

Jim S Shiau

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,003
citations

361413

20
h-index

454955

30
g-index

55
all docs

55
docs citations

55
times ranked

291
citing authors

#	ARTICLE	IF	CITATIONS
1	Bearing capacity of a sand layer on clay by finite element limit analysis. Canadian Geotechnical Journal, 2003, 40, 900-915.	2.8	104
2	Undrained Stability of Footings on Slopes. International Journal of Geomechanics, 2011, 11, 381-390.	2.7	93
3	Finite Element Limit Analysis of Passive Earth Resistance in Cohesionless Soils. Soils and Foundations, 2008, 48, 843-850.	3.1	65
4	Effects of Light Crude Oil Contamination on the Physical and Mechanical Properties of Fine Sand. Soil and Sediment Contamination, 2015, 24, 833-845.	1.9	43
5	Determination of critical tunnel heading pressures using stability factors. Computers and Geotechnics, 2020, 119, 103345.	4.7	43
6	Pipeline burst-related ground stability in blowout condition. Transportation Geotechnics, 2021, 29, 100587.	4.5	42
7	Undrained Stability of Ring Foundations: Axisymmetry, Anisotropy, and Nonhomogeneity. International Journal of Geomechanics, 2022, 22, .	2.7	39
8	Three-Dimensional Analysis of Circular Tunnel Headings Using Broms and Bennermark's Original Stability Number. International Journal of Geomechanics, 2020, 20, .	2.7	36
9	Three-dimensional stability analysis of active and passive trapdoors. Tunnelling and Underground Space Technology, 2021, 107, 103635.	6.2	35
10	Two-dimensional tunnel heading stability factors F_1 , F_2 and F_3 . Tunnelling and Underground Space Technology, 2020, 97, 103293.	6.2	32
11	Multivariate adaptive regression splines analysis for 3D slope stability in anisotropic and heterogenous clay. Journal of Rock Mechanics and Geotechnical Engineering, 2023, 15, 1052-1064.	8.1	30
12	Undrained stability of active and passive trapdoors. Geotechnical Research, 2020, 7, 40-48.	1.4	29
13	Stability of active trapdoors in axisymmetry. Underground Space (China), 2022, 7, 50-57.	7.5	27
14	Three-Dimensional Heading Stability of Twin Circular Tunnels. Geotechnical and Geological Engineering, 2020, 38, 2973-2988.	1.7	26
15	Revisiting Broms and Bennermarks's original stability number for tunnel headings. Geotechnique Letters, 2018, 8, 310-315.	1.2	25
16	Revisiting Circular Tunnel Stability Using Broms and Bennermarks's Original Stability Number. International Journal of Geomechanics, 2021, 21, .	2.7	25
17	Bearing Capacity of Ring Foundations on Anisotropic and Heterogenous Clays: FEA, NGI-ADP, and MARS. Geotechnical and Geological Engineering, 2022, 40, 3913-3928.	1.7	25
18	Three-Dimensional Stability Investigation of Trapdoors in Collapse and Blowout Conditions. International Journal of Geomechanics, 2022, 22, .	2.7	23

