Publication

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 Science*****s, Springer,** 92(4), 647–658. DOI: 10.1007/s40010-021-00736-x. (**Science Citation Index Expanded, Impact Factor: 1.291/2021**).
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. (**Science Citation Index, Impact Factor: 4.372/2021**).
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, SJR: 0.57/2021**).
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, SJR: 0.51/2021**).
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. (**Science Citation Index, Impact Factor: 4.372/2021**).
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. (**Science Citation Index Expanded, Impact Factor: 3.761/2021**).
7. **Majumder, M.**, and Chakraborty, D. (2021). "Bearing and uplift capacities of under-reamed piles in soft clay underlaid 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. (**Science Citation Index Expanded, Impact Factor: 3.252/2021**).
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, SJR: 0.57/2021**).
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, SJR: 0.51/2021**).
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. (**Science Citation Index Expanded, Impact Factor: 1.169/2021**).

Chapters in Book:

1. **Majumder, M.**, and Chakraborty, D. (2022). "Optimizing the bearing capacity of pile foundation in clay." *In Edited Book entitled '**Proceedings of the 7th Indian Young Geotechnical Engineers Conference 7IYGEC–2019'** Edited by Ashim Kanti Dey, Jagat Jyoti Mandal, and Bappaditya Manna,* **Lecture Notes in Civil Engineering, Springer,** Singapore, Vol. 195, pp. 55–63. DOI: 10.1007/978-981-16-6456-4_7. (**SCOPUS, SJR: 0.13/2021**).