Kok Kwang Phoon

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85 9,215 272 49 h-index g-index citations papers 6.89 10,882 296 3.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
272	Characterization of geotechnical variability. <i>Canadian Geotechnical Journal</i> , 1999 , 36, 612-624	3.2	1193
271	Evaluation of geotechnical property variability. Canadian Geotechnical Journal, 1999, 36, 625-639	3.2	437
270	Convergence study of the truncated KarhunenLoeve expansion for simulation of stochastic processes. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 52, 1029-1043	2.4	249
269	Efficient System Reliability Analysis of Slope Stability in Spatially Variable Soils Using Monte Carlo Simulation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04014096	3.4	190
268	Simulation of second-order processes using Karhunenloeve expansion. <i>Computers and Structures</i> , 2002 , 80, 1049-1060	4.5	158
267	Effect of spatially variable shear strength parameters with linearly increasing mean trend on reliability of infinite slopes. <i>Structural Safety</i> , 2014 , 49, 45-55	4.9	156
266	Implementation of KarhunenLoeve expansion for simulation using a wavelet-Galerkin scheme. <i>Probabilistic Engineering Mechanics</i> , 2002 , 17, 293-303	2.6	150
265	Simulation of strongly non-Gaussian processes using KarhunenLoeve expansion. <i>Probabilistic Engineering Mechanics</i> , 2005 , 20, 188-198	2.6	144
264	Identification of Statistically Homogeneous Soil Layers Using Modified Bartlett Statistics. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2003 , 129, 649-659	3.4	140
263	Response surface methods for slope reliability analysis: Review and comparison. <i>Engineering Geology</i> , 2016 , 203, 3-14	6	135
262	Random field characterisation of stress-nomalised cone penetration testing parameters. <i>Geotechnique</i> , 2005 , 55, 3-20	3.4	133
261	Impact of copula selection on geotechnical reliability under incomplete probability information. <i>Computers and Geotechnics</i> , 2013 , 49, 264-278	4.4	131
260	Copula-based approaches for evaluating slope reliability under incomplete probability information. <i>Structural Safety</i> , 2015 , 52, 90-99	4.9	124
259	Effects of soil spatial variability on rainfall-induced landslides. <i>Computers and Structures</i> , 2011 , 89, 893-9	9 q 05	112
258	Efficient Evaluation of Reliability for Slopes with Circular Slip Surfaces Using Importance Sampling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009 , 135, 768-777	3.4	107
257	Validation of a New 2D Failure Mechanism for the Stability Analysis of a Pressurized Tunnel Face in a Spatially Varying Sand. <i>Journal of Engineering Mechanics - ASCE</i> , 2011 , 137, 8-21	2.4	97
256	Development of a Reliability-Based Design Framework for Transmission Line Structure Foundations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2003 , 129, 798-806	3.4	97

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255	Bivariate simulation using copula and its application to probabilistic pile settlement analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 597-617	4	89	
254	Probabilistic Analysis of Soil-Water Characteristic Curves. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010 , 136, 445-455	3.4	89	
253	Characterization of Model Uncertainty in the Static Pile Design Formula. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 70-85	3.4	89	
252	Reliability analysis with scarce information: Comparing alternative approaches in a geotechnical engineering context. <i>Structural Safety</i> , 2013 , 41, 1-10	4.9	87	
251	Multiple Resistance Factor Design for Shallow Transmission Line Structure Foundations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2003 , 129, 807-818	3.4	87	
250	Impact of copulas for modeling bivariate distributions on system reliability. <i>Structural Safety</i> , 2013 , 44, 80-90	4.9	85	
249	Singapore Rainfall Behavior: Chaotic?. Journal of Hydrologic Engineering - ASCE, 1999, 4, 38-48	1.8	82	
248	Application of the Kriging-Based Response Surface Method to the System Reliability of Soil Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013 , 139, 651-655	3.4	81	
247	Improved AHP Method and Its Application in Risk Identification. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 312-320	4.2	80	
246	Three-dimensional slope reliability and risk assessment using auxiliary random finite element method. <i>Computers and Geotechnics</i> , 2016 , 79, 146-158	4.4	75	
