

## **Publication list of INARS, 2025: Total: 73**

1. Hossain, M. S., Yasmin, S., Dipannita, N. T., Hossain, M. S., Sarker, S. C., Jahan, T., ... & Kabir, M. H. (2025). Waste beverage can-derived aluminum oxide supported on graphene oxide for the effective removal of ciprofloxacin from aqueous medium. *Cleaner Chemical Engineering*, 100214.
2. Sakil, M., Kabir, M. H., Jabbar, M. A., Hossain, M. S., Kusum, A. M., Jahan, T., ... & Yasmin, S. (2025). A Hexagonal Ag/Co/rGO Nanocomposite-Based Sensor for the Electrochemical Detection of Metronidazole. *ACS Applied Nano Materials*.
3. Islam, S., Kabir, M. H., Jahan, T., Akhtar, U. S., & Yasmin, S. (2025). A novel and eco-friendly synthesis of CuO nanocubes on reduced graphene oxide using waste Li-ion batteries for nonenzymatic glucose sensing. *Sensors and Actuators A: Physical*, 393, 116791.
4. Jahan, T., Yasmin, S., Rahman, M. S., Tabassum, B. B., Lisa, S. A., Kabir, M. A., & Kabir, M. H. (2025). Occurrence and risk assessment of tetracycline residues in poultry meat of Dhaka, Bangladesh: A sensitive and reliable analytical method development approach. *Food Chemistry Advances*, 101120.
5. Pabel, M. Y., Kabir, M. H., & Yasmin, S. (2025). Graphene oxide-supported ZnCo<sub>2</sub>O<sub>4</sub> derived from ZnC battery for enhanced electrocatalytic oxygen evolution. *Journal of Energy Storage*, 119, 116314.
6. Manjur, O. H. B., Shaikh, M. A. A., Islam, S. R., Naim, M. R., Karmakar, D., Yasmin, S., ... & Kabir, M. H. (2025). Occurrence of pesticide residues in dried fish collected from the local markets of Bangladesh using modified QuEChERS method coupled with LC-MS/MS. *Food and Humanity*, 4, 100499.
7. Kabir, M. H., Miah, M. J., Mohiuddin, A. K., Hossain, M. S., Upoma, B. P., Shaikh, M. A. A., ... & Yasmin, S. (2025). Highly Effective Removal of Moxifloxacin from Aqueous Solutions Using Graphene Oxide Functionalized with Sodium Dodecyl Sulfate. *ACS Sustainable Resource Management*, 2(2), 256-266.
8. Datta, S., Kabir, M. H., Rahman, M. S., Pabel, M. Y., Jahan, T., Sharmin, T., & Yasmin, S. (2025). Sustainable incorporation of waste toner derived Fe<sub>3</sub>O<sub>4</sub> into reduced graphene oxide for electrochemical dopamine sensing. *RSC advances*, 15(57), 48923-48936.

9. Saha, O., Kabir, M. H., Islam, M. M., Hossain, M. S., Bashar, M. S., Pabel, M. Y., & Yasmin, S. (2025). Recycling spent dry cells into rGO/MnO<sub>2</sub> nanocomposites for advanced supercapacitor electrodes. *RSC advances*, *15*(49), 41874-41885.
10. Dipannita, N. T., Yasmin, S., Hasan, M. K., Hossain, M. S., Somapti, M. A., & Kabir, M. H. (2025). Carboxymethylcellulose functionalized magnetic graphene oxide for the efficient removal of tetracycline from aqueous media. *RSC advances*, *15*(42), 35219-35232.
11. Pabel, M. Y., Kabir, M. H., Hossain, M. S., Mojumder, F., Datta, S., Bashar, M. S., & Yasmin, S. (2025). Dopamine detection using leaf-shaped ZnO synthesized from zinc shells of recycled batteries. *Materials Advances*, *6*(7), 2243-2252.
12. Md Tanzil Ahamed Shawon, Ilnaz Fargul Chowdhury, Partha Paul, Md Salim Khan, Md Anamul Haque, Zuwu Tang, and Ajoy Kanti Mondal\*. "Lignin reinforced conductive hydrogels with antibacterial properties for flexible supercapacitor applications." *International Journal of Biological Macromolecules* (2025): 148722.
13. Ilnaz Fargul Chowdhury, Shyama Prosad Moulick, Md Al-Amin, Md Tanzil Ahamed Shawon, Sarker Kamruzzaman, Zuwu Tang, and Ajoy Kanti Mondal\*. "A sustainable approach for harnessing the synergy between lignosulfonate and hemicellulose: Towards next-generation bio-derived flexible electronics." *International Journal of Biological Macromolecules* (2025): 147985.
14. Zuwu Tang, Akash Debnath, Shiqian Li, and Ajoy Kanti Mondal\*. "Polysaccharide-based beads and water purification: A review." *International Journal of Biological Macromolecules* (2025): 145382.
15. Akash Debnath, Md Tushar Uddin, Md Khabir Hossain, Ajoy Kanti Mondal\*, and SM Asaduzzaman Sujon. "Composite Polymer From Power Plant PVC Waste and Chrome-Tanned Leather Waste: An Approach of Waste Minimization." *International Journal of Polymer Science* 2025, no. 1 (2025): 5595141.
16. Zuwu Tang, Ilnaz Fargul Chowdhury, Jinbei Yang, Shi Li, Ajoy Kanti Mondal\*, and Hui Wu. "Recent advances in tannic acid-based gels: Design, properties, and applications." *Advances in Colloid and Interface Science* (2025): 103425.

