 106-115.	3.2	13
182	A stress integration scheme for elasto-plastic response of unsaturated soils subjected to large deformations. Computers and Geotechnics, 2018, 94, 231-246.	4.7	13
183	Development of a Model Test System for Studying the Behaviour of a Compaction Grouted Soil Nail under Unsaturated Conditions. Geotechnical Testing Journal, 2017, 40, 20160229.	1.0	13
184	Accelerated initial stiffness schemes for elastoplasticity. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 24, 579-599.	3.3	12
185	Mesh generation for lower bound limit analysis. Advances in Engineering Software, 2003, 34, 321-338.	3.8	12
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