245	Modeling parameters of structured clays as a multivariate normal distribution. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 522-545	3.2	75	
244	Reducing shear strength uncertainties in clays by multivariate correlations. <i>Canadian Geotechnical Journal</i> , 2010 , 47, 16-33	3.2	72	
243	Direct simulation of random field samples from sparsely measured geotechnical data with consideration of uncertainty in interpretation. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 862-880	3.2	70	
242	Bivariate distribution of shear strength parameters using copulas and its impact on geotechnical system reliability. <i>Computers and Geotechnics</i> , 2015 , 68, 184-195	4.4	69	
241	Correlations among some clay parameters The multivariate distribution. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 686-704	3.2	68	
240	Low Strain Integrity Testing of Piles: Three-Dimensional Effects. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2003 , 129, 1057-1062	3.4	68	
239	Role of reliability calculations in geotechnical design. <i>Georisk</i> , 2017 , 11, 4-21	1.9	67	
238	Evaluating slope stability uncertainty using coupled Markov chain. <i>Computers and Geotechnics</i> , 2016 , 73, 72-82	4.4	67	

237	Transformations and correlations among some clay parameters Ithe global database. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 663-685	3.2	67
236	A systematic approach to noise reduction in chaotic hydrological time series. <i>Journal of Hydrology</i> , 1999 , 219, 103-135	6	63
235	Efficient and consistent reliability analysis of soil slope stability using both limit equilibrium analysis and finite element analysis. <i>Applied Mathematical Modelling</i> , 2016 , 40, 5216-5229	4.5	62
234	Simulation of non-stationary non-Gaussian random fields from sparse measurements using Bayesian compressive sampling and Karhunen-Lowe expansion. <i>Structural Safety</i> , 2019 , 79, 66-79	4.9	57
233	Correlations for undrained shear strength of Finnish soft clays. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 1628-1645	3.2	57
232	Strength of High Water-Content Marine Clay Stabilized by Low Amount of Cement. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 2170-2181	3.4	57
231	Statistical characterization of random field parameters using frequentist and Bayesian approaches. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 285-298	3.2	55
230	Characterizing Uncertain Site-Specific Trend Function by Sparse Bayesian Learning. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017028	2.4	55
229	Reliability-based design and its complementary role to Eurocode 7 design approach. <i>Computers and Geotechnics</i> , 2015 , 65, 30-44	4.4	55
228	Effect of element sizes in random field finite element simulations of soil shear strength. <i>Computers and Structures</i> , 2013 , 126, 120-134	4.5	55
227	Mobilized shear strength of spatially variable soils under simple stress states. <i>Structural Safety</i> , 2013 , 41, 20-28	4.9	55
226	Simulation of geologic uncertainty using coupled Markov chain. <i>Engineering Geology</i> , 2016 , 207, 129-14	10 6	54
225	Constructing Site-Specific Multivariate Probability Distribution Model Using Bayesian Machine Learning. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04018126	2.4	53
224	An efficient diagonal preconditioner for finite element solution of Biot's consolidation equations. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 55, 377-400	2.4	50
223	Multivariate distribution for undrained shear strengths under various test procedures. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 907-923	3.2	49
222	System reliability analysis of slope stability using generalized Subset Simulation. <i>Applied Mathematical Modelling</i> , 2017 , 46, 650-664	4.5	48
221	Simulation of non-Gaussian processes using fractile correlation. <i>Probabilistic Engineering Mechanics</i> , 2004 , 19, 287-292	2.6	47
220	Modeling piezocone cone penetration (CPTU) parameters of clays as a multivariate normal distribution. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 77-91	3.2	46

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219	Characterization of Model Uncertainty for Cantilever Deflections in Undrained Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04014088	3.4	45	
