

List of Publications (Journals only)

1. Das, R., **Singh, A.K***. 2025. "Geo-Mechanical Performance of Copper Slag-Infused Hybrid Geopolymer for Stabilizing Sandy Soils under Static and Cyclic Loads". *Journal of Rock Mechanics and Geotechnical Engineering*.
<https://doi.org/10.1016/j.jrmge.2025.09.030>. (Pre-print available), **(I.F = 10.2)**.
2. **Singh, A.K***, Das, R. 2025. "3-Dimensional Numerical modelling for a thin layered low volume bituminous roads under varying tire pressures and material compositions". *International Journal of Geomechanics, ASCE*, 26(3); 04026003.1-17.
<https://doi.org/10.1061/IJGNALGMENG-10301>. **(I.F = 3.3)**.
3. Das, R., **Singh, A.K***. 2025. "Mechanical and microstructural evaluation of alkali-activated copper slag-based geopolymer: An eco-friendly and sustainable alternative binder". *Journal of Materials in Civil Engng, ASCE*, 38(4), 04026038.1-14.
<https://doi.org/10.1061/JMCEE7.MTENG-20942>. **(I.F = 3.0)**.
4. Dixit, A., Mishra, A., **Singh, A.K***, Das, S.K. 2024. "Experimental and modelling studies for deformation characteristics of coal mines overburden soil under cyclic loadings in construction of haul roads". *International Journal of Geomechanics, ASCE*, 25(3); 06025001-11. <https://doi.org/10.1061/IJGNALGMENG-10243>. **(I.F = 3.3)**
5. Mishra, A., Dixit, A., **Singh, A.K***, Das, S.K. 2024. "Strength, deformation, and environmental impact assessment of cement stabilized mine overburden soil". *Journal of Cleaner Production*, 447; 141475. doi.org/10.1016/j.jclepro.2024.141475. **(I.F = 11.1)**
6. **Singh, A.K.**, Sahoo, J.P. 2023. "Untrained cyclic loading response of subgrade soil subjected to varying moisture content and stress level." *International Journal of Geomechanics, ASCE*, 23(2); 04022284. <https://doi.org/10.1061/IJGNALGMENG-6536>. **(I.F = 3.3)**
7. **Singh, A.K.**, Sahoo, J.P. 2022. "Experimental modelling for time dependent strength behaviour of lignosulfonate treated high plastic clay." *Journal of Materials in Civil Engineering, ASCE*, 34(7); 06022203. [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0004292](https://doi.org/10.1061/(ASCE)MT.1943-5533.0004292). **(I.F = 3.0)**
8. Sahoo, J.P., **Singh, A.K.** 2022. "Prediction models for computation of deformations and interface stresses in a two layered pavement structure." *International Journal of Geomechanics, ASCE*, 22(1); 06021034. [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002246](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002246). **(I.F = 3.3)**
9. **Singh, A.K.**, Sahoo, J.P. 2021. "Undrained cyclic response of lignosulfonate treated high plastic clay." *Soil Dynamics and Earthquake Engineering*. 150: 106943. <https://doi.org/10.1016/j.soildyn.2021.106943>. **(I.F = 4.6)**

10. **Singh A.K.**, Sahoo, J.P. 2021. "A study of the performance of Lignosulfonate treated high plastic clay under static and cyclic loading." *Bulletin of Engineering Geology and Environment*, 80: 8265-8278. <https://doi.org/10.1007/s10064-021-02444-7>. **(I.F = 4.2)**
11. **Singh, A.K.**, Sahoo, J.P., 2021. "Rutting prediction models for flexible pavements: historical and recent developments." *Journal of Traffic and Transportation Engineering (English edition)*, 24(1); 23-46. <https://doi.org/10.1016/j.jtte.2021.04.003>. **(I.F = 6.8)**
12. **Singh, A.K.**, Sahoo, J.P. 2020. "Analysis and design of two layered flexible pavement system: a new mechanistic approach." *Computers and Geotechnics*, 117: 103238.1-103238.11. <https://doi.org/10.1016/j.compgeo.2019.103238>. **(I.F = 3.3)**
13. **Singh, A.K.**, Mittal, S. 2018. "Analysis and design of reinforced unpaved roads by modified structural number method." *International Journal of Geosynthetics and Ground Engineering*, 4(1): 1-8. <https://doi.org/10.1007/s40891-017-0115-5>. **(I.F = 2.3).**

** Corresponding author*