ASMA SHAFIQ SHATHI

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Scientific Officer, Pharmaceutical Sciences Research Division

BCSIR Dhaka Laboratories, Bangladesh Council of Scientific and Industrial Research (BCSIR)

Dhaka, Bangladesh

Personal Profile

- Scientific Officer at Pharmaceutical Sciences Research Division, Bangladesh Council of Scientific and Industrial Research (BCSIR) since January 2023
- Completed B.S. (Honours) and M.S. in Inorganic and Analytical Chemistry from the University of Dhaka
- Previously worked in the research and development section of a renowned pharmaceutical company
- Research interests include analytical method development and validation, nano material synthesis and characterization, and their applications in pharmaceutical and environmental research

Education

Master of Science in Chemistry

Inorganic and Analytical Chemistry, University of Dhaka, Bangladesh

Bachelor of Science in Chemistry

University of Dhaka, Bangladesh

Professional Experience

Scientific Officer **January 2023 – Present**

Pharmaceutical Sciences Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh

Research Projects

Project Leader

- Green Synthesis of Iron Oxide Nanoparticles for Bioactivity & Environmental Remediation (July 2024 – June 2026)

Project Associate

- Method Development & Validation of Two INN Drugs (July 2024 – June 2026)

Professional Trainings

- Operation & Maintenance of XPS, BCSIR 12–16 January 2023
- HPLC: Principle, Application & Operation, BCSIR 5 January 2024
- Basic principle, maintenance and troubleshooting of XRD, FTIR and Raman Spectroscopy, BCSIR 21 May 2025
- Operation and Maintenance of Simultaneous Thermal Analyzer (STA), BCSIR 4–8 May 2025
- Nanoparticle Size Analyzer with Zeta potential, BCSIR 18–22 January 2026

Publications (Selected)

1. **Shathi, A. S.**, Mostafa, M. G., Nahin, M. N. I., Hossen, M. N., Jeba, F., & Salam, A. Emission profiling and UV induced variations in anthrone reactive carbohydrate content from traditional biomass sources in rural Bangladesh. *Discover Environment*, **2025**, 3(1), 273.
2. **Shathi, A. S.**, Hayatullah, M., Islam, M. M., Susan, A. B. H., Miran, M. S., Mostafa, M. G., et al. MnO_2-modified Kaolinite for Formic Acid Oxidation. *Sustainable Chemistry for Climate Action*, **2025**, 6.
3. Nuruzzaman, M., **Shathi, A. S.**, Yousuf, A., Islam, J., Rana, S., Alam, M. S., Biswas, P. K., Rahman, M. A., Mondal, M. I. H. Composite Materials from Waste Plastics. *Polymers and Polymer Composites*, **2025**, 33(2).
4. Hayatullah, M., **Shathi, A. S.**, Mostafa, M. G., Rahman, M. A., Biswas, P. K., Alam, M. S., Rana, S., Uddin, M. R., Nuruzzaman, M., Shahriar, M. S. Iron Removal from Red Clay Using Oxalic Acid Leaching. *Heliyon*, **2024**, 10(19).
5. Rahman, M. A., Hossain, M. S., Moulee, M. M., Islam, M. S., **Shathi, A. S.**, Paul, A., Abdurrahim, M. H. Use of Bi-layer Tablet Technology to Formulate a Dual-Release Dosage Form of Extended-Release Montelukast and Immediate-Release Bilastine. *Bangladesh Journal of Scientific and Industrial Research*, **2024**, 59(4).

Professional Memberships

- Member of BCSIR Scientists Association

References

- Available upon request.

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