218	Reliability evaluation of slope considering geological uncertainty and inherent variability of soil parameters. <i>Computers and Geotechnics</i> , 2017 , 92, 121-131	4.4	45	
217	Axisymmetric Lower-Bound Limit Analysis Using Finite Elements and Second-Order Cone Programming. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 268-278	2.4	44	
216	Simulation of Random Fields with Trend from Sparse Measurements without Detrending. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04018130	2.4	44	
215	Reliability analysis of strip footing considering spatially variable undrained shear strength that linearly increases with depth. <i>Soils and Foundations</i> , 2015 , 55, 866-880	2.9	43	
214	Effect of spatial variability on short- and long-term behaviour of axially-loaded cement-admixed marine clay column. <i>Computers and Geotechnics</i> , 2018 , 94, 150-168	4.4	41	
213	Probability distribution for mobilised shear strengths of spatially variable soils under uniform stress states. <i>Georisk</i> , 2013 , 7, 209-224	1.9	41	
212	Bayesian identification of random field model using indirect test data. <i>Engineering Geology</i> , 2016 , 210, 197-211	6	40	
211	Characterisation of geotechnical model uncertainty. <i>Georisk</i> , 2019 , 13, 101-130	1.9	39	
210	Block preconditioners for symmetric indefinite linear systems. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 60, 1361-1381	2.4	39	
209	Scale of Fluctuation for Spatially Varying Soils: Estimation Methods and Values. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020 , 6, 03120002	1.7	39	
208	Bootstrap method for characterizing the effect of uncertainty in shear strength parameters on slope reliability. <i>Reliability Engineering and System Safety</i> , 2015 , 140, 99-106	6.3	38	
207	Bayesian identification of soil stratigraphy based on soil behaviour type index. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 570-586	3.2	38	
206	Lower-Bound Limit Analysis of Seismic Passive Earth Pressure on Rigid Walls. <i>International Journal of Geomechanics</i> , 2014 , 14, 04014022	3.1	37	
205	Effects of the Source on Wave Propagation in Pile Integrity Testing. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010 , 136, 1200-1208	3.4	37	
204	A modified SSOR preconditioner for sparse symmetric indefinite linear systems of equations. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 65, 785-807	2.4	37	
203	Comparison between Karhunen Lowe expansion and translation-based simulation of non-Gaussian processes. <i>Computers and Structures</i> , 2007 , 85, 264-276	4.5	36	
202	Reliability-based design for transmission line structure foundations. <i>Computers and Geotechnics</i> , 2000 , 26, 169-185	4.4	36	

201	Long-Term Effect of Curing Temperature on the Strength Behavior of Cement-Stabilized Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014 , 140, 04014045	3.4	35
200	Modified MetropolisHastings algorithm with reduced chain correlation for efficient subset simulation. <i>Probabilistic Engineering Mechanics</i> , 2011 , 26, 331-341	2.6	35
199	Bayesian model comparison and characterization of bivariate distribution for shear strength parameters of soil. <i>Computers and Geotechnics</i> , 2018 , 95, 110-118	4.4	34
198	Performance of translation approach for modeling correlated non-normal variables. <i>Structural Safety</i> , 2012 , 39, 52-61	4.9	34
197	Uncertainty analysis of correlated non-normal geotechnical parameters using Gaussian copula. <i>Science China Technological Sciences</i> , 2012 , 55, 3081-3089	3.5	34
196	Practical Inverse Approach for Forecasting Nonlinear Hydrological Time Series. <i>Journal of Hydrologic Engineering - ASCE</i> , 2002 , 7, 116-128	1.8	34
195	Comparison between Karhunenloeve and wavelet expansions for simulation of Gaussian processes. <i>Computers and Structures</i> , 2004 , 82, 985-991	4.5	33
194	Characterisation of model uncertainties for laterally loaded rigid drilled shafts. <i>Geotechnique</i> , 2005 , 55, 45-54	3.4	33
193	The story of statistics in geotechnical engineering. <i>Georisk</i> , 2020 , 14, 3-25	1.9	33
192	R-LRFD: Load and resistance factor design considering robustness. <i>Computers and Geotechnics</i> , 2016 , 74, 74-87	4.4	32
191	Updating Uncertainties in Friction Angles of Clean Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012 , 138, 217-229	3.4	32
