



<u>List of Published Articles</u>	
Year	Description
2023	<p>Saha, A., Roy, D.K., Khan, R., Ornee, T.I., Goswami, S., Idris, A.M., Biswas, P.K. and Tamim, U., 2023. Provenance, weathering, climate and tectonic setting of Padma River sediments, Bangladesh: A geochemical approach. <i>CATENA</i>, 233, p.107485.</p> <p>Hossain, M.S., Yasir, M., Shahriar, M.S., Jahan, M., Liu, S. and Niang, A.J., 2023. Morphological change assessment of a coastal island in SE Bangladesh reveal high accumulation rates. <i>Regional Studies in Marine Science</i>, 62, p.102969.</p> <p>Islam, M. K., Somerville, M., Pownceby, M. I., Tardio, J., Haque, N., & Bhargava, S. (2023). Department of Metals from E-Waste PCBs towards Alloy and Slag Phases during Smelting Using CaO-Al₂O₃-SiO₂-B₂O₃ Slags. <i>Minerals</i>, 13(6), 727.</p> <p>Rana, M.S., Shahriar, M.S., Alam, M.S., Hossain, M.IS., Biswas, P.K., Zaman, M.N., 2023. Evaluation of Foundry Properties of Brahmaputra River Sand and its Prospects. <i>Archives of Foundry Engineering</i>, DOI: 10.24425/afe.2023.144299</p> <p>Xiao, L., Zhang, C., Li, X., Pervez, M.N., Zhang, Y., Nuruzzaman, M., Mondal, M.I.H., Cai, Y. and Naddeo, V., 2022. Adsorption behaviour of reactive blue 194 on raw Ramie Yarn in palm oil and water media. <i>Materials</i>, 15(21), p.7818. (DOI: https://doi.org/10.3390/ma15217818)</p> <p>Hasan, A. B., Reza, A. S., Siddique, M. A. B., Akbor, M. A., Nahar, A., Hasan, M., ... & Moniruzzaman, M. (2023). Spatial distribution, water quality, human health risk assessment, and origin of heavy metals in groundwater and seawater around the ship-breaking area of Bangladesh. <i>Environmental Science and Pollution Research</i>, 30(6), 16210-16235.</p> <p>Mamun, M.Z.U.A., Hossain, M.S., Moullick, S.P., Begum, M., Sathee, R.A., Hossen, M.S., Jahan, F., Rashid, M.M., Islam, F., Bhuiyan, R.H., Alam, M.S., 2023. Nano-crystallite bones of <i>Oreochromis niloticus</i> and <i>Katsuwonus pelamis</i> for the photocatalytic degradation of Congo red dye. <i>Heliyon</i>, Volume 9, Issue 7, 2023, e18012, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2023.e18012.</p>



2022	<p>Hasan, M., Rahman, M., Islam, M. A., Hossain, M. I. S., Kanak, K., & Azam, O. R. (2022). Assessment of Toxic Heavy Metals in Surface Water of the Meghna River Estuary: An Integrated Statistical Approach. <i>The Dhaka University Journal of Earth and Environmental Sciences</i>, June, 143–155. https://doi.org/10.3329/dujees.v10i3.59080</p> <p>Md. Imam Sohel Hossain, Md. Shohel Rana, Nahid Jahan and Md. Bodruddoza Mia. Big data analysis using cloud based application for flood management. BCSIR Congress-2022, December 01-03, Dhaka, Bangladesh, pp.146.</p> <p>Md. Imam Sohel Hossain, A.S.M. Woobaidullah, Md. Sha Alam, Pradip Kumar Biswas, Md. Shohel Rana, Mst Sanjida Sultana, Mohammad Nazim Zaman. Subsidence Analysis and Risk Assessment of Barapukuria Coal Mine Integrating Satellite Imagery and Electrical Resistivity Method. International Conference on Environmental Protection for Sustainable Development, 2022 September 2–4, Dhaka, Bangladesh, pp.365.</p> <p>Rahman, M. A., Davey, K. J., Heyes, G. W., Bruckard, W. J., Sparrow, G. J., Pownceby, M. I., ... & Zaman, M. N. (2022). Upgrading a Brahmaputra River sand from northern Bangladesh by flotation to produce a high-grade silica glass sand concentrate. <i>Mineral Processing and Extractive Metallurgy</i>, 131(4), 330-344.</p> <p>Hasan, A. M., Hossain, I., Rahman, M. A., Pownceby, M. I., Biswas, P. K., & Zaman, M. N. (2022). Signature of Himalayan orogenic features in Brahmaputra River sediments, Bangladesh: Evidence from single-grain heavy mineral chemistry. <i>Geochemistry</i>, 82(3), 125897.</p>
