# Scott Sloan

## List of Publications by Year in descending order

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|---|---|---|---|
| 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 | Physical modelling of lateral sandâ€“pipe interaction. Geotechnique, 2021, 71, 60-75. | 4.0 | 21 |
| 2 | Numerical integration of an elasto-plastic critical state model for soils under unsaturated conditions. Computers and Geotechnics, 2021, 137, 104299. | 4.7 | 3 |
| 3 | Shakedown analysis of ballasted track structure using three-dimensional finite element techniques. Acta Geotechnica, 2020, 15, 1231-1241. | 5.7 | 9 |
| 4 | 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 |
| 5 | Threeâ€dimensional finite element simulation of fracture propagation in rock specimens with preâ€existing fissure(s) under compression and their strength analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1472-1494. | 3.3 | 11 |
| 6 | Response to discussion on â€œA smooth hyperbolic approximation to the Generalised Classical yield function, including a true inner rounding of the Mohr-Coulomb deviatoric sectionâ€• Computers and Geotechnics, 2019, 106, 350. | 4.7 | 1 |
| 7 | The influence of the degree of saturation on compaction-grouted soil nails in sand. Acta Geotechnica, 2019, 14, 1101-1111. | 5.7 | 20 |
| 8 | Performance of a compaction-grouted soil nail in laboratory tests. Acta Geotechnica, 2019, 14, 1049-1063. | 5.7 | 22 |
| 9 | Effects of grout injection techniques in pressure grouted soil nail system. E3S Web of Conferences, 2019, 92, 17010. | 0.5 | 1 |
| 10 | 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 |
| 11 | Designing waste rock barriers by advanced numerical modelling. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 659-675. | 8.1 | 4 |
| 12 | Modelling Rock Failure with a Novel Continuous to Discontinuous Method. Rock Mechanics and Rock Engineering, 2019, 52, 3183-3195. | 5.4 | 19 |
| 13 | Bayesian updating for progressive excavation of high rock slopes using multi-type monitoring data. Engineering Geology, 2019, 252, 1-13. | 6.3 | 42 |
| 14 | An alternative updated Lagrangian formulation for finite particle method. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 490-505. | 6.6 | 17 |
| 15 | Finite element modelling of prefabricated vertical drains using 1D drainage elements with attached smear zones. Computers and Geotechnics, 2019, 107, 235-254. | 4.7 | 4 |
| 16 | Numerical Study for Compaction-Grouted Soil Nails with Multiple Grout Bulbs. International Journal of Geomechanics, 2019, 19, . | 2.7 | 14 |
| 17 | Effect of geometric nonlinearity on the ultimate lateral resistance of piles in clay. Computers and Geotechnics, 2019, 105, 110-115. | 4.7 | 7 |
| 18 | Pore Pressure Response to Dynamically Installed Penetrometers. International Journal of Geomechanics, 2018, 18, 04018061. | 2.7 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Development of a prototype for modelling soilâ€“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 |
| 20 | 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 |
| 21 | Modelling Coastal Cliff Recession Based on the GIMâ€“DDD Method. Rock Mechanics and Rock Engineering, 2018, 51, 1077-1095. | 5.4 | 15 |
| 22 | Embankment prediction using testing data and monitored behaviour: A Bayesian updating approach. Computers and Geotechnics, 2018, 93, 150-162. | 4.7 | 50 |
| 23 | Outcomes of the Newcastle symposium for the prediction of embankment behaviour on soft soil. Computers and Geotechnics, 2018, 93, 9-41. | 4.7 | 42 |
| 24 | 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 |
| 25 | A smooth hyperbolic approximation to the Generalised Classical yield function, including a true inner rounding of the Mohr-Coulomb deviatoric section. Computers and Geotechnics, 2018, 104, 331-357. | 4.7 | 12 |
| 26 | 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 |