190	A quantile-based approach for calibrating reliability-based partial factors. <i>Structural Safety</i> , 2011 , 33, 275-285	4.9	32
189	Random field characterisation of stress-normalised cone penetration testing parameters. <i>Geotechnique</i> , 2005 , 55, 3-20	3.4	32
188	Impact of Statistical Uncertainty on Geotechnical Reliability Estimation. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 04016027	2.4	31
187	Mean and Variance of Mobilized Shear Strength for Spatially Variable Soils under Uniform Stress States. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 487-501	2.4	31
186	Interpolating spatially varying soil property values from sparse data for facilitating characteristic value selection. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 171-181	3.2	30
185	Worst case scale of fluctuation in basal heave analysis involving spatially variable clays. <i>Structural Safety</i> , 2017 , 68, 28-42	4.9	29
184	Model uncertainty of cylindrical shear method for calculating the uplift capacity of helical anchors in clay. <i>Engineering Geology</i> , 2016 , 207, 14-23	6	28

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183	Model Uncertainty for Predicting the Bearing Capacity of Sand Overlying Clay. <i>International Journal of Geomechanics</i> , 2017 , 17, 04017015	3.1	27	
182	Characterization of uncertainty in probabilistic model using bootstrap method and its application to reliability of piles. <i>Applied Mathematical Modelling</i> , 2015 , 39, 5310-5326	4.5	27	
181	On characterizing spatially variable soil shear strength using spatial average. <i>Probabilistic Engineering Mechanics</i> , 2016 , 45, 31-43	2.6	27	
180	Extended Strength Development Model of Cement-Treated Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 06015014	3.4	27	
179	Determination of site-specific soil-water characteristic curve from a limited number of test data DA Bayesian perspective. <i>Geoscience Frontiers</i> , 2018 , 9, 1665-1677	6	26	
178	Linking Site Investigation Efforts to Final Design Savings with Simplified Reliability-Based Design Methods. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04013032	3.4	26	
177	Fully Probabilistic Framework for Evaluating Excavation-Induced Damage Potential of Adjacent Buildings. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 130-139	3.4	26	
176	A modified Jacobi preconditioner for solving ill-conditioned Biot's consolidation equations using symmetric quasi-minimal residual method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2001 , 25, 1001-1025	4	26	
175	Challenges in data-driven site characterization. <i>Georisk</i> ,1-13	1.9	26	
174	Impact of Autocorrelation Function Model on the Probability of Failure. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04018123	2.4	26	
173	Identification of sample path smoothness in soil spatial variability. Structural Safety, 2019 , 81, 101870	4.9	25	
172	Numerical simulation of Richards equation in partially saturated porous media: under-relaxation and mass balance. <i>Geotechnical and Geological Engineering</i> , 2007 , 25, 525-541	1.5	25	
171	Effect of footing width on NIand failure envelope of eccentrically and obliquely loaded strip footings on sand. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 694-707	3.2	24	
170	Constructing a Site-Specific Multivariate Probability Distribution Using Sparse, Incomplete, and Spatially Variable (MUSIC-X) Data. <i>Journal of Engineering Mechanics - ASCE</i> , 2020 , 146, 04020061	2.4	24	
169	A generalized surrogate response aided-subset simulation approach for efficient geotechnical reliability-based design. <i>Computers and Geotechnics</i> , 2016 , 74, 88-101	4.4	24	
168	Model Uncertainty of Eurocode 7 Approach for Bearing Capacity of Circular Footings on Dense Sand. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016069	3.1	24	
167	Establishment of generic transformations for geotechnical design parameters. <i>Structural Safety</i> , 2012 , 35, 52-62	4.9	23	
166	Impact of sample size on geotechnical probabilistic model identification. <i>Computers and Geotechnics</i> , 2017 , 87, 229-240	4.4	22	

165	Efficient reliability updating of slope stability by reweighting failure samples generated by Monte Carlo simulation. <i>Computers and Geotechnics</i> , 2015 , 69, 588-600	4.4	22
164	Statistics of Model Factors and Consideration in Reliability-Based Design of Axially Loaded Helical Piles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 04018050	3.4	22