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2022	<p>Islam, M. K., Pownceby, M. I., Somerville, M., Tardio, J., Haque, N., & Bhargava, S. (2022). Effect of B₂O₃ on the Liquidus Temperature and Phase Equilibria in the CaO–Al₂O₃–SiO₂–B₂O₃ Slag System, Relevant to the Smelting of E-waste. <i>Journal of Sustainable Metallurgy</i>, 8: 1590–1605.</p> <p>Molla, M.R., Begum, M.H.A., Farhad S.F.U., Rahman A.S.M.A., Tanvir N.I., Shahriar, B.M., Hossen, B.R., Alam, M.S., Sajjad, H.M. and Rahman M.T., 2022. Facile extraction and characterization of calcium hydroxide from paper mill waste sludge of Bangladesh. <i>R. Soc. open sci.</i> 9220681220681. http://doi.org/10.1098/rsos.220681</p> <p>Md. Shohel Rana, Tamanna Tasnim, Hossain Md. Sayem and Md. Emdadul Haque, 'Experimental study of 1-D Oedometer consolidation on some red clay soils of Pleistocene Barind Tract from Northern Bangladesh', <i>Innovative Infrastructure Solutions</i>, (ESCI, SCImago & Scopus Index Q2 Journal, IF: 2.877), DOI: https://doi.org/10.1007/s41062-022-00938-1</p> <p>Rahman, M., Das, R. S., Khan, M. S. I., Hossain, M. I. S., Faruque, M. E., Khan, N. S., & Siddique, M. A. M. (2022). Textural characteristics of surficial sediments along the Noakhali coast, Bangladesh: An implication for mineral placer deposits exploration. <i>Regional Studies in Marine Science</i>, 52, 102304. https://doi.org/10.1016/J.RSMA.2022.102304</p> <p>Rahman, M., Saima, J., Rima, S. A., Hossain, M. I. S., Das, D. K., Bakar, M. A., & Siddique, M. A. M. (2022). Ecological risks of heavy metals on surficial sediment of Nijhum Dweep (Island), an important biodiversity area of Bangladesh. <i>Marine Pollution Bulletin</i>, 179 (April), 113688. https://doi.org/10.1016/j.marpolbul.2022.113688</p> <p>Rahman, M., Khan, M. S. I., Hossain, M. S., Hossain, M. I. S., Hasan, M., Hamli, H., & Mustafa, M. G. (2022). Groundwater Contamination and Health Risk Evaluation of Naturally Occurring Potential Toxic Metals of Hatiya Island, Bangladesh. <i>Journal of Ecological Engineering</i>, 23(6), 223–236. https://doi.org/10.12911/22998993/148192</p>
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<p>2022</p>	<p>Ameen, S.M., Wilde, S.A., Hossain, M.S., Das, S.C., Tapu, A.T., Zaman, M.N. and Sarma, D.S., 2022. Episodic Proterozoic magmatism in Northwest Bangladesh: Implications for Columbia/Nuna and Rodinia reconstructions. <i>Lithos</i>, 412, p.106586.</p> <p>Sultana, M. and Ahmed, A.N., 2022. Study on Sugarcane Bagasse Ash–Clay Mixture Properties to Develop Red Ceramic Materials. <i>Sugar Tech</i>, pp.1-8.</p> <p>Sarker, S.K., Sultana, S., Haque, N., Hughes, A.E., Bruckard, W. and Pramanik, B.K., 2022. Rare earth elements recovery from secondary sources.</p> <p>Akon, E., Kabir, M.Z. and Zaman, M.N., 2022. Placer deposits of Bangladesh and their potential commercialisation. In <i>Bangladesh Geosciences and Resources Potential</i> (pp. 279-315). CRC Press.</p> <p>Hasan, A.M., Hossain, I., Rahman, M.A., Zaman, M.N., Biswas, P.K. and Alam, M.S., 2022. Chemistry and mineralogy of Zr-and Ti-rich minerals sourced from Cox’s Bazar beach placer deposits, Bangladesh: Implication of resources processing and evaluation. <i>Ore Geology Reviews</i>, 141, p.104687.