| 27 | The thermal conductivity decomposition of calcite calculated by molecular dynamics simulation. Computational Materials Science, 2018, 141, 170-179. | 3.0 | 22 |
| 28 | Use of photo-based 3D photogrammetry in analysing the results of laboratory pressure grouting tests. Acta Geotechnica, 2018, 13, 1129-1140. | 5.7 | 14 |
| 29 | R-adaptivity in Limit Analysis. , 2018, , 73-84. | | 0 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Discrete modelling jointed rock slopes using mathematical programming methods. Computers and Geotechnics, 2018, 96, 189-202. | 4.7 | 44 |
| 34 | Stability analysis of unsaturated soil slopes under random rainfall patterns. Engineering Geology, 2018, 245, 322-332. | 6.3 | 62 |
| 35 | 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 |
| 36 | The Study of the Compaction Grouted Soil Nail with Multiple Grout Bulks Using Finite Element Method. , 2018, , 338-345. | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Measured and Predicted Response of a Post-grouted Pile in Cohesionless Soil. Springer Series in Geomechanics and Geoengineering, 2018, , 1051-1054. | 0.1 | 2 |
| 38 | Gravity Grouting and Its Future Alternative for Soil Reinforcement Systems. Springer Series in Geomechanics and Geoengineering, 2018, , 898-901. | 0.1 | 1 |
| 39 | Application of the third medium method for frictionless contact problems in geomechanics. Computers and Geotechnics, 2017, 85, 117-125. | 4.7 | 4 |
| 40 | 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 |
| 41 | Undrained stability of rectangular tunnels where shear strength increases linearly with depth. Canadian Geotechnical Journal, 2017, 54, 469-480. | 2.8 | 34 |
| 42 | 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 |
| 43 | Numerical Investigation of Rockfall Impacts on Muckpiles for Underground Portals. Rock Mechanics and Rock Engineering, 2017, 50, 1569-1583. | 5.4 | 10 |
| 44 | 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 |
| 45 | 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 |
| 46 | Probabilistic stability assessment using adaptive limit analysis and random fields. Acta Geotechnica, 2017, 12, 937-948. | 5.7 | 51 |
| 47 | Experimental investigation of compaction-grouted soil nails. Canadian Geotechnical Journal, 2017, 54, 1728-1738. | 2.8 | 30 |
| 48 | On the application of the maximum entropy meshfree method for elastoplastic geotechnical analysis. Computers and Geotechnics, 2017, 84, 68-77. | 4.7 | 9 |
| 49 | Ultimate lateral resistance of tripod pile foundation in clay. Computers and Geotechnics, 2017, 92, 220-228. | 4.7 | 17 |
| 50 | Impact of Barium and Cadmium on Defluoridation by Calcite: Batch Reactor and Column Tests. Environmental Engineering Science, 2017, 34, 792-804. | 1.6 | 1 |
| 51 | 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 |
| 52 | Granular contact dynamics with elastic bond model. Acta Geotechnica, 2017, 12, 479-493. | 5.7 | 17 |
| 53 | Non-axisymmetric response of piles in low-strain integrity testing. Geotechnique, 2017, 67, 181-186. | 4.0 | 34 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Error behaviour in explicit integration algorithms with automatic substepping. International Journal for Numerical Methods in Engineering, 2016, 108, 1030-1053. | 2.8 | 21 |
| 57 | Analytical solution and numerical simulation of vacuum consolidation by vertical drains beneath circular embankments. Computers and Geotechnics, 2016, 80, 83-96. | 4.7 | 41 |
| 58 | Degree of saturation effect on the grout-soil interface shear strength of soil nailing. E3S Web of Conferences, 2016, 9, 15007. | 0.5 | 5 |
| 59 | Characterization of the secondary swelling of compacted Maryland clay. E3S Web of Conferences, 2016, 9, 09004. | 0.5 | 2 |
| 60 | Second-order cone programming formulation for consolidation analysis of saturated porous media. Computational Mechanics, 2016, 58, 29-43. | 4.0 | 31 |
| 61 | 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 |
