# Jonathan Knappett

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8108373/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 42 papers | 861 citations | 516710 16 h-index | 526287 27 g-index |
| 50 all docs | 50 docs citations | 50 times ranked | 608 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Control of screw pile installation to optimise performance for offshore energy applications. Geotechnique, 2023, 73, 234-249. | 4.0 | 10 |
| 2 | Centrifuge modelling of rootâ€“soil interaction of laterally loaded trees under different loading conditions. Geotechnique, 2023, 73, 766-780. | 4.0 | 7 |
| 3 | Thermally induced ratcheting of a thermo-active reinforced concrete pile in sand under sustained lateral load. Geotechnique, 2023, 73, 826-839. | 4.0 | 9 |
| 4 | Physical modelling to demonstrate the feasibility of screw piles for offshore jacket-supported wind energy structures. Geotechnique, 2022, 72, 108-126. | 4.0 | 23 |
| 5 | Centrifuge modelling of the use of discretely spaced energy pile row to reinforce unsaturated silt. Geotechnique, 2022, 72, 618-631. | 4.0 | 10 |
| 6 | Design Optimisation of Deep Pile Foundations Installed by Static Forces. , 2022, , . | | 0 |
| 7 | DRAM: A three-dimensional analytical model for the mobilisation of root reinforcement in direct shear conditions. Ecological Engineering, 2022, 179, 106621. | 3.6 | 2 |
| 8 | A finite element approach for determining the full loadâ€“displacement relationship of axially loaded shallow screw anchors, incorporating installation effects. Canadian Geotechnical Journal, 2021, 58, 565-582. | 2.8 | 23 |
| 9 | Nonlinear Lateral Response of RC Pile in Sand: Centrifuge and Numerical Modeling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 04021031. | 3.0 | 6 |
| 10 | Assessing single-helix screw pile geometry on offshore installation and axial capacity. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2021, 174, 512-529. | 1.6 | 9 |
| 11 | Modelling the seismic performance of root-reinforced slopes using the finite-element method. Geotechnique, 2020, 70, 375-391. | 4.0 | 15 |
| 12 | A critical evaluation of predictive models for rooted soil strength with application to predicting the seismic deformation of rooted slopes. Landslides, 2020, 17, 93-109. | 5.4 | 23 |
| 13 | Optimised design of screw anchors in tension in sand for renewable energy applications. Ocean Engineering, 2020, 217, 108010. | 4.3 | 11 |
| 14 | Small-scale modelling of root-soil interaction of trees under lateral loads. Plant and Soil, 2020, 456, 289-305. | 3.7 | 14 |
| 15 | Small-Scale Modeling of Thermomechanical Behavior of Reinforced Concrete Energy Piles in Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 04020011. | 3.0 | 12 |
| 16 | Effect of soil deformability on the failure mechanism of shallow plate or screw anchors in sand. Computers and Geotechnics, 2019, 109, 34-45. | 4.7 | 25 |
| 17 | Measuring the Strength of Root-Reinforced Soil on Steep Natural Slopes Using the Corkscrew Extraction Method. Forests, 2019, 10, 1135. | 2.1 | 5 |
| 18 | In situ root identification through blade penetrometer testing â€“ part 2: field testing. Geotechnique, 2018, 68, 320-331. | 4.0 | 10 |

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|---|---|---|---|
| 19 | In situ root identification through blade penetrometer testing â€“ part 1: interpretative models and laboratory testing. Geotechnique, 2018, 68, 303-319. | 4.0 | 5 |
| 20 | Centrifuge modelling of the influence of slope height on the seismic performance of rooted slopes. Geotechnique, 2017, 67, 855-869. | 4.0 | 35 |
| 21 | Modelling Screwpile Installation Using the MPM. Procedia Engineering, 2017, 175, 124-132. | 1.2 | 10 |
| 22 | Small-scale modelling of plant root systems using 3D printing, with applications to investigate the role of vegetation on earthquake-induced landslides. Landslides, 2017, 14, 1747-1765. | 5.4 | 49 |
| 23 | Newmark sliding block model for predicting the seismic performance of vegetated slopes. Soil Dynamics and Earthquake Engineering, 2017, 101, 27-40. | 3.8 | 11 |
| 24 | CHD pile performance: part I â€“ physical modelling. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 421-435. | 1.6 | 18 |
| 25 | Shake table testing of the dynamic interaction between two and three adjacent buildings (SSSI). Soil Dynamics and Earthquake Engineering, 2016, 89, 219-232. | 3.8 | 59 |
| 26 | New in situ techniques for measuring the properties of root-reinforced soil â€“ laboratory evaluation. Geotechnique, 2016, 66, 27-40. | 4.0 | 25 |
| 27 | CHD pile performance: part II â€“ numerical modelling. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 436-454. | 1.6 | 18 |
| 28 | The effect of buried fibres on offshore pipeline plough performance. Ocean Engineering, 2015, 108, 760-768. | 4.3 | 1 |
| 29 | Modelling the seismic performance of rooted slopes from individual rootâ€“soil interaction to global slope behaviour. Geotechnique, 2015, 65, 995-1009. | 4.0 | 55 |
| 30 | Newmark sliding block model for pile-reinforced slopes under earthquake loading. Soil Dynamics and Earthquake Engineering, 2015, 75, 265-278. | 3.8 | 16 |
| 31 | Modelling the seismic performance of rooted slopes from individual rootâ€“soil interaction to global slope behaviour. Geotechnique, 2015, , 1-15. | 4.0 | 2 |
| 32 | Use of Ricker motions as an alternative to pushover testing. International Journal of Physical Modelling in Geotechnics, 2015, 15, 44-55. | 0.6 | 4 |
| 33 | Centrifuge Modeling of the Seismic Performance of Pile-Reinforced Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, . | 3.0 | 53 |
| 34 | Effects of Axial Load and Slope Arrangement on Pile Group Response in Laterally Spreading Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 799-809. | 3.0 | 21 |
| 35 | Small-Scale Modeling of Reinforced Concrete Structural Elements for Use in a Geotechnical Centrifuge. Journal of Structural Engineering, 2011, 137, 1263-1271. | 3.4 | 37 |
| 36 | Lateral Spreading Forces on Bridge Piers and Pile Caps in Laterally Spreading Soil: Effect of Angle of Incidence. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1589-1599. | 3.0 | 11 |

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|---|---|---|---|
| 37 | Regional variation in the biomechanical properties of the human sclera. Experimental Eye Research, 2010, 90, 624-633. | 2.6 | 126 |
| 38 | Liquefaction-Induced Settlement of Pile Groups in Liquefiable and Laterally Spreading Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 1609-1618. | 3.0 | 27 |
| 39 | Mechanism of Pile Group Settlement in Liquefiable Soils. , 2008, , . | | 4 |
| 40 | Discussion: Seismic behaviour of micropile systems. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2006, 10, 173-175. | 1.0 | 0 |
| 41 | Effect of soil permeability on soilâ€“structure and structureâ€“soilâ€“structure interaction of low-rise structures. Geotechnique, 0, , 1-16. | 4.0 | 4 |
| 42 | Craigâ€™s Soil Mechanics. , 0, , . | | 20 |