Nadarajah Ravichandran

List of Publications by Year
in descending order

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		759233	752698
49	439	12	20
papers	citations	h-index	g-index

49	49	49	330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reliability-based optimization in climate-adaptive design of embedded footing. Georisk, 2023, 17, 287-309.	3.5	0
2	Robust Optimization for Stability of I-Walls and Levee System Resting on Sandy Foundation. KSCE Journal of Civil Engineering, 2022, 26, 57-68.	1.9	1
3	Stability and Deformation Responses of Earth Slopes Subjected to Multiple Natural and Manmade Hazards. International Journal of Geomechanics, 2022, 22, .	2.7	3
4	Development of Innovative Foundation Configuration for Tall Wind Turbines Inspired by Tree Root System. International Journal of Geomechanics, 2022, 22, .	2.7	1
5	Ground Motion Characteristics Based on Type of Input Motion and Spectral Matching Technique for South Carolina. , 2022, , .		4
6	Prospective of Biomimicking Tree Root Anchorage Mechanism to Develop an Innovative Foundation System. , 2022, , .		0
7	Development of Site Amplification Factors for Reference Outcrop Site Conditions in the State of South Carolina. , 2022, , .		4
8	Modeling Dynamic Properties of Rock in South Carolina for Seismic Ground Response Analysis. , 2022, , .		4
9	Modeling Dynamic Properties of South Carolina Coastal Plain Sediments for Ground Response Analysis. , 2022, , .		4
10	Post hurricane Harvey dataset: Portable free fall penetrometer and chirp sonar measurements of Texas rivers. Data in Brief, 2022, 42, 108203.	1.0	2
11	Performance of retaining wall backfilled with tire aggregate under static and dynamic loading conditions: conventional designs and finite element simulations. International Journal of Geotechnical Engineering, 2021, 15, 574-586.	2.0	3
12	Robust design optimization of retaining wall backfilled with shredded tire in the face of earthquake hazards. Bulletin of Engineering Geology and the Environment, 2021, 80, 1351-1363.	3.5	12
13	Assessment of historical foundation response of Fort Sumter, South Carolina, using finite element modelling. International Journal of Geotechnical Engineering, 2021, 15, 906-913.	2.0	0
14	Climateâ€adaptive design approach for embedded footing under extreme climate event. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 1437-1457.	3.3	1
15	Robust Climate-Adaptive Shallow Foundation Design Optimization Subjected to Hydrological Loads. , 2021, , .		0
16	Combined portable free fall penetrometer and chirp sonar measurements of three texas river sections post hurricane harvey. Engineering Geology, 2021, 294, 106324.	6.3	6
17	Impacts of Extreme Hydrological Events on the Behavior of Buried Stormwater Pipe. Journal of Pipeline Systems Engineering and Practice, 2021, 12, 04021059.	1.6	1
18	Numerical Analysis of Settlement Response of Shallow Footing Subjected to Heavy Rainfall and Flood Events. International Journal of Geosciences, 2021, 12, 138-158.	0.6	4

