

# Richard Bathurst

## List of Publications by Year in descending order

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145  
papers

6,818  
citations

47006

47  
h-index

71685

76  
g-index

148  
all docs

148  
docs citations

148  
times ranked

1914  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Bayesian approaches to statistical modelling of geotechnical data. <i>Georisk</i> , 2022, 16, 452-469.	3.5	14
2	Load-resistance duality and case-specific sensitivity in reliability-based design. <i>Acta Geotechnica</i> , 2022, 17, 3067-3085.	5.7	4
3	Seismic Bearing Capacity of Geosynthetic Reinforced Strip Footings Using Upper Bound Limit Analysis. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	12
4	Response to discussion by S. H. Mirmoradi and M. Ehrlich on “Geosynthetic reinforcement stiffness for analytical and numerical modelling of reinforced soil structures” by Richard J. Bathurst <sup>1</sup> and Fahimeh M. Naftchali <sup>2</sup> , <i>Geotextiles and Geomembranes</i> , 49 (2021) 921-940. <i>Geotextiles and Geomembranes</i> , 2022, , .	4.6	1
5	Modeling Soil-Facing Interface Interaction With Continuum Element Methodology. <i>Frontiers in Built Environment</i> , 2022, 8, .	2.3	3
6	Reliability-based design and analysis for internal limit states of steel grid-reinforced mechanically stabilized earth walls. <i>Canadian Geotechnical Journal</i> , 2021, 58, 695-710.	2.8	7
7	3D modelling of strip reinforced MSE walls. <i>Acta Geotechnica</i> , 2021, 16, 711-730.	5.7	15
8	A Bayesian approach to reliability of MSE walls. <i>Georisk</i> , 2021, 15, 1-11.	3.5	10
9	Geosynthetic reinforcement stiffness for analytical and numerical modelling of reinforced soil structures. <i>Geotextiles and Geomembranes</i> , 2021, 49, 921-940.	4.6	68
10	LRFD Calibration of Internal Limit States for MSE Walls Using Steel Strip Reinforcement. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	4
11	Reliability-Based Analysis of Internal Limit States for MSE Walls Using Steel-Strip Reinforcement. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	19
12	Deterministic and probabilistic assessment of margins of safety for internal stability of as-built PET strap reinforced soil walls. <i>Geotextiles and Geomembranes</i> , 2020, 48, 780-792.	4.6	20
13	Influence of corrosion on reliability-based design of steel grid MSE walls. <i>Structural Safety</i> , 2020, 84, 101914.	5.3	8
14	Developments in MSE Wall Research and Design. <i>Sustainable Civil Infrastructures</i> , 2020, , 22-50.	0.2	4
15	Reliability-based design of internal limit states for mechanically stabilized earth walls using geosynthetic reinforcement. <i>Canadian Geotechnical Journal</i> , 2019, 56, 774-788.	2.8	34
16	Geosynthetic reinforcement stiffness characterization for MSE wall design. <i>Geosynthetics International</i> , 2019, 26, 592-610.	2.9	65
17	LRFD Calibration of Internal Limit States for Geogrid MSE Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	29
18	Bayesian model checking, comparison and selection with emphasis on outlier detection for geotechnical reliability-based design. <i>Computers and Geotechnics</i> , 2019, 116, 103181.	4.7	13

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19	Performance-based analysis and design for internal stability of MSE walls. <i>Georisk</i> , 2019, 13, 214-225.	3.5	13
20	Calibration of PET strap pullout models using a statistical approach. <i>Geosynthetics International</i> , 2019, 26, 413-427.	2.9	13
21	A Simple and Rigorous Approach for Probabilistic Internal Stability Analysis and Design of Reinforced Soil Walls. , 2019, , .		1
22	Probabilistic Analysis of a MSE Wall Considering Spatial Variability of Soil Properties. , 2019, , .		2
23	Probabilistic Tensile Strength Analysis of Steel Strips in MSE Walls Considering Corrosion. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	12
24	Calibration of Resistance Factors for Load and Resistance Factor Design of Internal Limit States of Soil Nail Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	25
25	Statistical assessment of load model accuracy for steel grid-reinforced soil walls. <i>Acta Geotechnica</i> , 2019, 14, 57-70.	5.7	10
26	Reliability-Based Internal Limit State Analysis and Design of Soil Nails Using Different Load and Resistance Models. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	24
27	Numerical simulation and parametric analysis of multi-anchor walls using the finite element method. <i>Transportation Geotechnics</i> , 2018, 15, 57-69.	4.5	5
28	Influence of model type, bias and input parameter variability on reliability analysis for simple limit states with two load terms. <i>Computers and Geotechnics</i> , 2018, 97, 78-89.	4.7	3
29	Application of the Simplified Stiffness Method to Design of Reinforced Soil Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	50
30	Probabilistic Prediction of Reinforcement Loads for Steel MSE Walls Using a Response Surface Method. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	14
31	Sustainability assessment of earth-retaining wall structures. <i>Environmental Geotechnics</i> , 2018, 5, 187-203.	2.3	41
32	Influence of cross correlation between nominal load and resistance on reliability-based design for simple linear soil-structure limit states. <i>Canadian Geotechnical Journal</i> , 2018, 55, 279-295.	2.8	36
33	Probabilistic analysis of reinforced slopes using RFEM and considering spatial variability of frictional soil properties due to compaction. <i>Georisk</i> , 2018, 12, 87-108.	3.5	51
34	Calibration of Soil-Steel Grid Pullout Models Using a Statistical Approach. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	15
35	Deterministic and random FEM analysis of full-scale unreinforced and reinforced embankments. <i>Geosynthetics International</i> , 2018, 25, 164-179.	2.9	28
36	Evaluation of tensile load model accuracy for PET strap MSE walls. <i>Geosynthetics International</i> , 2018, 25, 656-671.	2.9	31