17. Jialu Song, Yehan Tao, Zhicheng Wang, Ajoy Kanti Mondal, Jian Du, Jinwen Hu, Chenglong Fu, Jie Lu, Yanna Lv, and Haisong Wang. "Rapid iron redox cycling for nanoplastic and antibiotic electro-Fenton remediation by FeCo alloy on cellulose-derived carbon." *Journal of Environmental Management* 396 (2025): 128175.
18. Sarna Khanam, Farzana Yeasmin, Ajoy Kanti Mondal, Mustafizur Rahman Naim, Abhijit Chowdhury, and Swapan Kumer Ray. "Redox-driven ultrafast synthesis of lignin-based hydrogel: Optimization, characterization and prospects for slow NPK-fertilizer release under varied environmental conditions." *Industrial Crops and Products* 237 (2025): 122199.
19. Hui Zhao, Weiguang Zhao, Heyue Zhu, Meizhen Jiao, Yehan Tao, Yanna Lv, Jinwen Hu, Jian Du, Haisong Wang, Ajoy Kanti Mondal, Chenglong Fu, Liangliang Bai, Jie Lu. "High-efficiency fractionation and enzymatic saccharification of poplar wood through biphasic pretreatment with tartaric acid and benzyl alcohol." *Renewable Energy* (2025): 124628.
20. Md Ashraful Alam, Md Mocarom Hossain, Ajoy Kanti Mondal, Shashanka Shekhar Sarker, Khandoker Tahmina Tasnim, Md Sefiatulla Ridoy, Shahin Aziz, and Md Tushar Uddin. "Epoxidized rubber seed oil: A modified tanning material for chamois leather." *Industrial Crops and Products* 234 (2025): 121564.
21. Han Han, Guangying Huang, Xilai Yan, Shibo Han, Jie Xie, Hongshen He, Ajoy Kanti Mondal, Weijie Lin, and Fang Huang. "Preparation and properties of sulfomethylated lignin-based highly flexible polyurethane foam." *International Journal of Biological Macromolecules* (2025): 146333.
22. Xianxin Han, Yu Zhang, Binghao Zou, Hao Tong, Ajoy Kanti Mondal, Yehan Tao, Jinwen Hu, Jian Du, Chenglong Fu, and Haisong Wang. "Hydrophilic bamboo powder-reinforced cellulose composite foams with tailored hydrogen bonding network for structural cushioning applications." *Sustainable Materials and Technologies* (2025): e01690.
23. Hongshen He, Guangying Huang, Xilai Yan, Han Han, Jie Xie, Shibo Han, Ajoy Kanti Mondal, Qingxian Miao, and Fang Huang. "Synergistic optimization of polypyrrole/mulberry paper-based composite electrode by carbon black and multi-walled carbon nanotubes for high-performance flexible all-solid-state supercapacitors." *Journal of Energy Storage* 120 (2025): 116475.

