# Jim S Shiau

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | 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 |
| 2 | Three-Dimensional Circular Trapdoor Stability. Transportation Infrastructure Geotechnology, 2022, 9, 173-184. | 3.1 | 5 |
| 3 | Stability of active trapdoors in axisymmetry. Underground Space (China), 2022, 7, 50-57. | 7.5 | 27 |
| 4 | 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 |
| 5 | Undrained Stability of Ring Foundations: Axisymmetry, Anisotropy, and Nonhomogeneity. International Journal of Geomechanics, 2022, 22, . | 2.7 | 39 |
| 6 | Stability Factors  F <sub>c</sub>  ,  F <sub>s</sub>  , and  F <sub>Î³</sub>  for Twin Tunnels in Three Dimensions. International Journal of Geomechanics, 2022, 22, . | 2.7 | 10 |
| 7 | Analysis of Shaft-Grouted Piles Using Load-Transfer Method. International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1. | 2.0 | 3 |
| 8 | Three-Dimensional Stability Investigation of Trapdoors in Collapse and Blowout Conditions. International Journal of Geomechanics, 2022, 22, . | 2.7 | 23 |
| 9 | Stability Charts for Closely Spaced Strip Footings on Hoekâ€“Brown Rock Mass. Geotechnical and Geological Engineering, 2022, 40, 3051-3066. | 1.7 | 17 |
| 10 | Three-dimensional sinkhole stability of spherical cavity. Acta Geotechnica, 2022, 17, 3947-3958. | 5.7 | 10 |
| 11 | 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 |
| 12 | Effect of loading eccentricity on the ultimate lateral resistance of twin-piles in clay. Soils and Foundations, 2022, 62, 101126. | 3.1 | 1 |
| 13 | 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 |
| 14 | Stability of Spherical Cavity in Hoekâ€“Brown Rock Mass. Rock Mechanics and Rock Engineering, 2022, 55, 5285-5296. | 5.4 | 12 |
| 15 | Lower Bound Finite Element Limit Analysis of Geo-Structures with Non-Associated Flow Rule. Computers and Geotechnics, 2022, 147, 104803. | 4.7 | 20 |
| 16 | Pipeline Burstâ€“Related Soil Stability in Collapse Condition. Journal of Pipeline Systems Engineering and Practice, 2022, 13, . | 1.6 | 5 |
| 17 | Producing Undrained Stability Factors for Various Tunnel Shapes. International Journal of Geomechanics, 2022, 22, . | 2.7 | 13 |
| 18 | Twin Tunnels Stability Factors Fc, Fs and FÎ³. Geotechnical and Geological Engineering, 2021, 39, 335-345. | 1.7 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Three-dimensional stability analysis of active and passive trapdoors. Tunnelling and Underground Space Technology, 2021, 107, 103635. | 6.2 | 35 |
| 20 | Numerical Investigation of Undrained Trapdoors in Three Dimensions. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1. | 2.0 | 10 |
| 21 | Revisiting Circular Tunnel Stability Using Broms and Bennermarksâ€™ Original Stability Number. International Journal of Geomechanics, 2021, 21, . | 2.7 | 25 |
| 22 | Numerical modelling of three-dimensional sinkhole stability using finite different method. Innovative Infrastructure Solutions, 2021, 6, 1. | 2.2 | 4 |
| 23 | Pipeline burst-related ground stability in blowout condition. Transportation Geotechnics, 2021, 29, 100587. | 4.5 | 42 |
| 24 | Improvement of Bearing Capacity of Footings Using Reinforced Granular Trench. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1. | 2.0 | 2 |
| 25 | Instability of Boreholes with Slurry. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1. | 2.0 | 7 |
| 26 | Sinkhole Stability in Elliptical Cavity under Collapse and Blowout Conditions. Geosciences (Switzerland), 2021, 11, 421. | 2.2 | 10 |
