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LIST OF PUBLICATIONS

Journal articles:

1. **Gupta, S.,** and Kumar, S. 2023. “A state-of-the-art review of the deep soil mixing technique for ground improvement.” *Innovative Infrastructure Solutions*, 8 (4): 129. <https://doi.org/10.1007/s41062-023-01098-6>.
2. **Gupta, S.,** and Kumar, S. 2023. “Dynamic behavior of geopolymer stabilized kaolin clay under long-term cyclic loading.” *Construction and Building Materials*, 407 (September): 133562. Elsevier Ltd. <https://doi.org/10.1016/j.conbuildmat.2023.133562>.
3. **Gupta, S.,** and Kumar, S. 2024. “Mechanical and microstructural analysis of soft kaolin clay stabilized by GGBS and dolomite-based geopolymer.” *Construction and Building Materials*, 421 (October 2023): 135702. Elsevier Ltd. <https://doi.org/10.1016/j.conbuildmat.2024.135702>.
4. Pradeep, N. M., Kumar, S., **Gupta, S.,** and Nishant, M. 2024. “Behavior of group of geosynthetic encased granular piles with tire chips- aggregates mixture under static and cyclic loading – A model study.” *Construction and Building Materials*, 431 (April): 136507. Elsevier Ltd. <https://doi.org/10.1016/j.conbuildmat.2024.136507>.
5. **Gupta, S.,** Kumar, S., Pradeep, N. M., and Nishant, M. 2024. “Behavior of embankment on soft ground improved with soil-geopolymer deep mix columns under static and cyclic loading.” *International Journal of Geomechanics*, ASCE. <https://doi.org/10.1061/IJGNALGMENG-1058>.
6. **Gupta, S.,** Kumar, S., Pradeep, N. M., & Nishant, M. 2025. “Performance analysis of soil-geopolymer deep mix column in soft soil under static and cyclic

loading.” *Soil Dynamics and Earthquake Engineering*, 194 (July 2025), 109368. <https://doi.org/10.1016/j.soildyn.2025.109368>

7. Pradeep, N. M., Kumar, S., **Gupta, S.**, & Nishant, M. (2025). Experimental determination of optimum tire chips-aggregates mixture in combi-grid encased granular piles in soft soil under cyclic loading. *Soil Dynamics and Earthquake Engineering*, 198, 109598. <https://doi.org/10.1016/j.soildyn.2025.109598>

International conference:

1. **Gupta, S.**, Kumar, S. “Geopolymer soil column-supported embankments: a study of soft ground improvement through experimental and numerical approaches.” *Geotech Asia* 2025. (Accepted)