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37	Energy Grade Line Analysis of Tsunami run-up on the Sendai Plain after the 2011 Tohoku earthquake. Coastal Engineering, 2018, 140, 306-315.	4.0	3
38	Probabilistic Analysis of Layered Slopes with Linearly Increasing Cohesive Strength and 2D Spatial Variability of Soil Strength Parameters Using Non-Circular RLEM Approach. , 2018, .		3
39	Influence of model type, bias and input parameter variability on reliability analysis for simple limit states in soil-structure interaction problems. Georisk, 2017, 11, 42-54.	3.5	40
40	Statistical analysis of the effective stress method and modifications for prediction of ultimate bond strength of soil nails. Acta Geotechnica, 2017, 12, 171-182.	5.7	26
41	Modelling of geosynthetic-reinforced column-supported embankments using 2D full-width model and modified unit cell approach. Geotextiles and Geomembranes, 2017, 45, 103-120.	4.6	29
42	Numerical modelling of two full-scale reinforced soil wrapped-face walls. Geotextiles and Geomembranes, 2017, 45, 237-249.	4.6	59
43	Reliability bearing capacity analysis of footings on cohesive soil slopes using RFEM. Computers and Geotechnics, 2017, 89, 203-212.	4.7	29
44	Insights into geogrid-soil interaction using a transparent granular soil. Geotechnique Letters, 2017, 7, 179-183.	1.2	16
45	LRFD Calibration of Simple Soil-Structure Limit States Considering Method Bias and Design Parameter Variability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	44
46	<i>Corrigendum:</i> Reliability-based geotechnical design in 2014 Canadian Highway Bridge Design Code. Canadian Geotechnical Journal, 2017, 54, 1521-1521.	2.8	0
47	Probabilistic assessment of reinforced soil wall performance using response surface method. Geosynthetics International, 2017, 24, 524-542.	2.9	27
48	Influence of Selection of Soil and Interface Properties on Numerical Results of Two Soil-Geosynthetic Interaction Problems. International Journal of Geomechanics, 2017, 17, .	2.7	42
49	Probabilistic analysis of simple slopes with cohesive soil strength using RLEM and RFEM. Georisk, 2017, 11, 231-246.	3.5	49
50	Statistical Evaluation of the FHWA Simplified Method and Modifications for Predicting Soil Nail Loads. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	29
51	Environmental assessment of earth retaining wall structures. Environmental Geotechnics, 2017, 4, 415-431.	2.3	48
52	Deterministic and probabilistic failure analysis of simple geosynthetic reinforced soil slopes. Geosynthetics International, 2017, 24, 14-29.	2.9	39
53	Probabilistic stability analysis of simple reinforced slopes by finite element method. Computers and Geotechnics, 2016, 77, 45-55.	4.7	71
54	Geogrid pullout load-strain behaviour and modelling using a transparent granular soil. Geosynthetics International, 2016, 23, 271-286.	2.9	42