24. Md Rabiul Islam, Sapan Kumar Sen, M. S. Manir, Arup Kumar, Zannath Ara, Pronabananda Das, Ajoy Kanti Mondal, Arifatun Nahar, AKM Moshiul Alam, and Md Abdun Nur. "Effects of gamma irradiation on phytochemically synthesized CuO nanoparticles using *Mussaenda frondosa* leaves and their X-ray crystallographic analysis." *Journal of Radiation Research and Applied Sciences* 18(2) (2025): 101458.
25. Jianping Shi, Xinyuan Zhang, Yingchao Wang, Yiku Liu, Shengyue Niu, Ajoy Kanti Mondal, Hui Zhang, Jianguo Li, and Lihui Chen. "Robust nanofluidic membrane: Charged cellulose tandem angstrom/nanochanneled ZIF-8." *Chemical Engineering Journal* (2025): 160447.
26. Shibo Han, Guangying Huang, Han Han, Xilai Yan, Jie Xie, Hongshen He, Ajoy Kanti Mondal, Weijie Lin, and Fang Huang. "Study on the preparation and properties of lignin-based flexible polyurethane foams with NaCl as a medium." *International Journal of Biological Macromolecules* (2025): 140370.
27. Zerín, T., Ahmed, S., Badhan, R. A., Mostafa, S., Keya, A. S., Saqif, A. T., & Nesa, T. R. (2025). CHARACTERIZATION OF AMYLASE-PRODUCING BACILLUS SPECIES AND INSIGHT INTO ITS AMYLASE ACTIVITY. *Journal of microbiology, biotechnology and food sciences*, e10694-e10694.
28. Jhumur, N. T., Ahmed, S., & Haque, I. (2025). Synthesis and characterization of novel {N<sup>2</sup>-(fluoro/chloro/nitro) benzylidene}-3-(decyloxy) benzoylhydrazide nickel (II) complexes and mesogenic property. *Molecular Crystals and Liquid Crystals*, 769(5), 510-523.
30. Shandhi, S. P., Sikdar, K., Ahmed, S., Khatun, M. M., & Nahar, A. (2025). GC–MS spectroscopic analysis of antimicrobial and antioxidant properties of bangladeshi spice piper chaba H. stems: a potential natural preservative for food. *Food Chemistry Advances*, 9, 101127.
31. Islam, M. S. M. M., Siddik, M. N. A., Islam, M. A., Trisha, S. A., Alam, M., Ali, M. H., ... & Saha, B. K. (2025). Polyaromatic hydrocarbons and trace metals in road-deposited soil, source apportionment, and risk analysis: evidence from the largest port city of Bangladesh. *Environmental Geochemistry and Health*, 47(10), 446.
32. Mahmud, Y., Sarker, S. S., Hossain, M. M., Ahmed, S., Hossain, M. K., Azad, M. A. K., & Razzaq, M. A. (2025). Low salt skin preservation with *Gossypium hirsutum* seed—a cleaner

approach. *JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION*, VOL. 120, 2025,345-356.

33. Akther, S., Islam, S., Rahman, M.S., Simol, H.A., Jamal, A.S.I.M., Islam, D. and Bakshi, P.K., 2025. Synthesis, characterization and biological activities of tolfenamic acid alkaline earth metal complexes. *Applied Organometallic Chemistry*, 39(1), p.e7779

34. Saha, P., Shristy, N. T., Nahar, A., Arefin, P., Moniruzzaman, M., Jamal, A. S. I. M., ... & Akbor, M. A. (2025). Assessment of caffeine, trace metals, and associated health risks in popular carbonated and energy drinks in Bangladesh using advanced analytical techniques. *Journal of Food Composition and Analysis*, 108344.

35. Faruk, M. O., Arafat, S., Hossain, M. K., Al Mansur, M. A., Rashid, M. A., & Rahman, M. S. (2025). Antioxidant and Anticancer Potentials of Some Pyrazole and Pyrimidine Derivatives of 1, 3-Diphenylprop-2-en-1-one. *Bangladesh Pharmaceutical Journal*, 28(2), 142-151.

36. Haque, M. R., Ahmed, W., Haque, A., Rayhan, M. R. I., Moniruzzaman, M., Akbor, M. A., ... & Rahman, M. M. (2025). Unveiling the hidden threat: A multi-faceted assessment of heavy metal contamination in indoor dust along with ecological risk and human health implications. *Journal of Hazardous Materials Advances*, 18, 100644.

37. Ashraphy, F., Hasan, M., Alam, M. A., Akbor, M. A., Quddus, M. S., & Kamruzzaman, S. (2025). Efficient removal of Pb<sup>2+</sup> from wastewater using chemically activated bone biochar: Preparation, characterization and mechanistic insights. *Desalination and Water Treatment*, 101409.

