

Andrei V Lyamin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8465379/publications.pdf>

Version: 2024-02-01

68
papers

4,863
citations

76196

40
h-index

106150

65
g-index

69
all docs

69
docs citations

69
times ranked

1884
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Rock mass trace line identification incorporated with grouping algorithm at tunnel faces. Tunnelling and Underground Space Technology, 2021, 110, 103810. | 3.0 | 17 |
| 2 | Finite particle method for static deformation problems solved using JFNK method. Computers and Geotechnics, 2020, 122, 103502. | 2.3 | 10 |
| 3 | Seismic Slope Stability Evaluation Considering Rock Mass Disturbance Varying in the Slope. KSCE Journal of Civil Engineering, 2019, 23, 1043-1054. | 0.9 | 9 |
| 4 | Computational plasticity algorithm for particle dynamics simulations. Computational Particle Mechanics, 2018, 5, 103-111. | 1.5 | 4 |
| 5 | Undrained stability of a single circular tunnel in spatially variable soil subjected to surcharge loading. Computers and Geotechnics, 2017, 84, 16-27. | 2.3 | 36 |
| 6 | Probabilistic stability assessment using adaptive limit analysis and random fields. Acta Geotechnica, 2017, 12, 937-948. | 2.9 | 51 |
| 7 | Parametric studies of disturbed rock slope stability based on finite element limit analysis methods. Computers and Geotechnics, 2017, 81, 155-166. | 2.3 | 41 |
| 8 | Direct computation of shakedown loads via incremental elastoplastic analysis. Finite Elements in Analysis and Design, 2016, 122, 39-48. | 1.7 | 2 |
| 9 | Rock slope stability analyses using extreme learning neural network and terminal steepest descent algorithm. Automation in Construction, 2016, 65, 42-50. | 4.8 | 38 |
| 10 | Strength reduction finite-element limit analysis. Geotechnique Letters, 2015, 5, 250-253. | 0.6 | 38 |
| 11 | Generalised Tresca criterion for undrained total stress analysis. Geotechnique Letters, 2015, 5, 313-317. | 0.6 | 28 |
| 12 | Parallel preconditioned conjugate gradient method for large sparse and highly ill-conditioned systems arising in computational geomechanics. International Journal of Computational Science and Engineering, 2015, 11, 409. | 0.4 | 1 |
| 13 | Three-dimensional slope stability assessment of two-layered undrained clay. Computers and Geotechnics, 2015, 70, 1-17. | 2.3 | 51 |
| 14 | Application of a GPU-accelerated hybrid preconditioned conjugate gradient approach for large 3D problems in computational geomechanics. Computers and Mathematics With Applications, 2015, 69, 1114-1131. | 1.4 | 9 |
| 15 | Undrained stability of dual square tunnels. Acta Geotechnica, 2015, 10, 665-682. | 2.9 | 49 |
| 16 | Comparison of finite-element limit analysis and strength reduction techniques. Geotechnique, 2015, 65, 249-257. | 2.2 | 94 |
| 17 | Trench Stability under Bentonite Pressure in Purely Cohesive Clay. International Journal of Geomechanics, 2014, 14, 151-157. | 1.3 | 27 |
| 18 | Slope Stability Analysis for Filled Slopes Using Finite Element Limit Analysis Method. , 2014, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Undrained Stability of Dual Circular Tunnels. International Journal of Geomechanics, 2014, 14, 69-79. | 1.3 | 50 |
| 20 | Boundary effects of rainfall-induced landslides. Computers and Geotechnics, 2014, 61, 341-354. | 2.3 | 63 |
| 21 | Simplified quantitative risk assessment of rainfall-induced landslides modelled by infinite slopes. Engineering Geology, 2014, 179, 102-116. | 2.9 | 108 |
| 22 | Stability of dual square tunnels in cohesive-frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2014, 51, 829-843. | 1.4 | 39 |
| 23 | Kinematic limit analysis of pullout capacity for plate anchors in sandy slopes. Structural Engineering and Mechanics, 2014, 51, 565-579. | 1.0 | 13 |
| 24 | Quantitative risk assessment of landslide by limit analysis and random fields. Computers and Geotechnics, 2013, 53, 60-67. | 2.3 | 177 |
| 25 | Undrained limiting lateral soil pressure on a row of piles. Computers and Geotechnics, 2013, 54, 175-184. | 2.3 | 28 |
| 26 | Stability of dual circular tunnels in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2013, 50, 41-54. | 2.3 | 75 |
| 27 | Statistical homogenization of elastic properties of cement paste based on X-ray microtomography images. International Journal of Solids and Structures, 2013, 50, 699-709. | 1.3 | 47 |
| 28 | Particle finite element analysis of large deformation and granular flow problems. Computers and Geotechnics, 2013, 54, 133-142. | 2.3 | 113 |
| 29 | Undrained stability of a square tunnel where the shear strength increases linearly with depth. Computers and Geotechnics, 2013, 49, 314-325. | 2.3 | 71 |
| 30 | Ultimate lateral pressure of two side-by-side piles in clay. Geotechnique, 2013, 63, 733-745. | 2.2 | 29 |
| 31 | Undrained stability of wide rectangular tunnels. Computers and Geotechnics, 2013, 53, 46-59. | 2.3 | 76 |
| 32 | Effect of loading direction on the ultimate lateral soil pressure of two piles in clay. Geotechnique, 2013, 63, 1170-1175. | 2.2 | 16 |
| 33 | Granular contact dynamics with particle elasticity. Granular Matter, 2012, 14, 607-619. | 1.1 | 39 |