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55	Stability of steel reinforced soil walls after footing failure. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 25-34.	1.6	3
56	Physical and numerical modelling of a geogrid-reinforced incremental concrete panel retaining wall. Canadian Geotechnical Journal, 2016, 53, 1883-1901.	2.8	63
57	Deterministic and probabilistic prediction of facing deformations of geosynthetic-reinforced MSE walls using a response surface approach. Geotextiles and Geomembranes, 2016, 44, 813-823.	4.6	21
58	Closure to "Improved Simplified Method for Prediction of Loads in Reinforced Soil Walls" by Tony M. Allen and Richard J. Bathurst. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, 07016019.	3.0	3
59	Vertical Facing Panel-Joint Gap Analysis for Steel-Reinforced Soil Walls. International Journal of Geomechanics, 2016, 16, .	2.7	14
60	Modified unit cell approach for modelling geosynthetic-reinforced column-supported embankments. Geotextiles and Geomembranes, 2016, 44, 332-343.	4.6	37
61	Numerical Modeling of the SR-18 Geogrid Reinforced Modular Block Retaining Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	68
62	Influence of cross correlation between soil parameters on probability of failure of simple cohesive and $c < i > / i > - \phi$ slopes. Canadian Geotechnical Journal, 2016, 53, 839-853.	2.8	61
63	Reliability-based geotechnical design in 2014 Canadian Highway Bridge Design Code. Canadian Geotechnical Journal, 2016, 53, 236-251.	2.8	109
64	Numerical analysis of a mechanically stabilized earth wall reinforced with steel strips. Soils and Foundations, 2015, 55, 536-547.	3.1	54
65	Stability of multi-anchor soil walls after loss of toe support. Geotechnique, 2015, 65, 945-951.	4.0	5
66	Influence of transient flooding on steel strip reinforced soil walls. Soils and Foundations, 2015, 55, 881-894.	3.1	6
67	Influence of choice of FLAC and PLAXIS interface models on reinforced soil "structure interactions. Computers and Geotechnics, 2015, 65, 164-174.	4.7	69
68	Analysis of Soil-Steel Bar Mat Pullout Models Using a Statistical Approach. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	24
69	Improved Simplified Method for Prediction of Loads in Reinforced Soil Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	114
70	Reliability analysis of geogrid installation damage test data in Japan. Soils and Foundations, 2015, 55, 393-403.	3.1	22
71	Reliability-based analysis of combined installation damage and creep for the tensile rupture limit state of geogrid reinforcement in Japan. Soils and Foundations, 2015, 55, 437-446.	3.1	28
72	Performance of three geogrid-reinforced soil walls before and after foundation failure. Geosynthetics International, 2015, 22, 311-326.	2.9	39

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73	Numerical Analysis of an Instrumented Steel-Reinforced Soil Wall. International Journal of Geomechanics, 2015, 15, .	2.7	55
74	Nonlinear load-strain modeling of polypropylene geogrids during constant rate-of-strain loading. Polymer Engineering and Science, 2015, 55, 1617-1627.	3.1	26
75	Geogrid and Soil Displacement Observations During Pullout Using a Transparent Granular Soil. Geotechnical Testing Journal, 2015, 38, 20140145.	1.0	33
76	Past, Present, and Future of Transparent Soils. Geotechnical Testing Journal, 2015, 38, 20150079.	1.0	86
77	Numerical study of the influence of foundation compressibility and reinforcement stiffness on the behavior of reinforced soil walls. International Journal of Geotechnical Engineering, 2014, 8, 247-259.	2.0	41
78	Simplified probabilistic slope stability design charts for cohesive and cohesive-frictional soils. Canadian Geotechnical Journal, 2014, 51, 1033-1045.	2.8	77
79	Performance of an 11 m high block-faced geogrid wall designed using the K-stiffness method. Canadian Geotechnical Journal, 2014, 51, 16-29.	2.8	74
80	Reliability analysis of geogrid creep data in Japan. Soils and Foundations, 2014, 54, 608-620.	3.1	21
81	Design and Performance of 6.3-m-High, Block-Faced Geogrid Wall Designed Using K-Stiffness Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	68
82	A new approach to evaluate soil-geosynthetic interaction using a novel pullout test apparatus and transparent granular soil. Geotextiles and Geomembranes, 2014, 42, 246-255.	4.6	101
83	Earthquake Load Attenuation Using EPS Geofoam Buffers in Rigid Wall Applications. Indian Geotechnical Journal, 2013, 43, 283-291.	1.4	17
84	Behaviour of a geogrid reinforced wall built with recycled construction and demolition waste backfill on a collapsible foundation. Geotextiles and Geomembranes, 2013, 39, 9-19.	4.6	84
85	Vertical-Facing Loads in Steel-Reinforced Soil Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1419-1432.	3.0	37
86	Comparison of Working Stress and Limit Equilibrium Behavior of Reinforced Soil Walls. , 2013, , .		18
87	LRFD Calibration of Metallic Reinforced Soil Walls. , 2013, , .		3
88	Special Section on Geomechanics and Geosynthetics. International Journal of Geomechanics, 2012, 12, 339-339.	2.7	0
89	LRFD Calibration of the Ultimate Pullout Limit State for Geogrid Reinforced Soil Retaining Walls. International Journal of Geomechanics, 2012, 12, 399-413.	2.7	27
90	Measured and predicted loads in steel strip reinforced soil walls in Japan. Soils and Foundations, 2012, 52, 1-17.	3.1	40

