



<u>List of Published Articles</u>	
Year	Description
2022	<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., Fleuriaux C., Göknelma M., Olivetti E., Meskers C. (eds) <i>REWAS: Developing Tomorrow’s Technical Cycles (Volume I)</i>. The Minerals, Metals & Materials Series. Springer, Cham. https://doi.org/10.1007/978-3-030-92563-5_11</p>



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 Srikail 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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	<p><i>Production Technology</i>, pp.1-13. https://doi.org/10.1007/s13202-021-01196-0</p> <p>Hossain, M.S., Aziz, M.T., Shahriar, M.S. and Ritu, A.A., 2021. Heavy mineral analysis of Jamuna River sediments, Bangladesh. <i>Journal of Geological Society of India</i>, 97(5), pp.470-480. https://doi.org/10.1007/s12594-021-1713-3</p> <p>Ahmed, A.N., Sultana, M.S., Zaman, M.N. and Rahman, M.A., 2021. Influence of hard rock dust on the physical and microstructural properties of red ceramic materials. <i>Journal of Korean Ceramic Society</i>, 58, pp.69–76. https://doi.org/10.1007/s43207-020-00085-2</p> <p>Islam, M.S., Ullah, S.M.M., Jolly, Y.N., Islam, M.A. and Biswas, P.K., 2021. Petrological, geochemical, and microfacies analysis of the Sylhet limestone, Bengal Basin, Bangladesh: implication for depositional environment and diagenesis. <i>Arabian Journal of Geosciences</i>, 14(14), pp.1-22. https://doi.org/10.1007/s12517-020-06308-4</p> <p>Rahman, M.M., Hasan, M.F., Hasan, A.S.M.M., Alam, M.S., Biswas, P.K. and Zaman, M.N., 2021. Chemical weathering, provenance, and tectonic setting inferred from recently deposited sediments of Dharla River, Bangladesh. <i>Journal of Sedimentary Environment</i>, 6, 73–91. https://doi.org/10.1007/s43217-020-00046-z</p>
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> <p>Rahman, A., Tardio, J., Bhargava, S.K., Zaman, M.N., Hasan, A.M., Torpy, A. and Pownceby, M.I., 2020. Comparison of the chemistry and mineralogy of ilmenite concentrates sourced from fluvial (Brahmaputra River) and beach placer (Cox’s Bazar) deposits, Bangladesh. <i>Ore Geology Reviews</i>, 117, pp.103271. https://doi.org/10.1016/j.oregeorev.2019.103271</p> <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> <p>Shahriar, M.S., Ameen, S.M.M., Hossain, M.S., Hossain, M.S., Zaman, M.N. and Alam, M.S., 2020. Revealing the basement in Barapukuria: A</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>
	<p>Rahman, M.S., Hossain, I., Biswas, P.K., Rahim, M.A., Hasan, A. S. M.M. and Adham, M.I., 2019. Geochemistry of subsurface Late Quaternary ironstones in Rajshahi and Bogra Districts, Bangladesh: implications for genetic and depositional conditions. <i>Acta Geochimica</i>, 38, pp.404-413. https://doi.org/10.1007/s11631-018-00310-0</p>
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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	<p>Sultana, M.S., Zaman, M.N., Md. Rahman, M.A., Biswas, P.K. and Nandy, P.K., 2018. Mineralogical and Physical Characterization of Clay of Sitakunda Anticline: Used for ceramic Industries. <i>Journal of Minerals and Materials Characterization and Engineering</i>, 6(3), pp.333-344.</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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	<p>methanogens in Barapukuria coal mine gas reservoir and aquifer. <i>Fuel</i>, 210, pp.121-132. https://doi.org/10.1016/j.fuel.2017.06.063</p> <p>Biswas, P.K., Uddin, N., Alam, S., Sakib, T.U., Sultana, S. and Ahmed, T., 2017. Evaluation of Heavy Metal Pollution Indices in Irrigation and Drinking Water Systems of Barapukuria Coal Mine Area, Bangladesh. <i>American Journal of Water Resources</i>, 5(5), pp.146-151.</p> <p>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.</p> <p>Rahman, M.A., Zaman, M.N., Biswas, P.K. and Sultana, M.S., 2017. Economic Viability of the Tista River Sand Deposits in Bangladesh - An Overview. <i>Journal of Scientific Research</i>, 9(2), pp.219-233.</p> <p>Islam, M.S., Alam, M.M. and Biswas, P.K., 2017. Petrography and geochemical analysis of Fenchuganj Well-2, Sylhet, Bangladesh. <i>SUST Journal of Science and Technology</i>, 27(1), pp.59-70.</p> <p>Sakib, T.U. and Sultana, M.S., 2017. Assessment of Heavy Metals Contamination of Agricultural Field around Brick Kilns in Joypurhat District, Bangladesh. <i>International Journal of Science and Engineering Investigations</i>, 6(70), pp.98-105.</p>