</p> <p>Zaman, M.N., Biswas, P.K., Rahman, M.A., Hasan, A.M. and Akon, E., 2022. River-borne sediments of Bangladesh and their economic importance. In <i>Bangladesh Geosciences and Resources Potential</i> (pp. 437-465). CRC Press.</p> <p>Hasan, A.M., Hossain, I., Rahman, M.A., Zaman, M.N., Biswas, P.K. and Alam, M.S., 2022. Chemistry and mineralogy of Zr-and Ti-rich minerals sourced from Cox’s Bazar beach placer deposits, Bangladesh: Implication of resources processing and evaluation. <i>Ore Geology Reviews</i>, 141, p.104687. DOI: 10.1016/j.oregeorev.2021.104687</p> <p>Islam, M.K., Haque, N., Somerville, M., Pownceby, M.I., Bhargava, S. and Tardio, J., 2022. Estimation of the Generation and Value Recovery from E-waste Printed Circuit Boards: Bangladesh Case Study. In: Lazou A., Daehn K., Fleuriault C., Göknelma M., Olivetti E., Meskers C. (eds) <i>REWAS: Developing Tomorrow’s Technical Cycles</i> (Volume I). The Minerals, Metals & Materials Series. Springer, Cham. https://doi.org/10.1007/978-3-030-92563-5_11</p>
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2021	<p>Rahman, A., Pownceby, M.I., Tardio, J., Sparrow, G.J., Haque, N. and Hasan, F., 2021. Distribution, Separation and Characterization of Valuable Heavy Minerals from the Brahmaputra River Basin, Kurigram District, Bangladesh. <i>MDPI (Minerals)</i>, 11, pp.786 https://doi.org/10.3390/min11070786</p> <p>Hossain, M.I.S., Woobaidullah, A.S.M. and Rahman, M.J., 2021. Reservoir characterization and identification of new prospect in Sriakail gas field using wireline and seismic data. <i>Journal of Petroleum Exploration and Production Technology</i>, 11, pp.2481–2495. https://doi.org/10.1007/s13202-021-01217-y101</p> <p>Sultana, S., Ahsan, S., Tanvir, S., Haque, N., Alam, F. and Yellishetty, M., 2021. Coal Fly Ash Utilisation and Environmental Impact, In Clean Coal Technologies, Springer Book Series, https://doi.org/10.1007/978-3-030-68502-7_15</p> <p>Islam, M.K., Somerville, M., Pownceby, M.I., Tardio, J., Haque, N. and Bhargava, S., 2021. Experimental Determination of Liquidus Temperature and Phase Equilibria of the CaO–Al₂O₃–SiO₂–Na₂O Slag System Relevant to E-Waste Smelting. In Rare Metal Technology, Springer, Cham. pp. 265-276.</p> <p>Islam, M.K., Haque, N. and Somerville, M.A., 2021. Characterisation and Techno-Economics of a Process to Recover Value from E-waste Materials. In TMS 2021 150th Annual Meeting & Exhibition Supplemental Proceedings, Springer, Cham. pp. 995-1006.</p> <p>Islam, M.K., Somerville, M., Pownceby, M.I., Tardio, J., Haque, N. and Bhargava, S., 2021. Phase Equilibria Study of CaO-Al₂O₃-SiO₂-Na₂O Slags for Smelting Waste Printed Circuit Boards. <i>The Journal of the Minerals, Metals & Materials Society</i>, 73(6), pp.1889-1898. https://doi.org/10.1007/s11837-021-04683-1</p> <p>Rahman, M., Zaman, M.N. and Biswas, P.K., 2021. Optimization of significant morphometric parameters and sub-watershed prioritization using PCA and PCA-WSM for soil conservation: a case study in Dharla River watershed, Bangladesh. <i>Modeling Earth Systems and Environment</i>, pp.1-14. https://doi.org/10.1007/s40808-021-01255-9</p> <p>Monir, M.U., Hasan, M.Y., Ahmed, M.T., Abd Aziz, A., Hossain, M.A., Woobaidullah, A.S.M., Biswas, P.K. and Haque, M.N., 2021. Optimization of fuel properties in two different peat reserve areas using surface response methodology and square regression analysis. <i>Biomass Conversion and Biorefinery</i>, pp.1-21. https://doi.org/10.1007/s13399-021-01656-x</p> <p>Islam, M.S., Shijan, M.H.H., Saif, M.S., Biswas, P.K. and Faruk, M.O., 2021. Petrophysical and petrographic characteristics of Barail Sandstone of the Surma Basin, Bangladesh. <i>Journal of Petroleum Exploration and</i></p>