38. Tasneem, A., Akbor, M. A., & Rahman, M. M. (2025). Assessment of bisphenol A analogues in water and sediment of an urban river system in Dhaka, Bangladesh: a regionally focused environmental investigation. *RSC advances*, 15(46), 38646-38658.

39. Shristy, N. T., Chowdhury, N. J., Nahar, A., Saha, P., Jamal, A. S. I. M., Hasan, M., ... & Akbor, M. A. (2025). Occurrence, Formation, and Human Health Risk Assessment of Trihalomethanes in Source, Treated, and Supply Water of Dhaka, Bangladesh. *Desalination and Water Treatment*, 101617.

40. Tasneem, A., Akbor, M. A., Shristy, N. T., Hasan, N., & Rahman, M. M. (2025). Occurrence, seasonal variation, and spatial distribution of bisphenol analogues (BPs) in surface

water and sediment from the Sitalakhya River, Dhaka, Bangladesh. *Environmental Monitoring and Assessment*, 198(1), 51.

41. Hossain, M. S., Ferdushy, T., Klanti, M. M., Bithi, U. H., Akbor, M. A., Akter, S., ... & Siddique, M. A. B. (2025). Spatio-temporal variations of tanning industries induced river water quality in a developing country: entropy-based water quality, pollution source tracing, and health risk appraisals. *Urban Water Journal*, 1-26.

42. Azad, A. R., Karim, M. R., Rakib, M. R. J., & Uddin, M. R. (2025). Assessment of heavy metal pollution and spatial distribution in waterfalls of Chattogram District, Bangladesh: Implications for drinking and irrigation purposes. *Environmental Advances*, 19, 100613.

43. Jhumur, N. T., Jamal, A. S. I. M., Tasnim, A., Uddin, M. R., Hasan, M., Ahmed, S., & Shawon, M. T. A. (2025). Assessment of Heavy Metal Accumulation in the Coastal Region of Southwestern Bangladesh: Implications for Soil, Vegetation, and Human Health. *Journal of Food Composition and Analysis*, 107791.

44. Yasmine, S., Proma, R. Z., Uddin, M. R., Rahman, M. S., Islam, M. H., Al Mansur, M. A., ... & Siddiqi, M. M. A. (2025). Exploring the multifaceted roles of *Sonneratia apetala* and *Nipa fruticans* in coastal habitat restoration and bioactive properties discovery. *Phytomedicine Plus*, 5(1), 100687.

45. Akhter, F., Uddin, M. R., Al Mansur, M. A., Rahman, M. S., Akbor, M. A., Akter, N., ... & Kamruzzaman, S. (2025). Antidiarrheal, analgesic, antidepressant, antimicrobial and hypoglycemic activities of methanolic extract from *Sonneratia apetala* fruit, with identification of bioactive compounds in n-hexane, chloroform, and ethyl acetate fractions. *PLoS One*, 20(5), e0321280.

46. Islam, M. J., Rahman, M. A., Jahan, N., Mostafa, M. G., Akter, B., & Uddin, M. R. (2025). Isolation, structural characterization and molecular docking of  $\beta$ -sitosterol from *Trewia polycarpa* root bark: a potential source of bioactive compounds. *Discover Chemistry*, 2(1), 1-17.

47. Mostafa, M. G., Rahman, M. A., Biswas, P. K., Islam, A. R. M. T., Uddin, M. R., Hossen, M. N., ... & Rana, M. S. (2025). Mineralogy and provenance of red clay soils in Barind and Madhupur clay formations, Bangladesh: Implications for tectonic setting and chemical weathering. *Journal of Asian Earth Sciences: X*, 14, 100200.