#	ARTICLE	IF	CITATIONS
19	Relating volume loss and greenfield settlement. Tunnelling and Underground Space Technology, 2019, 83, 145-152.	6.2	21
20	Twin Tunnels Stability Factors F_c , F_s and F^3 . Geotechnical and Geological Engineering, 2021, 39, 335-345.	1.7	21
21	Lower Bound Finite Element Limit Analysis of Geo-Structures with Non-Associated Flow Rule. Computers and Geotechnics, 2022, 147, 104803.	4.7	20
22	Oil Contaminated Sand: An Emerging and Sustainable Construction Material. Procedia Engineering, 2015, 118, 1119-1126.	1.2	19
23	Stability analysis of twin circular tunnels using shear strength reduction method. Geotechnique Letters, 2020, 10, 311-319.	1.2	17
24	Stability Charts for Closely Spaced Strip Footings on Hoek's Brown Rock Mass. Geotechnical and Geological Engineering, 2022, 40, 3051-3066.	1.7	17
25	On the use of both diaphragm and secant pile walls for a basement upgrade project in Vietnam. Innovative Infrastructure Solutions, 2022, 7, 1.	2.2	14
26	Producing Undrained Stability Factors for Various Tunnel Shapes. International Journal of Geomechanics, 2022, 22, .	2.7	13
27	Stability of Spherical Cavity in Hoek's Brown Rock Mass. Rock Mechanics and Rock Engineering, 2022, 55, 5285-5296.	5.4	12
28	Numerical Investigation of Undrained Trapdoors in Three Dimensions. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	2.0	10
29	Sinkhole Stability in Elliptical Cavity under Collapse and Blowout Conditions. Geosciences (Switzerland), 2021, 11, 421.	2.2	10
30	Stability Factors $F_{c/s}$, $F_{s/s}$, and F^3 for Twin Tunnels in Three Dimensions. International Journal of Geomechanics, 2022, 22, .	2.7	10
31	Three-dimensional sinkhole stability of spherical cavity. Acta Geotechnica, 2022, 17, 3947-3958.	5.7	10
32	AN OVERVIEW ON OIL CONTAMINATED SAND AND ITS ENGINEERING APPLICATIONS. International Journal of GEOMATE, 2016, , .	0.3	7
33	Instability of Boreholes with Slurry. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	2.0	7
34	STABILITY CHARTS FOR UNSUPPORTED CIRCULAR TUNNELS IN COHESIVE SOILS. International Journal of GEOMATE, 2017, 13, .	0.3	6
35	Three-Dimensional Circular Trapdoor Stability. Transportation Infrastructure Geotechnology, 2022, 9, 173-184.	3.1	5
36	Bearing Capacity of Cylindrical Caissons in Cohesive-Frictional Soils Using Axisymmetric Finite Element Limit Analysis. Geotechnical and Geological Engineering, 2022, 40, 3929-3941.	1.7	5

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37	Pipeline Burst-Related Soil Stability in Collapse Condition. Journal of Pipeline Systems Engineering and Practice, 2022, 13, .	1.6	5
38	Numerical modelling of three-dimensional sinkhole stability using finite different method. Innovative Infrastructure Solutions, 2021, 6, 1.	2.2	4
39	INTRODUCING ADVANCED TOPICS IN GEOTECHNICAL ENGINEERING TEACHING – TUNNEL MODELLING. International Journal of GEOMATE, 2016, , .	0.3	3
40	THE USE OF SINKHOLE MODELS IN ADVANCED GEOTECHNICAL ENGINEERING TEACHING. International Journal of GEOMATE, 2016, , .	0.3	3
41	Analysis of Shaft-Grouted Piles Using Load-Transfer Method. International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1.	2.0	3
42	ESTIMATION OF TUNNELING INDUCED GROUND SETTLEMENT USING PRESSURE RELAXATION METHOD. International Journal of GEOMATE, 2017, 13, .	0.3	2
43	STABILITY CHARTS FOR UNSUPPORTED PLANE STRAIN TUNNEL HEADINGS IN HOMOGENEOUS UNDRAINED CLAY. International Journal of GEOMATE, 2018, 14, .	0.3	2
44	Improvement of Bearing Capacity of Footings Using Reinforced Granular Trench. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	2.0	2
45	STABILITY CHARTS FOR A TALL TUNNEL IN UNDRAINED CLAY. International Journal of GEOMATE, 2016, , .	0.3	2
46	Ground improvement using waste shell for farm roads and embankments. Journal of Agricultural Engineering, 2018, 49, 29-33.	1.5	1
47	STABILITY CHART FOR UNSUPPORTED SQUARE TUNNELS IN HOMOGENEOUS UNDRAINED CLAY. International Journal of GEOMATE, 2018, 15, .	0.3	1
48	Shear strength of soil by using clam shell waste as recycle aggregate. Journal of Agricultural Engineering, 2020, 51, 155-160.	1.5	1
49	Effect of loading eccentricity on the ultimate lateral resistance of twin-piles in clay. Soils and Foundations, 2022, 62, 101126.	3.1	1
50	A Shakedown Limit under Hertz Contact Pressure. Advanced Materials Research, 2011, 291-294, 1506-1510.	0.3	0
51	A REVISIT TONICOLL HIGHWAY EXCAVATION IN SINGAPORE. International Journal of GEOMATE, 2018, 14, .	0.3	0
52	NUMERICAL SIMULATION OF STAGED BRACED EXCAVATION IN SAND – O6 MRT STATION. International Journal of GEOMATE, 2018, 14, .	0.3	0
53	Pull-out Resistance of Single Piles and Parametric Study using the Finite Difference Method (FDM). American Journal of Civil Engineering and Architecture, 2018, 6, 193-198.	0.2	0