| 62 | Coupled analysis of dynamically penetrating anchors. Computers and Geotechnics, 2016, 77, 26-44. | 4.7 | 32 |
| 63 | An isotach elastoplastic constitutive model for natural soft clays. Computers and Geotechnics, 2016, 77, 134-155. | 4.7 | 31 |
| 64 | Experimental Study on an Ideal Compaction Grouting into Sand. , 2016, , . | | 5 |
| 65 | On Application of the Maximum Entropy Meshless Method for Large Deformation Analysis of Geotechnical Problems. Applied Mechanics and Materials, 2016, 846, 331-335. | 0.2 | 1 |
| 66 | A Simplified Kinematic Method for 3D Limit Analysis. Applied Mechanics and Materials, 2016, 846, 342-347. | 0.2 | 2 |
| 67 | Characterisation of Ballina clay. Geotechnique, 2016, 66, 556-577. | 4.0 | 94 |
| 68 | Effects of tube sampling in soft clay: a microstructural insight. Geotechnique, 2016, 66, 969-983. | 4.0 | 17 |
| 69 | 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 |
| 70 | 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 |
| 71 | Quasi-static collapse of two-dimensional granular columns: insight from continuum modelling. Granular Matter, 2016, 18, 1. | 2.2 | 25 |
| 72 | Multi-scale characterization of swelling behaviour of compacted Maryland clay. Acta Geotechnica, 2016, 11, 789-804. | 5.7 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A revised solution for the horizontal vibration of an endâ€bearing pile in viscoelastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1890-1900. | 3.3 | 18 |
| 74 | Experimental investigation of pressure grouting in sand. Soils and Foundations, 2016, 56, 161-173. | 3.1 | 58 |
| 75 | Updating reliability of single piles and pile groups by load tests. Computers and Geotechnics, 2016, 73, 221-230. | 4.7 | 31 |
| 76 | Reply to discussion on â€œNumerical study on finite element implementation of hypoplastic modelsâ€•by Yutang Ding, Wenxiong Huang, Daichao Sheng, and Scott W. Sloan [Comput. Geotech. 68 (2015) 78â€“90]. Computers and Geotechnics, 2016, 71, 278-280. | 4.7 | 0 |
| 77 | Modelling the plastic anisotropy of Lower Cromer Till. Computers and Geotechnics, 2015, 69, 22-37. | 4.7 | 29 |
| 78 | Nonlinear radial consolidation of vertical drains under a general timeâ€variable loading. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 51-62. | 3.3 | 28 |
| 79 | Stochastic assessment for the behaviour of systems of dry soil mix columns. Computers and Geotechnics, 2015, 66, 75-84. | 4.7 | 8 |
| 80 | One-dimensional test problems for dynamic consolidation. Acta Geotechnica, 2015, 10, 173-178. | 5.7 | 14 |
| 81 | Kinetic model selection and the Hill model in geochemistry. International Journal of Environmental Science and Technology, 2015, 12, 2545-2558. | 3.5 | 31 |
| 82 | DEM modelling of shear localization in a plane Couette shear test of granular materials. Acta Geotechnica, 2015, 10, 389-397. | 5.7 | 10 |
| 83 | Vertical vibration of an elastic pile embedded in poroelastic soil. Soil Dynamics and Earthquake Engineering, 2015, 77, 177-181. | 3.8 | 32 |
| 84 | 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 |
| 85 | Numerical study on finite element implementation of hypoplastic models. Computers and Geotechnics, 2015, 68, 78-90. | 4.7 | 19 |
| 86 | Nonlinear consolidation of vertical drains with coupled radialâ€“vertical flow considering well resistance. Geotextiles and Geomembranes, 2015, 43, 182-189. | 4.6 | 48 |
| 87 | 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 |
| 88 | Undrained stability of dual square tunnels. Acta Geotechnica, 2015, 10, 665-682. | 5.7 | 49 |
| 89 | Numerical investigation of the cylinder movement in granular matter. Physical Review E, 2015, 91, 022204. | 2.1 | 18 |
| 90 | Comparison of finite-element limit analysis and strength reduction techniques. Geotechnique, 2015, 65, 249-257. | 4.0 | 94 |

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|---|---|---|---|
| 91 | 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 |
