Jonathan Knappett

List of Publications by Year
in descending order

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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	Regional variation in the biomechanical properties of the human sclera. Experimental Eye Research, 2010, 90, 624-633.	2.6	126
2	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
3	Modelling the seismic performance of rooted slopes from individual rootâ€“soil interaction to global slope behaviour. Geotechnique, 2015, 65, 995-1009.	4.0	55
4	Centrifuge Modeling of the Seismic Performance of Pile-Reinforced Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	53
5	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
6	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
7	Centrifuge modelling of the influence of slope height on the seismic performance of rooted slopes. Geotechnique, 2017, 67, 855-869.	4.0	35
8	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
9	New in situ techniques for measuring the properties of root-reinforced soil â€“ laboratory evaluation. Geotechnique, 2016, 66, 27-40.	4.0	25
10	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
11	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
12	Physical modelling to demonstrate the feasibility of screw piles for offshore jacket-supported wind energy structures. Geotechnique, 2022, 72, 108-126.	4.0	23
13	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
14	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
15	Craigâ€™s Soil Mechanics. , 0, , .		20
16	CHD pile performance: part I â€“ physical modelling. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 421-435.	1.6	18
17	CHD pile performance: part II â€“ numerical modelling. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 436-454.	1.6	18
18	Newmark sliding block model for pile-reinforced slopes under earthquake loading. Soil Dynamics and Earthquake Engineering, 2015, 75, 265-278.	3.8	16

#	Article	IF	Citations
19	Modelling the seismic performance of root-reinforced slopes using the finite-element method. Geotechnique, 2020, 70, 375-391.	4.0	15
20	Small-scale modelling of root-soil interaction of trees under lateral loads. Plant and Soil, 2020, 456, 289-305.	3.7	14
21	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
22	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
23	Optimised design of screw anchors in tension in sand for renewable energy applications. Ocean Engineering, 2020, 217, 108010.	4.3	11
24	Newmark sliding block model for predicting the seismic performance of vegetated slopes. Soil Dynamics and Earthquake Engineering, 2017, 101, 27-40.	3.8	11
25	Modelling Screwpile Installation Using the MPM. Procedia Engineering, 2017, 175, 124-132.	1.2	10
26	In situ root identification through blade penetrometer testing â€“ part 2: field testing. Geotechnique, 2018, 68, 320-331.	4.0	10
27	Centrifuge modelling of the use of discretely spaced energy pile row to reinforce unsaturated silt. Geotechnique, 2022, 72, 618-631.	4.0	10
28	Control of screw pile installation to optimise performance for offshore energy applications. Geotechnique, 2023, 73, 234-249.	4.0	10
29	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
30	Thermally induced ratcheting of a thermo-active reinforced concrete pile in sand under sustained lateral load. Geotechnique, 2023, 73, 826-839.	4.0	9
31	Centrifuge modelling of rootâ€“soil interaction of laterally loaded trees under different loading conditions. Geotechnique, 2023, 73, 766-780.	4.0	7
32	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
33	In situ root identification through blade penetrometer testing â€“ part 1: interpretative models and laboratory testing. Geotechnique, 2018, 68, 303-319.	4.0	5
34	Measuring the Strength of Root-Reinforced Soil on Steep Natural Slopes Using the Corkscrew Extraction Method. Forests, 2019, 10, 1135.	2.1	5
35	Mechanism of Pile Group Settlement in Liquefiable Soils. , 2008, , .		4
36	Use of Ricker motions as an alternative to pushover testing. International Journal of Physical Modelling in Geotechnics, 2015, 15, 44-55.	0.6	4

#	Article	IF	Citations
37	Effect of soil permeability on soilâ€“structure and structureâ€“soilâ€“structure interaction of low-rise structures. Geotechnique, 0, , 1-16.	4.0	4
38	Modelling the seismic performance of rooted slopes from individual rootâ€“soil interaction to global slope behaviour. Geotechnique, 2015, , 1-15.	4.0	2
39	DRAM: A three-dimensional analytical model for the mobilisation of root reinforcement in direct shear conditions. Ecological Engineering, 2022, 179, 106621.	3.6	2
40	The effect of buried fibres on offshore pipeline plough performance. Ocean Engineering, 2015, 108, 760-768.	4.3	1
41	Discussion: Seismic behaviour of micropile systems. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2006, 10, 173-175.	1.0	0
42	Design Optimisation of Deep Pile Foundations Installed by Static Forces. , 2022, , .		0