#	Article	IF	Citations
19	Impact of Site-Specific Extreme Hydrological Cycle on Footing Performance. , 2021, , .		1
20	Coupled Geotechnical-Hydrological Analysis of Earth Slopes Subjected to Different Hydrological Loadings Using Finite Element Model. , 2021, , .		0
21	Fully Coupled Flow Deformation Analysis of Buried Concrete Pipe Using Finite Element Software PLAXIS 2D. , 2021, , .		1
22	Performance- and cost-based robust design optimization procedure for typical foundations for wind turbine. International Journal of Geotechnical Engineering, 2020, 14, 395-408.	2.0	4
23	Coupled geotechnical-climatic design procedure for drilled shaft subjected to axial load. Engineering Geology, 2020, 264, 105317.	6.3	4
24	An Effort to Develop a Novel Foundation through Biomimicry Using 3D Finite Element Modeling. , 2020, , .		3
25	Design of Shallow Foundation considering Site-Specific Rainfall and Water Table Data: Theoretical Framework and Application. International Journal of Geomechanics, 2019, 19, .	2.7	9
26	Selection of hazard-consistent hurricane scenarios for regional combined hurricane wind and flood loss estimation. Natural Hazards, 2018, 91, 671-696.	3.4	5
27	Robust design and optimization procedure for piled-raft foundation to support tall wind turbine in clay and sand. Soils and Foundations, 2018, 58, 744-755.	3.1	15
28	Geotechnical Design and Design Optimization of a Pile-Raft Foundation for Tall Onshore Wind Turbines in Multilayered Clay. International Journal of Geomechanics, 2018, 18, .	2.7	18
29	Design Optimization of I-Wall Levee System Supported by Sand Foundation. , 2018, , .		1
30	Robust Geotechnical Design of a Retaining Wall Subjected to Earthquake Loads. , 2017, , .		3
31	Effect of Sudden Shear Wave Velocity Contrast at Shallow Layer Interfaces on the Seismic Site Response for Charleston, SC. , 2017, , .		0
32	Properties of Shredded Roof Membraneâ€“Sand Mixture and Its Application as Retaining Wall Backfill under Static and Earthquake Loads. Recycling, 2017, 2, 8.	5.0	10
33	Analysis of the Bearing Capacity of Shallow Foundation in Unsaturated Soil Using Monte Carlo Simulation. International Journal of Geosciences, 2017, 08, 1231-1250.	0.6	14
34	Design and Analysis of Foundations for Onshore Tall Wind Turbines. , 2016, , .		6
35	Properties of chipped rubber roofing membrane and sand mixtures for civil engineering applications. Journal of Building Engineering, 2016, 7, 103-113.	3.4	13
36	Uniform Gradient Element Formulation with Hourglass Control Scheme for Solving Fully Coupled Finite-Element Equations for Saturated Soils. International Journal of Geomechanics, 2016, 16, .	2.7	1

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37	Simplified Finite-Element Model for Site Response Analysis of Unsaturated Soil Profiles. International Journal of Geomechanics, 2016, 16, .	2.7	8
38	Seismic Site Factors and Design Response Spectra Based on Conditions in Charleston, South Carolina. Earthquake Spectra, 2015, 31, 723-744.	3.1	18
39	Mapping joint hurricane wind and surge hazards for Charleston, South Carolina. Natural Hazards, 2014, 74, 375-403.	3.4	34
40	Levee scour from overtopping storm waves and scour counter measures. Ocean Engineering, 2013, 57, 72-82.	4.3	13
41	Robust Geotechnical Design of Drilled Shafts in Sand: New Design Perspective. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2007-2019.	3.0	65
42	Effect of Deformation-Induced Suction in the Behavior of Unsaturated Fine-Grained Soils Using Simplified Finite-Element Model. International Journal of Geomechanics, 2013, 13, 483-495.	2.7	8
43	Error Quantification for Hurricane Storm Surge Simulations along the Coasts of North Carolina, South Carolina, and Georgia. Natural Hazards Review, 2013, 14, 79-88.	1.5	0
44	New Soil-Water Characteristic Curve and Its Performance in the Finite-Element Simulation of Unsaturated Soils. International Journal of Geomechanics, 2012, 12, 209-219.	2.7	12
45	Bayesian updating of KJHH model for prediction of maximum ground settlement in braced excavations using centrifuge data. Computers and Geotechnics, 2012, 44, 1-8.	4.7	46
46	Micro-scale modeling of saturated sandy soil behavior subjected to cyclic loading. Soil Dynamics and Earthquake Engineering, 2010, 30, 1212-1225.	3.8	17
47	Dynamic Response of Pile Foundation in Partially Saturated Soils. , 2010, , .		3
48	Dynamics of unsaturated soils using various finite element formulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 611-631.	3.3	35
49	Fully coupled finite element model for dynamics of partially saturated soils. Soil Dynamics and Earthquake Engineering, 2009, 29, 1294-1304.	3.8	22