| 92 | Undrained uplift capacity of deeply embedded strip anchors in non-uniform soil. Computers and Geotechnics, 2015, 70, 41-49. | 4.7 | 17 |
| 93 | Kinetics of fluoride removal from spent pot liner leachate (SPLL) contaminated groundwater. Journal of Environmental Chemical Engineering, 2015, 3, 2580-2587. | 6.7 | 35 |
| 94 | 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 |
| 95 | Application of bounding surface plasticity concept for clay-fouled ballast under drained loading. Computers and Geotechnics, 2015, 70, 96-105. | 4.7 | 19 |
| 96 | Analysis of buried pipelines subjected to ground surface settlement and heave. Canadian Geotechnical Journal, 2015, 52, 1058-1071. | 2.8 | 50 |
| 97 | Coupled discrete elementâ€“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 |
| 98 | Mathematical Modeling and Experimental Verification of Fluid Flow through Deformable Rough Rock Joints. International Journal of Geomechanics, 2015, 15, . | 2.7 | 18 |
| 99 | Soil-buried pipeline interaction for vertical downwards relative offset. Canadian Geotechnical Journal, 2014, 51, 1087-1094. | 2.8 | 30 |
| 100 | Undrained Stability of Dual Circular Tunnels. International Journal of Geomechanics, 2014, 14, 69-79. | 2.7 | 50 |
| 101 | Large deformation dynamic analysis of saturated porous media with applications to penetration problems. Computers and Geotechnics, 2014, 55, 117-131. | 4.7 | 53 |
| 102 | Analysis of plane Couette shear test of granular media in a Cosserat continuum approach. Mechanics of Materials, 2014, 69, 106-115. | 3.2 | 13 |
| 103 | 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 |
| 104 | Material Point Method Modelling of Granular Flow in Inclined Channels. Applied Mechanics and Materials, 2014, 553, 501-506. | 0.2 | 3 |
| 105 | Boundary effects of rainfall-induced landslides. Computers and Geotechnics, 2014, 61, 341-354. | 4.7 | 63 |
| 106 | Simplified quantitative risk assessment of rainfall-induced landslides modelled by infinite slopes. Engineering Geology, 2014, 179, 102-116. | 6.3 | 108 |
| 107 | Stability of dual square tunnels in cohesive-frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2014, 51, 829-843. | 2.8 | 39 |
| 108 | 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 |

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|---|---|---|---|
| 109 | 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 |
| 110 | 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 |
| 111 | A constitutive model for coal-fouled ballast capturing the effects of particle degradation. Computers and Geotechnics, 2014, 61, 96-107. | 4.7 | 57 |
| 112 | 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 |
| 113 | Quantitative risk assessment of landslide by limit analysis and random fields. Computers and Geotechnics, 2013, 53, 60-67. | 4.7 | 177 |
| 114 | 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 |
| 115 | Perforation of Flexible Rockfall Barriers by Normal Block Impact. Rock Mechanics and Rock Engineering, 2013, 46, 515-526. | 5.4 | 27 |
| 116 | Sandâ€“pipelineâ€“trench lateral interaction effects for shallow buried pipelines. Computers and Geotechnics, 2013, 54, 53-59. | 4.7 | 44 |
| 117 | Undrained limiting lateral soil pressure on a row of piles. Computers and Geotechnics, 2013, 54, 175-184. | 4.7 | 28 |
| 118 | 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 |
| 119 | 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 |
| 120 | Stability of dual circular tunnels in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2013, 50, 41-54. | 4.7 | 75 |
| 121 | Undrained stability of a square tunnel where the shear strength increases linearly with depth. Computers and Geotechnics, 2013, 49, 314-325. | 4.7 | 71 |
| 122 | Discrete modelling of hexagonal wire meshes with a stochastically distorted contact model. Computers and Geotechnics, 2013, 49, 158-169. | 4.7 | 66 |
| 123 | Statistical evaluation of rockfall energy ranges for different geological settings of New South Wales, Australia. Engineering Geology, 2013, 158, 57-65. | 6.3 | 19 |