| 34 | Associated computational plasticity schemes for nonassociated frictional materials. International Journal for Numerical Methods in Engineering, 2012, 90, 1089-1117. | 1.5 | 74 |
| 35 | Granular contact dynamics using mathematical programming methods. Computers and Geotechnics, 2012, 43, 165-176. | 2.3 | 60 |
| 36 | Parametric Monte Carlo studies of rock slopes based on the Hoek-Brown failure criterion. Computers and Geotechnics, 2012, 45, 11-18. | 2.3 | 59 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Stability of a single tunnel in cohesive-frictional soil subjected to surcharge loading. Canadian Geotechnical Journal, 2011, 48, 1841-1854. | 1.4 | 83 |
| 38 | Undrained stability of a circular tunnel where the shear strength increases linearly with depth. Canadian Geotechnical Journal, 2011, 48, 1328-1342. | 1.4 | 99 |
| 39 | Undrained Stability of Footings on Slopes. International Journal of Geomechanics, 2011, 11, 381-390. | 1.3 | 93 |
| 40 | A C2 continuous approximation to the Mohr-Coulomb yield surface. International Journal of Solids and Structures, 2011, 48, 3001-3010. | 1.3 | 66 |
| 41 | Effect of rock mass disturbance on the stability of rock slopes using the Hoek-Brown failure criterion. Computers and Geotechnics, 2011, 38, 546-558. | 2.3 | 88 |
| 42 | Stability of a circular tunnel in cohesive-frictional soil subjected to surcharge loading. Computers and Geotechnics, 2011, 38, 504-514. | 2.3 | 116 |
| 43 | Three-dimensional stability charts for slopes based on limit analysis methods. Canadian Geotechnical Journal, 2010, 47, 1316-1334. | 1.4 | 85 |
| 44 | Limit analysis solutions for three dimensional undrained slopes. Computers and Geotechnics, 2009, 36, 1330-1351. | 2.3 | 70 |
| 45 | Seismic rock slope stability charts based on limit analysis methods. Computers and Geotechnics, 2009, 36, 135-148. | 2.3 | 102 |
| 46 | ANN-based model for predicting the bearing capacity of strip footing on multi-layered cohesive soil. Computers and Geotechnics, 2009, 36, 503-516. | 2.3 | 125 |
| 47 | Bounds for shakedown of cohesive-frictional materials under moving surface loads. International Journal of Solids and Structures, 2008, 45, 3290-3312. | 1.3 | 35 |
| 48 | Finite Element Limit Analysis of Passive Earth Resistance in Cohesionless Soils. Soils and Foundations, 2008, 48, 843-850. | 1.3 | 65 |
| 49 | Two- and three-dimensional bearing capacity of footings in sand. Geotechnique, 2007, 57, 647-662. | 2.2 | 110 |
| 50 | An interior-point algorithm for elastoplasticity. International Journal for Numerical Methods in Engineering, 2007, 69, 592-626. | 1.5 | 113 |
| 51 | Formulation and solution of some plasticity problems as conic programs. International Journal of Solids and Structures, 2007, 44, 1533-1549. | 1.3 | 273 |
| 52 | Shakedown of a cohesive-frictional half-space subjected to rolling and sliding contact. International Journal of Solids and Structures, 2007, 44, 3998-4008. | 1.3 | 36 |
| 53 | Bounds to Shakedown Loads for a Class of Deviatoric Plasticity Models. Computational Mechanics, 2007, 39, 879-888. | 2.2 | 39 |
| 54 | Three-dimensional lower-bound solutions for the stability of plate anchors in sand. Geotechnique, 2006, 56, 123-132. | 2.2 | 81 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Numerical limit analysis solutions for the bearing capacity factor N_1^3 . International Journal of Solids and Structures, 2005, 42, 1681-1704. | 1.3 | 170 |
| 56 | A new discontinuous upper bound limit analysis formulation. International Journal for Numerical Methods in Engineering, 2005, 63, 1069-1088. | 1.5 | 282 |
| 57 | Lower bound limit analysis with adaptive remeshing. International Journal for Numerical Methods in Engineering, 2005, 63, 1961-1974. | 1.5 | 94 |
| 58 | Stability of Inclined Strip Anchors in Purely Cohesive Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 792-799. | 1.5 | 60 |
| 59 | Bearing capacity of a cohesive-frictional soil under non-eccentric inclined loading. Computers and Geotechnics, 2004, 31, 491-516. | 2.3 | 39 |
| 60 | Two- and three-dimensional bearing capacity of foundations in clay. Geotechnique, 2004, 54, 297-306. | 2.2 | 37 |
| 61 | Stability of an undrained plane strain heading revisited. Computers and Geotechnics, 2003, 30, 419-430. | 2.3 | 95 |
| 62 | Mesh generation for lower bound limit analysis. Advances in Engineering Software, 2003, 34, 321-338. | 1.8 | 12 |
| 63 | Three-Dimensional Lower Bound Solutions for Stability of Plate Anchors in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 243-253. | 1.5 | 127 |
| 64 | Bearing capacity of a sand layer on clay by finite element limit analysis. Canadian Geotechnical Journal, 2003, 40, 900-915. | 1.4 | 104 |
| 65 | Prediction of Undrained Sinkhole Collapse. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 197-205. | 1.5 | 87 |
| 66 | Lower bound limit analysis using non-linear programming. International Journal for Numerical Methods in Engineering, 2002, 55, 573-611. | 1.5 | 427 |
| 67 | A Comparison of Conic Programming Software for Finite Element Limit Analysis. Applied Mechanics and Materials, 0, 553, 439-444. | 0.2 | 1 |
| 68 | Discretization Errors of Random Fields in Finite Element Analysis. Applied Mechanics and Materials, 0, 553, 405-409. | 0.2 | 5 |