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91	2011 Best Paper Award. Georisk, 2012, 6, 72-72.	3.5	0
92	LRFD Calibration for Steel Strip Reinforced Soil Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 922-933.	3.0	32
93	Reliability analysis of soil-geogrid pullout models in Japan. Soils and Foundations, 2012, 52, 620-633.	3.1	30
94	Analysis and calibration of default steel strip pullout models used in Japan. Soils and Foundations, 2012, 52, 481-497.	3.1	41
95	An analytical expression for the dynamic active thrust from c-ŕ soil backfill on retaining walls with wall friction and adhesion. Geomechanics and Engineering, 2012, 4, 209-218.	0.9	20
96	EPS Seismic Buffers for Earthquake Load Attenuation against Rigid Retaining Walls. , 2011, , .		1
97	Research on shock mitigation on circular tunnels using expanded polystyrene. , 2011, , .		0
98	Evaluation of Two Anchor Plate Capacity Models for Maw Systems. Soils and Foundations, 2011, 51, 885-895.	3.1	12
99	Limit States Design Calibration for Internal Stability of Multi-Anchor Walls. Soils and Foundations, 2011, 51, 1051-1064.	3.1	14
100	Analysis of installation damage tests for LRFD calibration of reinforced soil structures. Geotextiles and Geomembranes, 2011, 29, 323-334.	4.6	42
101	Load and resistance factor design (LRFD) calibration for steel grid reinforced soil walls. Georisk, 2011, 5, 218-228.	3.5	61
102	Closure to "Predicted Loads in Steel Reinforced Soil Walls Using the AASHTO Simplified Method" by Richard J. Bathurst, Axel Nernheim, and Tony M. Allen. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1307-1310.	3.0	5
103	Comparison of numerical and analytical solutions for reinforced soil wall shaking table tests. Geomechanics and Engineering, 2011, 3, 291-321.	0.9	55
104	A Transparent Sand for Geotechnical Laboratory Modeling. Geotechnical Testing Journal, 2011, 34, 590-601.	1.0	48
105	Facing Displacements in Geosynthetic Reinforced Soil Walls. , 2010, , .		28
106	Influence of toe restraint on reinforced soil segmental walls. Canadian Geotechnical Journal, 2010, 47, 885-904.	2.8	101
107	Influence of Transient Flooding on Multi-Anchor Walls. Soils and Foundations, 2010, 50, 371-382.	3.1	10
108	Influence of reinforcement stiffness and compaction on the performance of four geosynthetic-reinforced soil walls. Geosynthetics International, 2009, 16, 43-59.	2.9	108

#	ARTICLE	IF	CITATIONS
109	Influence of constitutive model on numerical simulation of EPS seismic buffer shaking table tests. Geotextiles and Geomembranes, 2009, 27, 308-312.	4.6	31
110	Numerical parametric study of expanded polystyrene (EPS) geofoam seismic buffers. Canadian Geotechnical Journal, 2009, 46, 318-338.	2.8	62
111	Numerical Study of Reinforced Soil Segmental Walls Using Three Different Constitutive Soil Models. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1486-1498.	3.0	150
112	Predicted Loads in Steel Reinforced Soil Walls Using the AASHTO Simplified Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 177-184.	3.0	30
113	Experimental investigation of infiltration ponding in one-dimensional sand-geotextile columns. Geosynthetics International, 2009, 16, 158-172.	2.9	26
114	Numerical modeling of EPS seismic buffer shaking table tests. Geotextiles and Geomembranes, 2008, 26, 371-383.	4.6	60
115	Calibration concepts for load and resistance factor design (LRFD) of reinforced soil walls. Canadian Geotechnical Journal, 2008, 45, 1377-1392.	2.8	97
116	Predicted and measured loads using the coherent gravity method. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2008, 161, 113-120.	1.0	27
117	Refinement of K-stiffness Method for geosynthetic-reinforced soil walls. Geosynthetics International, 2008, 15, 269-295.	2.9	138
118	A Numerical Model for EPS Geofoam Seismic Buffers. , 2008, , 300-304.		0
119	Large-scale interface shear testing of sandbag dyke materials. Geosynthetics International, 2007, 14, 119-126.	2.9	27
120	Reply to the discussions on "The influence of facing stiffness on the performance of two geosynthetic reinforced soil retaining walls" Appears in Canadian Geotechnical Journal, 1479-1482 and 1483.. Canadian Geotechnical Journal, 2007, 44, 1484-1490.	2.8	11
121	Development of the <i>K</i> -stiffness method for geosynthetic reinforced soil walls constructed with <i>s</i> soils. Canadian Geotechnical Journal, 2007, 44, 1391-1416.	2.8	60
122	Experimental investigation of EPS geofoam seismic buffers using shaking table tests. Geosynthetics International, 2007, 14, 165-177.	2.9	89
123	Evaluation of K-Stiffness Method for Vertical Geosynthetic Reinforced Granular Soil Walls in Japan. Soils and Foundations, 2007, 47, 319-335.	3.1	36
124	A simple displacement model for response analysis of EPS geofoam seismic buffers. Soil Dynamics and Earthquake Engineering, 2007, 27, 344-353.	3.8	31
125	Shaking table testing of geofoam seismic buffers. Soil Dynamics and Earthquake Engineering, 2007, 27, 324-332.	3.8	124
126	Influence of reinforcement parameters on the seismic response of reduced-scale reinforced soil retaining walls. Geotextiles and Geomembranes, 2007, 25, 33-49.	4.6	195