| 124 | Ultimate lateral pressure of two side-by-side piles in clay. Geotechnique, 2013, 63, 733-745. | 4.0 | 29 |
| 125 | Geotechnical stability analysis. Geotechnique, 2013, 63, 531-571. | 4.0 | 510 |
| 126 | Undrained stability of wide rectangular tunnels. Computers and Geotechnics, 2013, 53, 46-59. | 4.7 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Effects of pCO2 on the Removal of Fluoride from Wastewater by Calcite. Journal of Environmental Engineering, ASCE, 2013, 139, 1053-1061. | 1.4 | 9 |
| 128 | Preliminary Study on Modeling Thermo-Hydro-Mechanical Coupling Behavior of Unsaturated Soils Based on Hybrid Mixture Theory. , 2013, , . | | 2 |
| 129 | Effect of loading direction on the ultimate lateral soil pressure of two piles in clay. Geotechnique, 2013, 63, 1170-1175. | 4.0 | 16 |
| 130 | Rockfall Hazard Analysis From Discrete Fracture Network Modelling with Finite Persistence Discontinuities. Rock Mechanics and Rock Engineering, 2012, 45, 871. | 5.4 | 28 |
| 131 | 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 |
| 132 | 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 |
| 133 | Numerical analysis of the failure process around a circular opening in rock. Computers and Geotechnics, 2012, 39, 8-16. | 4.7 | 72 |
| 134 | Interpretation of unsaturated soil behaviour in the stressâ€“saturation space. Computers and Geotechnics, 2012, 43, 111-123. | 4.7 | 83 |
| 135 | A comparative study of stress integration methods for the Barcelona Basic Model. Computers and Geotechnics, 2012, 44, 22-33. | 4.7 | 25 |
| 136 | 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 |
| 137 | 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 |
| 138 | Numerical simulation of the failure process of unreinforced masonry walls due to concentrated static and dynamic loading. International Journal of Solids and Structures, 2012, 49, 377-394. | 2.7 | 11 |
| 139 | Refined h-adaptive finite element procedure for large deformation geotechnical problems. Computational Mechanics, 2012, 49, 21-33. | 4.0 | 21 |
| 140 | Stability of a single tunnel in cohesiveâ€“frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2011, 48, 1841-1854. | 2.8 | 83 |
| 141 | Undrained stability of a circular tunnel where the shear strength increases linearly with depth. Canadian Geotechnical Journal, 2011, 48, 1328-1342. | 2.8 | 99 |
| 142 | Undrained Stability of Footings on Slopes. International Journal of Geomechanics, 2011, 11, 381-390. | 2.7 | 93 |
| 143 | A C2 continuous approximation to the Mohrâ€“Coulomb yield surface. International Journal of Solids and Structures, 2011, 48, 3001-3010. | 2.7 | 66 |
| 144 | Numerical Study of Failure Mechanism of Serial and Parallel Rock Pillars. Rock Mechanics and Rock Engineering, 2011, 44, 179-198. | 5.4 | 56 |

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|---|---|---|---|
| 145 | Stability of a circular tunnel in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2011, 38, 504-514. | 4.7 | 116 |
| 146 | Applications of Adaptive Time Stepping in Analysis of Biot Consolidation. , 2010, , . | | 0 |
| 147 | Elastic finite element analysis on crossâ€sections of random hollow sphere structures. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 250-256. | 0.9 | 4 |
| 148 | Impact of Phosphate on Fluoride Removal by Calcite. Environmental Engineering Science, 2010, 27, 643-650. | 1.6 | 32 |
| 149 | Use of expanding polyurethane resin to remediate expansive soil foundations. Canadian Geotechnical Journal, 2010, 47, 623-634. | 2.8 | 78 |
| 150 | Reply to Comments on â€œUnsaturated soils: From constitutive modelling to numerical algorithmsâ€•by Daichao Sheng, Antonio Gens, Delwyn G. Fredlund and Scott W. Sloan [Computers and Geotechnics 35(6) (2008) 810â€“824] by Jingshuang Li, Yichuan Xing and Yujing Hou. Computers and Geotechnics, 2009, 36, 1100. | 4.7 | 0 |
