

**Publications:**

**Research Articles**

1. Alam, Md. J., Kamal, A. S. M. M., Ahmed, Md. K., Rahman, M., Hasan, M., & Rahman, S. A. R. (2023). Nutrient and heavy metal dynamics in the coastal waters of St. Martin's island in the Bay of Bengal. *Heliyon*, 9(10), e20458. <https://doi.org/10.1016/j.heliyon.2023.e20458>
2. Samm-A, A., Kamal, A. S. M. M., Hossain, A., Hossain, M. M., Hassan, S. M. K., Jahan, H., Hayat, H., Jui, T. J., Sifa, S. F., Awal, A. S. N. (2023). Capacity Assessment of Community Clinic (CC) as an Information and Support Hub during Future Outbreaks: Lessons learnt from the COVID-19 outbreak. *The Dhaka University Journal of Earth and Environmental Sciences*.
3. Alam, A., Ahmed, B., Sammonds, P., & Maksud Kamal, A. S. M. (2023). Applying rainfall threshold estimates and frequency ratio model for landslide hazard assessment in the coastal mountain setting of South Asia. *Natural Hazards Research*. <https://doi.org/10.1016/J.NHRES.2023.08.002>
4. Hossain, M. S., Numada, M., Mitu, M., Timsina, K., Krisna, C., Rahman, M. Z., Kamal, A. S. M. M., & Meguro, K. (2023). Simplified engineering geomorphic unit-based seismic site characterization of the detailed area plan of Dhaka city, Bangladesh. *Scientific Reports*, 13(1), 11151. <https://doi.org/10.1038/S41598-023-37628-6>
5. Farazi, A. H., Hossain, M. S., Ito, Y., Piña-Flores, J., Kamal, A. S. M. M., & Rahman, M. Z. (2023). Shear wave velocity estimation in the Bengal Basin, Bangladesh by HVSR analysis: implications for engineering bedrock depth. *Journal of Applied Geophysics*, 211, 104967. <https://doi.org/10.1016/J.JAPPGEO.2023.104967>
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7. Kamal, A. S. M. M., Al-Montakim, M. N., Hasan, M. A., Mitu, M. M. P., Gazi, M. Y., Uddin, M. M., & Mia, M. B. (2023). Relationship between Urban Environmental Components and Dengue Prevalence in Dhaka City—An Approach of Spatial Analysis of Satellite Remote Sensing, Hydro-Climatic, and Census Dengue Data. *International Journal of Environmental Research and Public Health*, 20(5), 3858. <https://doi.org/10.3390/IJERPH20053858/S1>
8. Kamal, A. S. M., Fahim, A. K. F., & Shahid, S. (2023). Changes in Wet Bulb Globe Temperature and Risk to Heat-Related Hazards: An Overview of Bangladesh. *Shamsuddin*

- and Fahim, Abul Kashem Faruki, Changes in Wet Bulb Globe Temperature and Risk to Heat-Related Hazards: An Overview of Bangladesh. <https://dx.doi.org/10.2139/ssrn.4330320>
9. Kamal, A. S. M., Hossain, F., Ahmed, B., Rahman, M. Z., & Sammonds, P. (2023). Assessing the effectiveness of landslide slope stability by analysing structural mitigation measures and community risk perception. *Natural Hazards*, 1-26.
  10. Sann-A, A., Kamal, A. S. M. M., & Rahman, M. Z. (2023). Earthquake and rainfall-induced landslide hazard assessment of Kutupalong Rohingya camp using meteorological and geological information. *Stochastic Environmental Research and Risk Assessment*, 1–13. <https://doi.org/10.1007/S00477-023-02418-Z/METRICS>
  11. Akhter, S., Qiao, F., Wu, K., Yin, X., Chowdhury, K. M. A., Ahmed, M. K., & Kamal, A. S. M. M. (2022). Spatiotemporal variations of the thermohaline structure and cyclonic response in the northern Bay of Bengal: The evaluation of a global ocean forecasting system. *Journal of Sea Research*, 182, 102188. <https://doi.org/10.1016/J.SEARES.2022.102188>
  12. Fahim, A. K. F., Kamal, A. S. M. M., & Shahid, S. (2022). Spatiotemporal change in groundwater sustainability of Bangladesh and its major causes. *Stochastic Environmental Research and Risk Assessment*, 1–16. <https://doi.org/10.1007/S00477-022-02294-Z/FIGURES/11>
  13. Fahim, A. K. F., Rahman, Md. Z., Hossain, Md. S., & Kamal, A. S. M. M. (2022). Liquefaction resistance evaluation of soils using artificial neural network for Dhaka City, Bangladesh. *Natural Hazards* 2022, 1–31. <https://doi.org/10.1007/S11069-022-05331-W>
  14. Hossain, M. S., Bintu, F. A., Rahman, M. Z., Islam, M. K., Kamal, A. M., & Hossain, A. (2022). A Simplified Analytical Model to Evaluate Hospital Preparedness for Earthquake Emergency Response. *The Dhaka University Journal of Earth and Environmental Sciences*, 11(1), 53–68. <https://doi.org/10.3329/DUJEES.V11I1.63711>
  15. Jones, B. G., Al-Nasrawi, A. K. M., Fuentes, I., Gazi, M. Y., Maksud Kamal, A. S. M., Uddin, M. N., Anwar, M., Bhuiyan, H., & Rahman, M. Z. (2022). The Stability and Suitability of the Bhasan Char Island as an Accommodation for the Forcibly Displaced Myanmar Nationals (FDMN). *Sustainability* 2022, Vol. 14, Page 747, 14(2), 747. <https://doi.org/10.3390/SU14020747>
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Approaches. [https://assets.researchsquare.com/files/rs-2261689/v1\\_covered.pdf?c=1668606163](https://assets.researchsquare.com/files/rs-2261689/v1_covered.pdf?c=1668606163)

17. Kamal, A. S. M. M., Ahmed, B., Tasnim, S., & Sammonds, P. (2022). Assessing rainfall-induced landslide risk in a humanitarian context: The Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Natural Hazards Research*, 2(3), 230–248. <https://doi.org/10.1016/J.NHRES.2022.08.006>
18. Kamal, A. S. M. M., Hossain, F., Ahmed, B., & Sammonds, P. (2022). Analyzing the 27 July 2021 rainfall-induced catastrophic landslide event in the Kutupalong Rohingya Camp in Cox's Bazar, Bangladesh. *Geoenvironmental Disasters*, 9(1), 1–10. <https://doi.org/10.1186/S40677-022-00219-0/TABLES/1>
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24. Kamal, A. S. M., Sifa, S. F., Islam, S. M., Rafsan, M. A., Alve, M. I. H., Mahmud, T., Hossain, M. S., & Rahman, M. Z. (2021). Climate Change Vulnerability Assessment of Patuakhali

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27. Kamal, A. S. M. M., Mitu, M., Hossain, M. S., Rahman, M. M., & Rahman, M. Z. (2021). Seismic Hazard Analysis for the South-Central Coastal Region of Bangladesh Considering the Worst-Case Scenario. *Pure and Applied Geophysics*, 178(8), 2821–2838. <https://doi.org/10.1007/S00024-021-02770-7/TABLES/7>
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