الاسم المستخدم في نشرالبحوث حسب الكوكل سكولر

**Zuhair Kadhim Jahanger**

الاتجاهات البحثية

Geotechnical Engineering, Soil Structure Interaction, Soil Mechanics and Foundation Engineering, Numerical Modeling in Geotechnical Engineering, Discrete Element Modeling (DEM), Soil Field Tests, Thermal conductivity, Experiments and Simulations (FEM) under Static and Cyclic Loading, Collapsible Soils (Gypseous Soils), Displacement Fields in Footing-Sand Interactions.

الدرجة العلمية

**Assistant Professor**

الأبحاث المنشورة

* Jahanger, Z.K., 2004. Effect of Cyclic Soaking and Draining on Compressibility Characteristics of Gypseous Soils Stabilized with Emulsified Asphalt (M.Sc. Thesis, Al Mustansiriya University).
* Ahmed, A.A. and Jahanger, Z.K., 2008. Skin Friction Between Undisturbed Over Consolidated SILTY Clay Soils and Concrete. Journal of Engineering, 14(4).
* Jahanger, Z.K., 2009. Comparison study for allowable bearing capacity determination methods from plate load test. The 6th engineering conference, University of Baghdad, Vol. 1, 333-345.
* Jahanger, Z.K., Ahmed, A.A. and Jahanger, Q.K., 2010. Effect of plate load test curve shape on modulus of subgrade reaction of compacted subbase soil. Proceeding of 2nd Annual Scientific Conference of the College of Engineering, University of Babylon, The Iraqi Journal for Mechanical and Material Engineering, Special Issue E, 1-12.
* Jahanger, Q.K. and Jahanger, Z.K., 2011. A COMPARISON OF (CBR) SOAKED TESTWITH BRITISH SPECIFICATIONS FOR FINE-GRAINED SOILS FROM AL-KUT IN IRAQ. *Al-Qadisiyah Journal for Engineering Sciences*, *4*(1), pp.532-547.
* Jahanger, Z.K., 2011. Relation between standard penetration test and skin resistance of driven concrete pile in over-consolidated clay soil. *Journal of Engineering*, *17*(5), pp.1355-1370.
* Jahanger, Z.K. and Ahmed, A.A., 2013. Correlation between point load index and very low uniaxial compressive strength of some Iraqi rocks. *Australian Journal of Basic and Applied Sciences*, *7*(7), pp.216-229.
* Jahanger, Z.K., Antony, S.J. and Richter, L., 2016, September. Displacement patterns beneath a rigid beam indenting on layered soil. In *8th American Conference*. International Society for Terrain Vehicle Systems, Paper No.67, September 12-14, 2016, Michigan, USA.
* Jahanger, Z.K. and Antony, S.J., 2017, July. Application of digital particle image velocimetry in the analysis of scale effects in granular soil. In *International Scholarly and Scientific Research & Innovation* (Vol. 11, No. 7, pp. 910-915). World Academy of Science, Engineering and Technology (WASET).
* Jahanger, Z.K. and Antony, S.J., 2017. Application of particle image velocimetry in the analysis of scale effects in granular soil. *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, *11*(7), pp.832-837.
* Jahanger, Z.K., Sujatha, J. and Antony, S.J., 2018. Local and global granular mechanical characteristics of grain–structure interactions. *Indian Geotechnical Journal*, *48*(4), pp.753-767.
* Jahanger, Z.K., Antony, S.J., Martin, E. and Richter, L., 2018. Interaction of a rigid beam resting on a strong granular layer overlying weak granular soil: Multi-Methodological Investigations. *Journal of Terramechanics*, *79*, pp.23-32.
* Jahanger, Z.K., 2018. *Micromechanical investigations of foundation structures-granular soil interactions* (Doctoral dissertation, University of Leeds).
* Antony, S.J. and Jahanger, Z.K., 2018. Displacement Fields in Footing-Sand Interactions under Cyclic Loading. *International Journal of Geotechnical and Geological Engineering*, *12*(11), pp.707-711.
* Jahanger, Z.K., Antony, S.J. and Hirani, A., 2020, March. Foundation relative stiffness effects in sand under static loading. In *AIP Conference Proceedings* (Vol. 2213, No. 1, p. 020002). AIP Publishing LLC.
* Antony, S.J. and Jahanger, Z.K., 2020. Local Scale Displacement Fields in Grains–Structure Interactions Under Cyclic Loading: Experiments and Simulations. *Geotechnical and Geological Engineering*, *38*(2), pp.1277-1294.
* Judes Sujatha, S., Jahanger, Z.K., Barbhuiya, S. and Antony, S.J., 2020. Fabrics-Shear Strength Links of Silicon-Based Granular Assemblies. *Journal of Mechanics*, *36*(3), pp.323-330.
* Jahanger, Z.K., 2021. Evaluation of the thermal conductivity of middle part of Iraqi soil. *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2020.12.553>.
* Jahanger, Z.K., 2021. Evaluation of the thermal conductivity of middle part of Iraqi soil. *Materials Today: Proceedings*, *42*, pp.2431-2435.
* Jahanger, Z.K., Al-Barazanchi, A.J.N. and Ahmed, A.A., 2021. Field Soil Electrical Resistivity Measurements of Some Soil of Iraq. In Civil Infrastructures Confronting Severe Weathers and Climate Changes Conference (pp. 114-122). Springer, Cham. <https://doi.org/10.1007/978-3-030-80155-7_8>

Jahanger, Z.K., Jahanger, Q.K. and Joseph Antony, S., 2022. Assessment of Effect of Tidal Level and Footing Proximities on Retaining Wall-Grain Interactions Using Finite Element Method. In Geotechnical Engineering and Sustainable Construction: Sustainable Geotechnical Engineering (pp. 125-133). Singapore: Springer Singapore.

* Al-Khalidi, E.E., Ahmed, M.D., Sheikha, A.A. and Jahanger, Z.K., Effect of Length to Diameter Ratio on Column Bearing Capacity Stabilized with Sodium Silicate. the Third International Conference on Geotechnical Engineering-Iraq, AIP conference proceedings, in press.
* Humam Khaleel Taher and Jahanger, Z.K., Liquefaction Potential Effect in Makhool Earth Dam under Seismic Impact, the Third International Conference on Geotechnical Engineering-Iraq, AIP conference proceedings, in press.
* Humam Khaleel Taher and Jahanger, Z.K., Seismic Impact on Makhool Earthdam in Flood and Drought Seasons. the 2nd International Conference on Engineering and Advanced Technology (ICEAT)2022), AIP conference proceedings, in press.

الكتب والمؤلفات

* N/A

رسائل الماجستيرالذي اشرف عليها

* Analysis of Potential Liquefaction in Makhool Earth Dam under Seismic Impact, 2022

اطاريح الدكتوراه الذي اشرف عليها

* N/A