| 151 | Alternative stress-integration schemes for large-deformation problems of solid mechanics. Finite Elements in Analysis and Design, 2009, 45, 934-943. | 3.2 | 28 |
| 152 | Bearing Capacity and Failure Mechanism of Different Types of Foundations on Sand. Soils and Foundations, 2009, 49, 305-314. | 3.1 | 10 |
| 153 | Incorporating a predefined limit condition in a hypoplastic model by means of stress transformation. Mechanics of Materials, 2008, 40, 796-802. | 3.2 | 8 |
| 154 | Unsaturated soils: From constitutive modelling to numerical algorithms. Computers and Geotechnics, 2008, 35, 810-824. | 4.7 | 123 |
| 155 | Arbitrary Lagrangianâ€“Eulerian method for largeâ€strain consolidation problems. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1023-1050. | 3.3 | 88 |
| 156 | Stress update algorithm for elastoplastic models with nonconvex yield surfaces. International Journal for Numerical Methods in Engineering, 2008, 76, 2029-2062. | 2.8 | 23 |
| 157 | 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 |
| 158 | Elastoplastic prediction of hydro-mechanical behaviour of unsaturated soils under undrained conditions. Computers and Geotechnics, 2008, 35, 845-852. | 4.7 | 68 |
| 159 | Bounds for shakedown of cohesive-frictional materials under moving surface loads. International Journal of Solids and Structures, 2008, 45, 3290-3312. | 2.7 | 35 |
| 160 | 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 |
| 161 | Finite Element Limit Analysis of Passive Earth Resistance in Cohesionless Soils. Soils and Foundations, 2008, 48, 843-850. | 3.1 | 65 |
| 162 | Prediction of Pressure and Density Dependent Failure in Sand-Like Granular Materials under General Stress Conditions. Key Engineering Materials, 2007, 340-341, 1243-1248. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Two- and three-dimensional bearing capacity of footings in sand. Geotechnique, 2007, 57, 647-662. | 4.0 | 110 |
| 164 | Application of Frictional Contact in Geotechnical Engineering. International Journal of Geomechanics, 2007, 7, 176-185. | 2.7 | 28 |
| 165 | An interior-point algorithm for elastoplasticity. International Journal for Numerical Methods in Engineering, 2007, 69, 592-626. | 2.8 | 113 |
| 166 | Limit theorems for gradient-dependent elastoplastic geomaterials. International Journal of Solids and Structures, 2007, 44, 480-506. | 2.7 | 8 |
| 167 | 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 |
| 168 | Formulation and solution of some plasticity problems as conic programs. International Journal of Solids and Structures, 2007, 44, 1533-1549. | 2.7 | 273 |
| 169 | Cavity expansion of a gradient-dependent solid cylinder. International Journal of Solids and Structures, 2007, 44, 4342-4368. | 2.7 | 16 |
| 170 | Elastoplastic modelling of hydraulic and stressâ€“strain behaviour of unsaturated soils. Mechanics of Materials, 2007, 39, 212-221. | 3.2 | 151 |
| 171 | The ultimate pullout capacity of anchors in frictional soils. Canadian Geotechnical Journal, 2006, 43, 852-868. | 2.8 | 223 |
| 172 | Three-dimensional lower-bound solutions for the stability of plate anchors in sand. Geotechnique, 2006, 56, 123-132. | 4.0 | 81 |
| 173 | Improved numerical algorithms for frictional contact in pile penetration analysis. Computers and Geotechnics, 2006, 33, 341-354. | 4.7 | 29 |
| 174 | A simple hypoplastic model for normally consolidated clay. Acta Geotechnica, 2006, 1, 15-27. | 5.7 | 39 |
| 175 | Numerical limit analysis solutions for the bearing capacity factor NÎ³. International Journal of Solids and Structures, 2005, 42, 1681-1704. | 2.7 | 170 |
| 176 | Explicit stress integration of complex soil models. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 1209-1229. | 3.3 | 70 |
| 177 | A new discontinuous upper bound limit analysis formulation. International Journal for Numerical Methods in Engineering, 2005, 63, 1069-1088. | 2.8 | 282 |