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2020	<p>Biswas, P.K., Alam, M.S., Hasan, A.S.M.M., Ahmed, S.S. and Zaman, M.N., 2020. Geochemical signature of recent bar deposits in the Tista river, Bangladesh: Implications to provenance, paleoweathering and tectonics. <i>Journal of Nepal Geological Society</i>, 60, pp.1-20. https://doi.org/10.3126/jngs.v60i0.31272</p> <p>Rahman, M.A., Das, S.C., Pownceby, M.I., Tardio, J., Alam, M.S. and Zaman, M.N., 2020. Geochemistry of Recent Brahmaputra River Sediments: Provenance, Tectonics, Source Area Weathering and Depositional Environment. <i>Minerals</i>, 10(9), pp.813. https://doi.org/10.3390/min10090813</p>
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	<p>Ahmed, M.T., Hasan, M.Y., Monir, M.U., Samad, M.A., Rahman, M.M., Rifat, M.S.I., Islam, M.N., Khan, A.A., Biswas, P.K. and Jamil, A.N., 2020. Evaluation of hydrochemical properties and groundwater suitability for irrigation uses in southwestern zones of Jashore, Bangladesh. <i>Groundwater for Sustainable Development</i>, 11, pp.100441. https://doi.org/10.1016/j.gsd.2020.100441</p>
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2019	<p>Ali, S., Alam, M.S., Ahmed, S.S., Zaman, M.N., Hossain, I. and Biswas, P.K., 2019. Geochemical characteristics of Recent sediments of channel bar of the Ganges (Padma) River, Bangladesh. <i>Bangladesh Geoscience Journal</i>, 25, pp.23-46.s</p> <p>Tanjil, H.A., Akter, S., Ahmed, M.T. and Biswas, P.K., 2019. Water Quality Assessment in Maddhapara Granite Mine, Bangladesh. <i>International Journal of Environmental Protection and Policy</i>, 7(2), pp.39-45. https://10.11648/j.ijep.20190702.11</p>
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2018	<p>Biswas, P.K., Ahmed, S.S., Pownceby, M.I., Haque, N., Alam, S., Zaman, M.N. and Rahman, M.A. 2018. Heavy mineral resource potential of Tista River sands, Northern Bangladesh. <i>Applied Earth Science: Transactions of the Institutions of Mining and Metallurgy</i>, 127(3), pp.94-105. https://doi.org/10.1080/25726838.2018.1488357</p>
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2017	<p>Ahmed, A.N., Khan, M.A.A., Saha, M.S. and Sultana, S., 2017. Characterization of coal spoil recovered from coal mine drainage water. <i>Journal of Geoscience and Environment Protection</i>, 5, pp.227-236.</p>
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	Sultana, S., Ahmed, A.N., Sultana, S., Biswas, P.K., Saha, B. and Alam, S. 2017. Assessment on Water Quality of Waste Water in Sugar Industry and Its Impact on Environment, <i>Open Access Library Journal</i> , 4, no. 3.
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2016	Khan, M.A.A., Saha, M.S., Sultana, S. and Ahmed, S.N., 2016. Preparation and characterization of white carbon black from rice husk. <i>Journal of Environmental and Natural Resources</i> , 9(2), pp.1-7.
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	Sultana, S., Biswas, P.K., Rahman, M.A., Sultana, M.S. and Zaman, M.N., 2016. Risk factor Assessment of coal mine drainage water on surrounding agricultural Soil: a case study at Barapukuria in Bangladesh. <i>Journal of Geoscience and Environment Protection</i> , 4, pp.7-17.
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