

List of Publications

Journal:

1. **Majumder, M.,** and Chakraborty, D. (2022). “Uplift capacity and failure mechanism of under-reamed piles in clay based on lower bound finite element limit analysis.” *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Springer*, 92(4), 647-658. DOI: 10.1007/s40010-021-00736-x. (SCIE, Impact Factor: 0.8/2023).
2. **Majumder, M.,** and Chakraborty, D. (2022). “Under-reamed pile-soil interaction in sand under lateral loading: A three-dimensional numerical study.” *Ocean Engineering, Elsevier*, 263, 112398. DOI: 10.1016/j.oceaneng.2022.112398. (SCIE, Impact Factor: 4.6/2023).
3. **Majumder, M.,** and Chakraborty, D. (2022). “Bearing capacity of under-reamed piles in clay using lower bound finite element limit analysis.” *International Journal of Geotechnical Engineering, Taylor and Francis*, 16(9), 1104–1115. DOI: 10.1080/19386362.2022.2044102. (SCOPUS, Impact Factor: 2.3/2023).
4. **Majumder, M.,** Chakraborty, D., and Kumawat, V. (2022). “Model test study on single and group under-reamed piles in sand under compression and tension.” *Innovative Infrastructure Solutions, Springer*, 7(1), 1-11. DOI: 10.1007/s41062-021-00725-4. (SCOPUS, Impact Factor: 2.3/2023).
5. **Majumder, M.,** and Chakraborty, D. (2021). “Effects of scour-hole depth on the bearing and uplift capacities of under-reamed pile in clay.” *Ocean Engineering, Elsevier*, 240, 109927. DOI: 10.1016/j.oceaneng.2021.109927. (SCIE, Impact Factor: 4.6/2023).
6. **Majumder, M.,** and Chakraborty, D. (2021). “Effects of scour-hole dimensions and bulb positions on the lateral response of under-reamed pile in soft clay.” *Applied Ocean Research, Elsevier*, 117, 102942. DOI: 10.1016/j.apor.2021.102942. (SCIE, Impact Factor: 4.3/2023).
7. **Majumder, M.,** and Chakraborty, D. (2021). “Bearing and uplift capacities of under-reamed piles in soft clay overlaid by stiff clay using lower-bound finite element limit analysis.” *Frontiers of Structural and Civil Engineering, Springer*, 15(2), 537-551. DOI: 10.1007/s11709-021-0708-x. (SCIE, Impact Factor: 2.9/2023).
8. **Majumder, M.,** and Chakraborty, D. (2021). “Bearing capacity of tapered piles in clay under undrained condition.” *International Journal of Geotechnical Engineering, Taylor and Francis*, 15(6), 767-773. DOI: 10.1080/19386362.2018.1514755. (SCOPUS, Impact Factor: 2.3/2023).
9. **Majumder, M.,** and Chakraborty, D. (2021). “Three-dimensional numerical analysis of under-reamed pile in clay under lateral loading.” *Innovative Infrastructure Solutions, Springer*, 6(2), 1-17. DOI: 10.1007/s41062-020-00428-2. (SCOPUS, Impact Factor: 2.3/2023).
10. Agrawal, S., **Majumder, M.,** Bisht, R. S., and Prashant, A. (2018). “Archaeological studies at dholavira using gpr.” *Current Science, Indian Academy of Sciences*, 114(4), 879-887. DOI: 10.18520/cs/v114/i04/879-887. (SCIE, Impact Factor: 1.0/2022).

Book Chapter:

1. **Majumder, M.**, and Chakraborty, D. (2022). “Optimizing the bearing capacity of pile foundation in clay.” In: *Dey A.K., Mandal J.J., Manna B. (eds) Proceedings of the 7th Indian Young Geotechnical Engineers Conference, Lecture Notes in Civil Engineering, Springer, Singapore, Vol. 195, pp. 55–63.*

Conference Proceeding:

1. Khawlhing, V., & **Majumder, M.**, (2025). Bearing capacity of strip footing due to nearby existing footing on hoek-brown rock mass. *Proceedings of the 10th Indian Young Geotechnical Engineers Conference (10th IYGEC 2025)*, March 11-12, 2025, IIT Indore, Madhya Pradesh, India, Paper Id :118.
2. Prajapati, P., & **Majumder, M.** (2025). Seismic lateral earth pressure on the retaining wall with sand-tyre mixture as a backfill material. *Proceeding of the 10th Indian Young Geotechnical Engineers Conference 2025 (10th IYGEC 2025)*, March 11-12, 2025, IIT Indore, Madhya Pradesh, India, Paper Id: 119.
3. Apoorva, & **Majumder, M.** (2025). Uplift capacity of under-reamed pile in cohesionless soil underlaid by cohesive soil. *Proceedings of the 10th Indian Young Geotechnical Engineers Conference (10th IYGEC 2025)*, March 11-12, 2025, IIT Indore, Madhya Pradesh, India, Paper Id :115.
4. Mishra, V. & **Majumder, M.** (2025). Pull out capacity of inverted partially tapered pile in sand. *Proceedings of the 10th Indian Young Geotechnical Engineers Conference (10th IYGEC 2025)*, March 11-12, 2025, IIT Indore, Madhya Pradesh, India, Paper Id :140.
5. Gupta, Y., **Majumder, M.**, & Deep Kamal, U. (2024). Bearing capacity of shallow circular footing with tapered skirt. *Proceedings of the Indian Geotechnical Conference 2024 (IGC-2024)*, December 19-21, 2024, MIT, Chhatrapati Sambhajinagar, Maharashtra, India, Paper Id: FSD_16_039.