| 178 | Lower bound limit analysis with adaptive remeshing. International Journal for Numerical Methods in Engineering, 2005, 63, 1961-1974. | 2.8 | 94 |
| 179 | Formulation of non-standard dissipative behavior of geomaterials. Journal of Engineering Mathematics, 2005, 52, 147-165. | 1.2 | 1 |
| 180 | Bifurcation analysis for shear localization in non-polar and micro-polar hypoplastic continua. Journal of Engineering Mathematics, 2005, 52, 167-184. | 1.2 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Bifurcation analysis for shear localization in non-polar and micro-polar hypoplastic continua. Journal of Engineering Mathematics, 2005, 52, 167-184. | 1.2 | 10 |
| 182 | Formulation of non-standard dissipative behavior of geomaterials. Journal of Engineering Mathematics, 2005, 52, 147-165. | 1.2 | 4 |
| 183 | Bifurcation analysis for shear localization in non-polar and micro-polar hypoplastic continua. , 2005, , 167-184. | | 2 |
| 184 | A constitutive model for unsaturated soils: thermomechanical and computational aspects. Computational Mechanics, 2004, 33, 453-465. | 4.0 | 246 |
| 185 | Finite element analysis of cone penetration in cohesionless soil. Computers and Geotechnics, 2004, 31, 517-528. | 4.7 | 78 |
| 186 | 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 |
| 187 | Lower bound solutions for bearing capacity of jointed rock. Computers and Geotechnics, 2004, 31, 23-36. | 4.7 | 35 |
| 188 | Bearing capacity of a cohesive-frictional soil under non-eccentric inclined loading. Computers and Geotechnics, 2004, 31, 491-516. | 4.7 | 39 |
| 189 | Time stepping schemes for coupled displacement and pore pressur? analysis. Computational Mechanics, 2003, 31, 122-134. | 4.0 | 30 |
| 190 | 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 |
| 191 | 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 |
| 192 | Stability of an undrained plane strain heading revisited. Computers and Geotechnics, 2003, 30, 419-430. | 4.7 | 95 |
| 193 | Mesh generation for lower bound limit analysis. Advances in Engineering Software, 2003, 34, 321-338. | 3.8 | 12 |
| 194 | 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 |
| 195 | Bearing capacity of a sand layer on clay by finite element limit analysis. Canadian Geotechnical Journal, 2003, 40, 900-915. | 2.8 | 104 |
| 196 | Prediction of Undrained Sinkhole Collapse. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 197-205. | 3.0 | 87 |
| 197 | Undrained Stability of Braced Excavations in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 738-755. | 3.0 | 88 |
| 198 | Behaviour of interfacial layer along granular soil-structure interfaces. Structural Engineering and Mechanics, 2003, 15, 315-329. | 1.0 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | An Automatic Newtonâ€Raphson Scheme. International Journal of Geomechanics, 2002, 2, 471-502. | 2.7 | 11 |
| 200 | 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 |
| 201 | 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 |
| 202 | Lower bound limit analysis using non-linear programming. International Journal for Numerical Methods in Engineering, 2002, 55, 573-611. | 2.8 | 427 |
| 203 | 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 |
| 204 | Load stepping schemes for critical state models. International Journal for Numerical Methods in Engineering, 2001, 50, 67-93. | 2.8 | 34 |
| 205 | Refined explicit integration of elastoplastic models with automatic error control. Engineering Computations, 2001, 18, 121-194. | 1.4 | 315 |
| 206 | Accelerated initial stiffness schemes for elastoplasticity. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 24, 579-599. | 3.3 | 12 |
| 207 | Aspects of finite element implementation of critical state models. Computational Mechanics, 2000, 26, 185-196. | 4.0 | 203 |
| 208 | Undrained Limit Analyses for Combined Loading of Strip Footings on Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 1028-1029. | 3.0 | 1 |