48. Hayatullah, Mostafa, M. G., Rahman, M. A., Hossen, M. N., Lipy, E. P., Uddin, M. R., ... & Rahman, M. S. (2025). Toxicological Safety, Antimicrobial Efficacy, and Sensory Evaluation of River Sand-Derived Mica From Bangladesh: A Comprehensive Assessment for Cosmetic Applications. *Journal of Cosmetic Dermatology*, 24(9), e70448.
49. Bhuiyan, R. H., Rahman, M. S., Ali, M. E., Mostafa, M. G., Bhuiyan, M. M. R., Bhuyan, M. Z. H., & Uddin, M. R. (2025). Seasonal variation, spatial distribution, and health risk assessment of trace elements in a major canal of Chittagong, Bangladesh: Implications for irrigation suitability. *Regional Studies in Marine Science*, 104431.
50. Mostafa, M. G., Biswas, P. K., Rahman, M. A., Rana, M. S., Alam, M. S., Nuruzzaman, M., ... & Ahmed, F. (2025). Physico-chemical and thermal behavior of Barind red clay from Naogaon, Bangladesh: Implications for ceramic industries as a raw material. *Next Materials*, 9, 101080.
51. Alam, O., Li, J., Uddin, M. R., Zheng, X., Hosen, S., Tanvir, N. I., ... & Zhao, X. (2025). Unraveling the relations between heavy metals and microplastics transport and accumulation in the coastal environment. *Process Safety and Environmental Protection*, 107675.
52. Islam, M. J., Hayatullah, Rahman, M. A., Jahan, N., Mostafa, M. G., Akter, B., & Uddin, M. R. (2025). Isolation, structural characterization and molecular docking of  $\beta$ -sitosterol from *Trewia polycarpa* root bark: a potential source of bioactive compounds. *Discover Chemistry*, 2(1), 156.
53. Takeya, L. A., Haque, K. E., Ahmed, S., Siddique, M. A. B., Moniruzzaman, M., Uddin, M. R., & Rahman, M. S. (2025). Hydrochemistry, quality, and potential health risk appraisal of arsenic-enriched groundwater in central-west Bangladesh using the integrated water quality index and Monte Carlo simulation. *Science of The Total Environment*, 1003, 180707.
54. Uddin, M. R., Mustak, M. H., Nuruzzaman, M., Ahmed, F., Tazrin, J., Rahman, M. A., ... & Idris, A. M. (2026). Optimized H<sub>3</sub>PO<sub>4</sub> activation of *Nypa fruticans* roots for high-performance activated carbon: Structural control and enhanced iodine adsorption. *Biomass and Bioenergy*, 205, 108488.
55. Jhumur, N. T., Jamal, A. S. I. M., Islam, M. H., Mukta, S. Y., Uddin, M. R., Al-Mansur, M. A., ... & Siddiqi, M. M. A. (2025). In silico investigation, phytochemical profiles and potential Biological approaches of natural products isolated from *Canarium resiniferum* bark extract. *In Silico Research in Biomedicine*, 100076.

56. Mostafa, M. G., Islam, M. S. U., Mondal, D., Adham, M. I., Rana, M. S., Hossain, M. I. S., ... & Uddin, M. R. (2025). Analysis of river dynamics and neotectonics of the Jamuna River using satellite and seismic data in Madarganj Upazila of Jamalpur District, Bangladesh. *Natural Hazards*, 121(6), 7123-7148.
57. Bhuyan, M. S., Siddique, M. A. B., Rao, D. N., Ismail, M., Uddin, M. R., Iheanacho, S., & Kunda, M. (2025). Heavy metal contamination in the sediment of seaweed culture site along the Cox's Bazar coast, Bay of Bengal, Bangladesh. *Discover Oceans*, 2(1), 59.
58. Azad, A. R., Karim, M. R., Akter, N., & Uddin, M. R. (2025). Assessment of Physicochemical Properties, Microbial Quality, and Spatial Water Quality Index Distribution in Chattogram's Waterfalls, Bangladesh. *CLEAN–Soil, Air, Water*, 53(11), e70063.
59. Rahman, M. S., Sultana, S., Biswas, P. K., Rahman, M. A., Reza, A. S., Moniruzzaman, M., ... & Ahmed, S. (2025). Monitoring and assessment of groundwater suitability for drinking and irrigation in the granary region of central-west Bangladesh using entropy index. *Journal of Trace Elements and Minerals*, 100272.
60. Rahman, M. A., Nahin, M. N. I., Mostafa, M. G., Pownceby, M. I., Hayatullah, Hossen, M. N., ... & Uddin, M. R. (2025). Extraction of Rare Earth Elements from Monazite: A Review of Current Practices and Emerging Opportunities for Bangladesh. *Mineral Processing and Extractive Metallurgy Review*, 1-17.
61. Abdullah-Al Mamun, M., Aktar, M. N., Uddin, M. N., Chowdhury, M. H., Islam, M. S., Rahman, M. S., ... & Islam, A. R. M. T. (2026). Hybrid data-driven framework for interpretable prediction of nitrate and sulfate risks in coastal aquifers. *Science of The Total Environment*, 1011, 181190.
62. Nur-E-Alam, M., Hossain, M. L., Islam, M. S., Iqbal, M. A., **Siddique, M. A. B.**, Rubaia, N. Z., & Salam, M. A. (2025). Pollution status, distribution, and risk assessment of potentially toxic elements in sediments from Bangladesh's fastest-growing coastal regions. *International Journal of Environmental Science and Technology*, 23(2), 94.
63. Rahman, M. S., Sultana, S., Biswas, P. K., Rahman, M. A., Reza, A. S., Moniruzzaman, M., **Siddique, M. A. B.**, ... & Ahmed, S. (2025). Monitoring and assessment of groundwater suitability for drinking and irrigation in the granary region of central-west Bangladesh using entropy index. *Journal of Trace Elements and Minerals*, 100272.