163	Quantile value method versus design value method for calibration of reliability-based geotechnical codes. <i>Structural Safety</i> , 2013 , 44, 47-58	4.9	22
162	Observations on Limit Equilibrium B ased Slope Reliability Problems with Inclined Weak Seams. Journal of Engineering Mechanics - ASCE, 2010 , 136, 1220-1233	2.4	22
161	Effect of soil microstructure on the compressibility of natural Singapore marine clay. <i>Canadian Geotechnical Journal</i> , 2008 , 45, 161-176	3.2	22
160	Reliability Analysis of Pile Settlement. <i>Journal of Geotechcnical Engineering</i> , 1990 , 116, 1717-1734		22
159	Undrained strength for a 3D spatially variable clay column subjected to compression or shear. <i>Probabilistic Engineering Mechanics</i> , 2016 , 45, 127-139	2.6	22
158	Transformation models for effective friction angle and relative density calibrated based on generic database of coarse-grained soils. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 481-501	3.2	21
157	Characterization of Model Uncertainties for Augered Cast-In-Place (ACIP) Piles under Axial Compression 2006 , 82		21
156	Statistics of model factors in reliability-based design of axially loaded driven piles in sand. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1592-1610	3.2	20
155	Development of a Web-GIS Based Geotechnical Information System. <i>Journal of Computing in Civil Engineering</i> , 2005 , 19, 323-327	5	20
154	Novel approach to estimate vertical scale of fluctuation based on CPT data using convolutional neural networks. <i>Engineering Geology</i> , 2021 , 294, 106342	6	20
153	Identifiability of Geotechnical Site-Specific Trend Functions. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017 , 3, 04017021	1.7	19
152	Characterization of model uncertainty in predicting axial resistance of piles driven into clay. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1098-1118	3.2	19
151	Reliability Analysis of Partial Safety Factor Design Method for Cantilever Retaining Walls in Granular Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 616-622	3.4	17
150	Geostatistical analysis of cone penetration test (CPT) sounding using the modified Bartlett test. <i>Canadian Geotechnical Journal</i> , 2004 , 41, 356-365	3.2	17
149	Performance of Jacobi preconditioning in Krylov subspace solution of finite element equations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 341-372	4	17
148	Managing Risk in Geotechnical Engineering From Data to Digitalization 2019,		17

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147	Generic transformation models for some intact rock properties. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1702-1741	3.2	16	
146	Evaluation of model uncertainties in reliability-based design of steel H-piles in axial compression. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1513-1532	3.2	16	
145	Some theoretical and numerical observations on scattering of Rayleigh waves in media containing shallow rectangular cavities. <i>Journal of Applied Geophysics</i> , 2012 , 83, 107-119	1.7	16	
144	Numerical oscillation in seepage analysis of unsaturated soils. <i>Canadian Geotechnical Journal</i> , 2001 , 38, 639-651	3.2	16	
143	3D Probabilistic Site Characterization by Sparse Bayesian Learning. <i>Journal of Engineering Mechanics - ASCE</i> , 2020 , 146, 04020134	2.4	16	
142	Quantitative evaluation of geological uncertainty and its influence on tunnel structural performance using improved coupled Markov chain. <i>Acta Geotechnica</i> , 2021 , 16, 3709	4.9	16	
141	Correlations among some parameters of coarse-grained soils I the multivariate probability distribution model. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1203-1220	3.2	15	
140	The performance of commodity trading advisors: A mean-variance-ratio test approach. <i>North American Journal of Economics and Finance</i> , 2013 , 25, 188-201	2.5	15	
139	Some numerical experiences on convergence criteria for iterative finite element solvers. <i>Computers and Geotechnics</i> , 2009 , 36, 1272-1284	4.4	15	
138	Numerical Study of Finite Element Method Based Solutions for Propagation of Wetting Fronts in Unsaturated Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004 , 130, 254-263	3.4	15	
137	On characterizing spatially variable soil Young modulus using spatial average. <i>Structural Safety</i> , 2017 , 66, 106-117	4.9	14	