| 209 | Closure to â€œUndrained Limit Analyses for Combined Loading of Strip Footings on Clayâ€•by Boonchai Ukritchon, Andrew J. Whittle, and Scott W. Sloan. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 1029-1029. | 3.0 | 0 |
| 210 | 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 |
| 211 | 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 |
| 212 | Limit Analysis versus Limit Equilibrium for Slope Stability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 914-918. | 3.0 | 5 |
| 213 | Rigorous plasticity solutions for the bearing capacity of two-layered clays. Geotechnique, 1999, 49, 471-490. | 4.0 | 109 |
| 214 | Limit Analysis versus Limit Equilibrium for Slope Stability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 1-11. | 3.0 | 218 |
| 215 | 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 |
| 216 | Finite element limit analysis of reinforced soils. Computers and Structures, 1997, 63, 567-577. | 4.4 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Upper bound limit analysis using discontinuous velocity fields. Computer Methods in Applied Mechanics and Engineering, 1995, 127, 293-314. | 6.6 | 338 |
| 218 | A smooth hyperbolic approximation to the Mohr-Coulomb yield criterion. Computers and Structures, 1995, 54, 427-441. | 4.4 | 207 |
| 219 | A Note on Bearing Capacity of Soft Clays under Embankments. Journal of Geotechcnical Engineering, 1994, 120, 246-255. | 0.4 | 6 |
| 220 | A quadratic element for upper bound limit analysis. Engineering Computations, 1994, 11, 195-212. | 1.4 | 33 |
| 221 | Limit analysis of anisotropic soils using finite elements and linear programming. Mechanics Research Communications, 1994, 21, 545-554. | 1.8 | 28 |
| 222 | Upper-bound limit analysis of a rigid-plastic body with frictional interfaces. International Journal of Mechanical Sciences, 1994, 36, 219-229. | 6.7 | 10 |
| 223 | Undrained stability of a plane strain heading. Canadian Geotechnical Journal, 1994, 31, 443-450. | 2.8 | 44 |
| 224 | A fast algorithm for generating constrained delaunay triangulations. Computers and Structures, 1993, 47, 441-450. | 4.4 | 101 |
| 225 | 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 |
| 226 | Undrained Stability of Shallow Square Tunnel. Journal of Geotechcnical Engineering, 1991, 117, 1152-1173. | 0.4 | 69 |
| 227 | 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 |
| 228 | A FORTRAN program for profile and wavefront reduction. International Journal for Numerical Methods in Engineering, 1989, 28, 2651-2679. | 2.8 | 125 |
| 229 | A direct comparison of three algorithms for reducing profile and wavefront. Computers and Structures, 1989, 33, 411-419. | 4.4 | 13 |
| 230 | 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 |
| 231 | 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 |
| 232 | An algorithm for profile and wavefront reduction of sparse matrices. International Journal for Numerical Methods in Engineering, 1986, 23, 239-251. | 2.8 | 157 |
| 233 | 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 |
| 234 | A fast stiffness formulation for finite element analysis of two-dimensional solids. International Journal for Numerical Methods in Engineering, 1981, 17, 1313-1323. | 2.8 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | An Indirect Approach for Correlation of Permeability and Diffusion Coefficients. Defect and Diffusion Forum, 0, 283-286, 504-514. | 0.4 | 3 |
| 236 | Analysis of Inclined Strip Anchors in Sand Based on the Block Set Mechanism. Applied Mechanics and Materials, 0, 553, 422-427. | 0.2 | 4 |
| 237 | A Comparison of Conic Programming Software for Finite Element Limit Analysis. Applied Mechanics and Materials, 0, 553, 439-444. | 0.2 | 1 |
| 238 | Discretization Errors of Random Fields in Finite Element Analysis. Applied Mechanics and Materials, 0, 553, 405-409. | 0.2 | 5 |
| 239 | The Thermal Conductivity of Magnesite, Dolomite and Calcite as Determined by Molecular Dynamics Simulation. , 0, 19, 18-34. | | 7 |