Mark Jaksa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	1,723 citations	22 h-index	40 g-index
71 ext. papers	1,995 ext. citations	3.3 avg, IF	5.29 L-index

#	Paper	IF	Citations
70	Limit State and Creep Behaviour of High-Density Polyethylene Geocell. *International Journal of Geosynthetics and Ground Engineering*, **2021**, 7, 1	2	1
69	Depth of influence of rolling dynamic compaction. *Proceedings of the Institution of Civil Engineers: Ground Improvement*, **2021**, 174, 85-94	1	1
68	Characterising site investigation performance in multiple-layer soils and soil lenses. *Georisk*, **2021**, 15, 196-208	1.9	1
67	Improved Shear Strength Performance of Compacted Rubberized Clays Treated with Sodium Alginate Biopolymer. *Polymers*, **2021**, 13,	4.5	6
66	Discrete element modelling of the 4-sided impact roller. *Computers and Geotechnics*, **2021**, 137, 104250	4.4	0
65	Investigating the effectiveness of Rolling Dynamic Compaction (RDC) using Discrete Element Method (DEM). *Granular Matter*, **2021**, 23, 1	2.6	
64	Improved Geotechnical Behavior of an Expansive Soil Amended with Tire-Derived Aggregates Having Different Gradations. *Minerals (Basel, Switzerland)*, **2020**, 10, 923	2.4	19
63	Effect of borehole location on pile performance. *Georisk*, **2020**, 1-16	1.9	5
62	Three-Dimensional Discrete-Element Modeling of Geocell-Reinforced Ballast Considering Breakage. *International Journal of Geomechanics*, **2020**, 20, 04020032	3.1	10
61	A dimensional description of the unconfined compressive strength of artificially cemented fine-grained soils. *Journal of Adhesion Science and Technology*, **2020**, 34, 1679-1703	2	8
60	Failure mechanism and bearing capacity of vertically loaded pile with partially-screwed shaft: Experiment and simulations. *Computers and Geotechnics*, **2020**, 118, 103337	4.4	6
59	Optimal Testing Locations in Geotechnical Site Investigations through the Application of a Genetic Algorithm. *Geosciences (Switzerland)*, **2020**, 10, 265	2.7	4
58	Tyre rubber and expansive soils: two hazards, one solution. *Proceedings of Institution of Civil Engineers: Construction Materials*, **2020**, 1-17	0.8	14
57	Passive arching in rubberized sand backfills. *Canadian Geotechnical Journal*, **2020**, 57, 549-567	3.2	5
56	Application of Slag Cement and Fly Ash for Strength Development in Cemented Paste Backfills. *Minerals (Basel, Switzerland)*, **2019**, 9, 22	2.4	52
55	Identification of sample path smoothness in soil spatial variability. *Structural Safety*, **2019**, 81, 101870	4.9	25
54	Examining the kinematics and energy of the four-sided impact roller. *Proceedings of the Institution of Civil Engineers: Ground Improvement*, **2019**, 172, 297-304	1	3

53	Mechanical Performance of Jute Fiber-Reinforced Micaceous Clay Composites Treated with Ground-Granulated Blast-Furnace Slag. *Materials*, **2019**, 12,	3.5	24
52	Estimating near surface shear wave velocity using the SPAC method at a site exhibiting low to high impedance contrast. *Soil Dynamics and Earthquake Engineering*, **2019**, 122, 16-38	3.5	7
51	Consistency limits and compaction characteristics of clay soils containing rubber waste. *Proceedings of the Institution of Civil Engineers: Geotechnical Engineering*, **2019**, 172, 174-188	0.9	18
50	Experiments and dimensional analysis of contaminated clay soils. *Environmental Geotechnics*, **2019**, 6, 434-449	1.2	5
49	Mechanical behavior of micaceous clays. *Journal of Rock Mechanics and Geotechnical Engineering*, **2019**, 11, 1044-1054	5.3	10
48	Engineering Reactive Clay Systems by Ground Rubber Replacement and Polyacrylamide Treatment. *Polymers*, **2019**, 11,	4.5	20
47	Strength Development and Strain Localization Behavior of Cemented Paste Backfills Using Portland Cement and Fly Ash. *Materials*, **2019**, 12,	3.5	22
46	Swell–Shrink–Consolidation Behavior of Rubber–Reinforced Expansive Soils. *Geotechnical Testing Journal*, **2019**, 42, 20170313	1.3	28
45	A method for generating virtual soil profiles with complex, multi-layer stratigraphy. *Georisk*, **2019**, 13, 154-163	1.9	12
44	An experimental study of the active arching effect in soil using the digital image correlation technique. *Computers and Geotechnics*, **2019**, 108, 183-196	4.4	15
43	Failure mechanisms of geocell walls and junctions. *Geotextiles and Geomembranes*, **2019**, 47, 104-120	5.2	9
42	A sulphonated oil for stabilisation of expansive soils. *International Journal of Pavement Engineering*, **2019**, 20, 1285-1298	2.6	37
41	Swell–compression characteristics of a fiber–reinforced expansive soil. *Geotextiles and Geomembranes*, **2018**, 46, 183-189	5.2	62
40	Seismic site classification based on constrained modeling of measured HVSR curve in regolith sites. *Soil Dynamics and Earthquake Engineering*, **2018**, 110, 244-261	3.5	15
39	Three-dimensional modeling of geocell-reinforced straight and curved ballast embankments. *Computers and Geotechnics*, **2018**, 102, 53-65	4.4	22
38	Passive noise datasets at regolith sites. *Data in Brief*, **2018**, 20, 735-747	1.2	5
37	Estimating bedrock depth in the case of regolith sites using ambient noise analysis. *Engineering Geology*, **2018**, 243, 145-159	6	16
36	Application of artificial neural networks for predicting the impact of rolling dynamic compaction using dynamic cone penetrometer test results. *Journal of Rock Mechanics and Geotechnical Engineering*, **2017**, 9, 340-349	5.3	27