2016	<p>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.</p> <p>Majumder, R.K., Khalil, M.I., Karmaker, S., Khan, R., Das, S., Rahman, M.A. and Zaman, M.N., 2016. Uranium Potentiality of sandstones collected from north-eastern part of Bangladesh. <i>Journal of East China University of Technology</i>, 39, pp.25-31.</p> <p>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.</p> <p>Ahamed, S., Monir, M.U., Biswas, P.K. and Khan, A.A., 2016. Investigation the Risk of Spontaneous Combustion in Barapukuria Coal Mine, Dinajpur, Bangladesh. <i>Journal of Geoscience and Environment Protection</i>, 4, pp.74-79. http://dx.doi.org/10.4236/gep.2016.44010</p> <p>Rahman, M.A., Pownceby, M.I., Haque, N., Bruckard, W.J. and Zaman, M.N., 2016. Valuable Heavy Minerals from the Brahmaputra River Sands of Northern Bangladesh. <i>Applied Earth Science: Transactions of the Institutions of Mining and Metallurgy</i>, 125(3), pp.174-188. https://doi.org/10.1080/03717453.2015.1115159</p>
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	<p>Halim, M.A., Majumder, R.K. and Zaman, M.N., 2014. Paddy soil heavy metal contamination and uptake in rice plants from the adjacent area of Barapukuria coal mine, northwest Bangladesh. <i>Arabian Journal of Geosciences</i>, 8(5), pp. 3391-3401. https://doi.org/10.1007/s12517-014-1480-1</p>
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2014	<p>the Brahmaputra River basin, Bangladesh, <i>Applied Earth Science: Transactions of the Institutions of Mining and Metallurgy</i>, 123(4), pp.222-233. https://10.1179/1743275814Y.0000000059</p>
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	<p>Hossain, M.A., Ahmed, A.N. and Khan, M.A.A., 2014. Vitreous Enamel Coating on Mild Steel Substrate: Characterization and Evaluation. <i>International Journal of Scientific and Engineering Research</i>, 5(2).</p>
2013	<p>Hasan, B.A., Kabir, S., Reza, A.H.M.S., Zaman, M.N., Ahsan, A. and Rashid, M., 2013. Enrichment factor and geo-accumulation index of trace metals in sediments of the ship breaking area of Sitakund Upazilla (Bhatiyar-Kumira), Chittagong, Bangladesh. <i>Journal of Geochemical Exploration</i>, 125, pp.130-137. https://doi.org/10.1016/j.gexplo.2012.12.002</p>
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	<p>Halim, M.A., Majumder, R.K., Zaman, M.N., Hossain, S., Rasul, M.G. and Sasaki, K., 2013. Mobility and impact of trace metals in Barapukuria coal mining area, Northwest, Bangladesh. <i>Arabian Journal of Geosciences</i>, 6(12), pp.4593-4605. https://doi.org/10.1007/s12517-012-0769-1</p>
	<p>Rahman, M.A., Zaman, M.N., Uddin, M.N., Biswas, P.K. and Sultana, M.S., 2013. Beneficiation of Ilmenite from Ultramafic Lamprophyre Rock, Mithapukur, Rangpur District, Bangladesh. <i>International Journal of Mining Engineering and Mineral Processing</i>, 2(1), pp.1-7.</p>
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2011	Khan, M.H. and Islam, M.N., 2011. Comparative study on the Material Selection Process for Rickshaw Frames by Weighted Property Method Using Modified Digital Logic and Analysis of Failure. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 46(4), pp.415-424.
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2010	Zaman, M.N., Miah, M.Y., Ahmed, S.S., Uddin, M.N., Alam, A.K.M.B. and Biswas, P.K., 2010. Mineralogy and geochemistry of the sub-surface Lamprophyres of Mithapukur, Rangpur District, Bangladesh. <i>Bangladesh Geoscience Journal</i> , 16, pp.39-56.
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