| 27 | Determination of critical tunnel heading pressures using stability factors. Computers and Geotechnics, 2020, 119, 103345. | 4.7 | 43 |
| 28 | Three-Dimensional Analysis of Circular Tunnel Headings Using Broms and Bennermarkâ€™s Original Stability Number. International Journal of Geomechanics, 2020, 20, . | 2.7 | 36 |
| 29 | Three-Dimensional Heading Stability of Twin Circular Tunnels. Geotechnical and Geological Engineering, 2020, 38, 2973-2988. | 1.7 | 26 |
| 30 | Stability analysis of twin circular tunnels using shear strength reduction method. Geotechnique Letters, 2020, 10, 311-319. | 1.2 | 17 |
| 31 | Undrained stability of active and passive trapdoors. Geotechnical Research, 2020, 7, 40-48. | 1.4 | 29 |
| 32 | Two-dimensional tunnel heading stability factors F, F and F. Tunnelling and Underground Space Technology, 2020, 97, 103293. | 6.2 | 32 |
| 33 | Shear strength of soil by using clam shell waste as recycle aggregate. Journal of Agricultural Engineering, 2020, 51, 155-160. | 1.5 | 1 |
| 34 | Relating volume loss and greenfield settlement. Tunnelling and Underground Space Technology, 2019, 83, 145-152. | 6.2 | 21 |
| 35 | Revisiting Broms and Bennermarksâ€™ original stability number for tunnel headings. Geotechnique Letters, 2018, 8, 310-315. | 1.2 | 25 |
| 36 | Ground improvement using waste shell for farm roads and embankments. Journal of Agricultural Engineering, 2018, 49, 29-33. | 1.5 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | STABILITY CHARTS FOR UNSUPPORTED PLANE STRAIN TUNNEL HEADINGS IN HOMOGENEOUS UNDRAINED CLAY. International Journal of GEOMATE, 2018, 14, . | 0.3 | 2 |
| 38 | STABILITY CHART FOR UNSUPPORTED SQUARE TUNNELS IN HOMOGENEOUS UNDRAINED CLAY. International Journal of GEOMATE, 2018, 15, . | 0.3 | 1 |
| 39 | A REVISIT TONICOLL HIGHWAY EXCAVATION IN SINGAPORE. International Journal of GEOMATE, 2018, 14, . | 0.3 | 0 |
| 40 | NUMERICAL SIMULATION OF STAGED BRACED EXCAVATION IN SAND ~ O6 MRT STATION. International Journal of GEOMATE, 2018, 14, . | 0.3 | 0 |
| 41 | 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 |
| 42 | STABILITY CHARTS FOR UNSUPPORTED CIRCULAR TUNNELS IN COHESIVE SOILS. International Journal of GEOMATE, 2017, 13, . | 0.3 | 6 |
| 43 | ESTIMATION OF TUNNELING INDUCED GROUND SETTLEMENT USING PRESSURE RELAXATION METHOD. International Journal of GEOMATE, 2017, 13, . | 0.3 | 2 |
| 44 | AN OVERVIEW ON OIL CONTAMINATED SAND AND ITS ENGINEERING APPLICATIONS. International Journal of GEOMATE, 2016, , . | 0.3 | 7 |
| 45 | INTRODUCING ADVANCED TOPICS IN GEOTECHNICAL ENGINEERING TEACHING â€“ TUNNEL MODELLING. International Journal of GEOMATE, 2016, , . | 0.3 | 3 |
| 46 | THE USE OF SINKHOLE MODELS IN ADVANCED GEOTECHNICAL ENGINEERING TEACHING. International Journal of GEOMATE, 2016, , . | 0.3 | 3 |
| 47 | STABILITY CHARTS FOR A TALL TUNNEL IN UNDRAINED CLAY. International Journal of GEOMATE, 2016, , . | 0.3 | 2 |
| 48 | Oil Contaminated Sand: An Emerging and Sustainable Construction Material. Procedia Engineering, 2015, 118, 1119-1126. | 1.2 | 19 |
| 49 | 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 |
| 50 | Undrained Stability of Footings on Slopes. International Journal of Geomechanics, 2011, 11, 381-390. | 2.7 | 93 |
| 51 | A Shakedown Limit under Hertz Contact Pressure. Advanced Materials Research, 2011, 291-294, 1506-1510. | 0.3 | 0 |
| 52 | Finite Element Limit Analysis of Passive Earth Resistance in Cohesionless Soils. Soils and Foundations, 2008, 48, 843-850. | 3.1 | 65 |
| 53 | Bearing capacity of a sand layer on clay by finite element limit analysis. Canadian Geotechnical Journal, 2003, 40, 900-915. | 2.8 | 104 |