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127	Numerical Model for Reinforced Soil Segmental Walls under Surcharge Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006, 132, 673-684.	3.0	226
128	The influence of facing stiffness on the performance of two geosynthetic reinforced soil retaining walls. Canadian Geotechnical Journal, 2006, 43, 1225-1237.	2.8	112
129	Development and verification of a numerical model for the analysis of geosynthetic-reinforced soil segmental walls under working stress conditions. Canadian Geotechnical Journal, 2005, 42, 1066-1085.	2.8	254
130	Facing contribution to seismic response of reduced-scale reinforced soil walls. Geosynthetics International, 2005, 12, 215-238.	2.9	112
131	Lateral and axial deformation of PP, HDPE and PET geogrids under tensile load. Geotextiles and Geomembranes, 2004, 22, 205-222.	4.6	75
132	New Method for Prediction of Loads in Steel Reinforced Soil Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2004, 130, 1109-1120.	3.0	70
133	Experimental design, instrumentation and interpretation of reinforced soil wall response using a shaking table. International Journal of Physical Modelling in Geotechnics, 2004, 4, 13-32.	0.6	72
134	Experimental Design, Instrumentation and Interpretation of Reinforced Soil Wall Response Using a Shaking Table. International Journal of Physical Modelling in Geotechnics, 2004, 4, 13-32.	0.6	37
135	RELIABILITY ANALYSIS OF REINFORCED SOIL RETAINING WALLS BASED ON NORTH AMERICAN DESIGN CODES. Geosynthetics Engineering Journal, 2004, 19, 7-14.	0.1	0
136	A new working stress method for prediction of reinforcement loads in geosynthetic walls. Canadian Geotechnical Journal, 2003, 40, 976-994.	2.8	129
137	Performance of instrumented large-scale unreinforced and reinforced embankments loaded by a strip footing to failure. Canadian Geotechnical Journal, 2003, 40, 1067-1083.	2.8	69
138	TIME-DEPENDENT DEFORMATION AND STRENGTH CHARACTERISTICS OF GEOGRIDS DUE TO VISCOUS PROPERTIES. Geosynthetics Engineering Journal, 2002, 17, 137-144.	0.1	2
139	Static Response of Reinforced Soil Retaining Walls with Nonuniform Reinforcement. International Journal of Geomechanics, 2001, 1, 477-506.	2.7	63
140	Case study of a hybrid gabion basket geosynthetic reinforced soil wall. Proceedings of the Institution of Civil Engineers: Ground Improvement, 1997, 1, 9-17.	1.0	6
141	Seismic response analysis of geosynthetic reinforced soil segmental retaining walls by finite element method. Computers and Geotechnics, 1995, 17, 523-546.	4.7	89
142	Behaviour of geosynthetic reinforced soil retaining walls using the finite element method. Computers and Geotechnics, 1995, 17, 279-299.	4.7	136
143	Micromechanical features of granular assemblies with planar elliptical particles. Geotechnique, 1992, 42, 79-95.	4.0	273
144	Microstructure of isotropic materials with negative Poisson's ratio. Nature, 1991, 354, 470-472.	27.8	155

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145	Micromechanical Aspects of Isotropic Granular Assemblies With Linear Contact Interactions. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 17-23.	2.2	284