136	Chapter 5 Statistical characterization of model uncertainty 2016 , 127-158		14	
135	Reliability-Based Design of Foundations-A Modern View 2012 ,		14	
134	Analysis of cement-treated soil slab for deep excavation support (b) rational approach. <i>Geotechnique</i> , 2019 , 69, 888-905	3.4	14	
133	Prediction of Bearing Capacity of Ring Foundation on Dense Sand with Regard to Stress Level Effect. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018154	3.1	14	
132	Effective Young modulus of a spatially variable soil mass under a footing. <i>Structural Safety</i> , 2018 , 73, 99-113	4.9	13	
131	Robust estimation of correlation coefficients among soil parameters under the multivariate normal framework. <i>Structural Safety</i> , 2016 , 63, 21-32	4.9	13	
130	Chapter 3 Uncertainty representation of geotechnical design parameters 2016 , 49-88		13	

129	Chapter 4 Statistical characterization of multivariate geotechnical data 2016 , 89-126		13
128	Probabilistic Site Characterization. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2018 , 4, 02018002	1.7	13
127	Performance of reliability-based design code formats for foundations in layered soils. <i>Computers and Structures</i> , 2013 , 126, 100-106	4.5	13
126	Analysis of effects of active sources on observed phase velocity based on the thin layer method. Journal of Applied Geophysics, 2011 , 73, 49-58	1.7	13
125	Fast iterative solution of large undrained soil-structure interaction problems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003 , 27, 159-181	4	13
124	Multivariate probability distribution for some intact rock properties. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1080-1097	3.2	13
123	Analysis of tunnelling through spatially-variable improved surrounding IA simplified approach. <i>Tunnelling and Underground Space Technology</i> , 2019 , 93, 103102	5.7	12
122	Physical modelling of soil uncertainty. <i>International Journal of Physical Modelling in Geotechnics</i> , 2015 , 15, 19-34	1	12
121	Value of Geotechnical Site Investigation in Reliability-Based Design. <i>Advances in Structural Engineering</i> , 2012 , 15, 1935-1945	1.9	12
120	Impact of translation approach for modelling correlated non-normal variables on parallel system reliability. <i>Structure and Infrastructure Engineering</i> , 2013 , 9, 969-982	2.9	12
119	Comment on Monlinear analysis of river flow time sequences by Amilcare Porporato and Luca Ridolfi. <i>Water Resources Research</i> , 1999 , 35, 895-897	5.4	12
118	Statistical evaluation of model factors in reliability calibration of high-displacement helical piles under axial loading. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 246-262	3.2	12
117	Robustness of Constant Load and Resistance Factor Design Factors for Drilled Shafts in Multiple Strata. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1104-1114	3.4	11
116	Accelerated Testing of Cement Treated Singapore Marine Clay Cured under Elevated Temperature 2012 ,		11
115	Comment on D oes the river run wild? Assessing chaos in hydrological systemslby G.B. Pasternack. <i>Advances in Water Resources</i> , 2001 , 24, 575-578	4.7	11
114	Quasi-site-specific prediction for deformation modulus of rock mass. Canadian Geotechnical Journal, 1-7	163.2	11
113	Trend estimation and layer boundary detection in depth-dependent soil data using sparse Bayesian lasso. <i>Computers and Geotechnics</i> , 2020 , 128, 103845	4.4	11
112	Dealing with Nonlattice Data in Three-Dimensional Probabilistic Site Characterization. <i>Journal of Engineering Mechanics - ASCE</i> , 2021 , 147, 06021003	2.4	11

111	Probabilistic outlier detection for sparse multivariate geotechnical site investigation data using Bayesian learning. <i>Geoscience Frontiers</i> , 2021 , 12, 425-439	6	11
110	Measuring Similarity between Site-Specific Data and Records from Other Sites. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020 , 6, 04020011	1.7	10
109	Estimating Strength of Stabilized Dredged Fill Using Multivariate Normal Model. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1944-1953	3.4	10
108	Partitioned versus global Krylov subspace iterative methods for FE solution of 3-D Biot problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 2737-2750	5.7	10
107	Model Uncertainties in Foundation Design		10
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