64. Nath, H., Adhikary, S. K., Roy, S., Akhter, S., Bithi, U. H., Salam, M. A., ... & **\*Siddique, M. A. B.** (2025). Utilizing PMF and Monte Carlo-based models to evaluate toxic metal enrichment pathways, sources, and public health risks in an unplanned urbanized dumpsite soil. *Environmental Science: Advances*.
65. Hossain, M. S., Ferdushy, T., Klanti, M. M., Bithi, U. H., Akbor, M. A., Akter, S., ... & **\*Siddique, M. A. B.** (2025). Spatio-temporal variations of tanning industries induced river water quality in a developing country: entropy-based water quality, pollution source tracing, and health risk appraisals. *Urban Water Journal*, 1-26.
66. Reza, A. H. M. S., Rahman, M. S., Shine, F. M. M., **Siddique, M. A. B.**, Rahman, M. A., Saha, S., ... & Flowra, F. A. (2025). Understanding Trace Elements Dynamics and Environmental Health: Insights from Fish Mortality in Rajshahi, Bangladesh. *Journal of Trace Elements and Minerals*, 100264.
67. Islam, A. R. M. T., Varol, M., Mallick, J., Abdullah-Al Mamun, M., Mia, M. Y., **Siddique, M. A. B.**, ... & Aktar, M. N. (2025). Tracing source footprints of heavy metal (oid) s in coastal soils using traditional statistical techniques and machine learning data-driven models. *Marine Pollution Bulletin*, 222, 118701.
68. Khan, M. M. H., Nira, S. M., Shammi, R. S., Kabir, M. H., Sarker, M. E., Sowmya, S. D., **Siddique, M. A.**, ... & Tusher, T. R. (2025). Potentially Toxic Elements (PTEs) in Sediment of the Upper Banar River, Bangladesh: Occurrence, Pollution Load, Source Apportionment, and Potential Risks. *Environmental Forensics*, 1-19.
69. Basir, M. S., Anik, A. H., **Siddique, M. A. B.**, Iqbal, Q., & Muktadir, M. G. (2025). Hydrochemical and contamination dynamics of groundwater in relocated tannery area, Dhaka, Bangladesh: Impacts of tannery relocation and preliminary health risks. *Results in Engineering*, 105512.
70. Aktar, S., Sobnam, M., Mia, M. Y., Rony, M. A. B., Islam, R., **Siddique, M. A. B.**, ... & Islam, A. R. M. T. (2025). Spatial variation of heavy metal contamination in urban water of the Shyamasundori canal, Bangladesh. *Urban Water Journal*, 22(6), 642-660.
71. Islam, M. S., Kormoker, T., Islam, A. R. M. T., Antu, U. B., Uddin, M., Kumar, S., ... & **Siddique, M. A. B.** Phytoremediation of Heavy Metals from Contaminated Sites: A Potential Review for Future Perspectives. In *Mining Impact on Soil and Water Resources* (pp. 43-76). CRC Press.
72. Aktar, S., Islam, A. R. M. T., Moniruzzaman, M., **Siddique, M. A. B.**, Al Masud, M. A., Islam, A., ... & Maallick, J. (2025). Fluoride enrichment and hydrogeochemical characteristics

in coastal multi-aquifers: Implications for public health and nutrition. *Physics and Chemistry of the Earth, Parts A/B/C*, 139, 103924.

73. Rahat, M. M. R., Rumman, R., Ferdousi, F. K., Zhao, S., **Siddique, M. A. B.**, Zhang, G., ... & Habib, A. (2025). Heavy metals in atmospheric fine particulate matter (PM<sub>2.5</sub>) in Dhaka, Bangladesh: Source apportionment and associated health risks. *Environmental Research*, 271, 121071.