35	Load-settlement behavior modeling of single piles using artificial neural networks and CPT data. *Computers and Geotechnics*, **2017**, 89, 9-21	4.4	51
34	Predicting the effectiveness of rolling dynamic compaction using genetic programming. *Proceedings of the Institution of Civil Engineers: Ground Improvement*, **2017**, 170, 193-207	1	4
33	The Influence of Site Investigation Scope on Pile Design in Multi-Layered, 2D Variable Ground **2017**,		2
32	Influence of river level fluctuations and climate on riverbank stability. *Computers and Geotechnics*, **2015**, 63, 83-98	4.4	22
31	A Field-Based Study of the Effectiveness of Rolling Dynamic Compaction **2015**, 429-452		
30	Assessing the influence of root reinforcement on slope stability by finite elements. *International Journal of Geo-Engineering*, **2015**, 6, 1	2.1	18
29	Prediction of ultimate axial load-carrying capacity of piles using a support vector machine based on CPT data. *Computers and Geotechnics*, **2014**, 55, 91-102	4.4	52
28	Assessing Soil Correlation Distances and Fractal Behavior **2013**,		4
27	Prediction of Pile Settlement Using Artificial Neural Networks Based on Cone Penetration Test Data **2010**,		2
26	Toppling mechanisms of rock slopes considering stabilization from the underlying rock mass. *International Journal of Rock Mechanics and Minings Sciences*, **2010**, 47, 348-354	6	14
25	Intelligent Computing for Predicting Axial Capacity of Drilled Shafts **2009**,		8
24	ANN-based model for predicting the bearing capacity of strip footing on multi-layered cohesive soil. *Computers and Geotechnics*, **2009**, 36, 503-516	4.4	90
23	Prediction of pile settlement using artificial neural networks based on standard penetration test data. *Computers and Geotechnics*, **2009**, 36, 1125-1133	4.4	78
22	A transfer coefficient method for rock slope toppling. *Canadian Geotechnical Journal*, **2009**, 46, 1-9	3.2	34
21	Recent Advances and Future Challenges for Artificial Neural Systems in Geotechnical Engineering Applications. *Advances in Artificial Neural Systems*, **2009**, 2009, 1-9		60
20	Improved analytical solution for toppling stability analysis of rock slopes. *International Journal of Rock Mechanics and Minings Sciences*, **2008**, 45, 1361-1372	6	34
19	Measuring the Risk of Geotechnical Site Investigations **2007**, 1		10
18	Effect of sample location on the reliability based design of pad foundations. *Georisk*, **2007**, 1, 155-166	1.9	18

17	Pullout capacity of small ground anchors by direct cone penetration test methods and neural networks. *Canadian Geotechnical Journal*, **2006**, 43, 626-637	3.2	32
16	Discussion: Towards reliable and effective site investigations. *Geotechnique*, **2005**, 55, 625-626	3.4	1
15	Neural network prediction of pullout capacity of marquee ground anchors. *Computers and Geotechnics*, **2005**, 32, 153-163	4.4	49
14	Towards reliable and effective site investigations. *Geotechnique*, **2005**, 55, 109-121	3.4	55
13	Neural network based stochastic design charts for settlement prediction. *Canadian Geotechnical Journal*, **2005**, 42, 110-120	3.2	20
12	Towards reliable and effective site investigations. *Geotechnique*, **2005**, 55, 109-121	3.4	11
11	Data Division for Developing Neural Networks Applied to Geotechnical Engineering. *Journal of Computing in Civil Engineering*, **2004**, 18, 105-114	5	203
10	Settlement prediction of shallow foundations on granular soils using B-spline neurofuzzy models. *Computers and Geotechnics*, **2003**, 30, 637-647	4.4	37
9	Closure to Predicting Settlement of Shallow Foundations Using Neural Networks by Mohamed A. Shahin, Holger R. Maier, and Mark B. Jaksa. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2003**, 129, 1175-1177	3.4	4
8	Predicting Settlement of Shallow Foundations using Neural Networks. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2002**, 128, 785-793	3.4	184
7	An Improved Statistically Based Technique for Evaluating the CPT Friction Ratio. *Geotechnical Testing Journal*, **2002**, 25, 61	1.3	2
6	Random Field Modeling of CPT Data. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2000**, 126, 1212-1216	3.4	13
5	Closure to Inaccuracies Associated with Estimating Random Measurement Errors by Mark B. Jaksa, Peter I. Brooker, and William S. Kaggwa. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **1999**, 125, 81-81	3.4	1
4	Inaccuracies Associated with Estimating Random Measurement Errors. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **1999**, 125, 79-80	3.4	16
3	Inaccuracies Associated with Estimating Random Measurement Errors. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **1997**, 123, 393-401	3.4	70
2	Modelling the Spatial Variability of the Undrained Shear Strength of Clay Soils Using Geostatistics. *Quantitative Geology and Geostatistics*, **1997**, 1284-1295		8
1	Experimental Analysis of Rolling Dynamic Compaction Using Transparent Soils and Particle Image Velocimetry. *Canadian Geotechnical Journal*,	3.2	2