

## Taslina Akter

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Office: Chemical Research Division, BCSIR Dhaka Laboratories  
Bangladesh Council of Scientific & Industrial Research (BCSIR)  
Dr. Qudrat-I-Khuda Road, Dhaka-1205, Bangladesh

### Education

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M. S. in Chemistry Jahangirnagar University, Savar, Bangladesh	2017
B. Sc. (Hons.) in Chemistry Jahangirnagar University, Savar, Bangladesh	2016

### Professional Experience

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#### Scientific Officer

Chemical Research Division, BCSIR Dhaka Laboratories  
Bangladesh Council of Scientific & Industrial Research (BCSIR)

May, 2022 to present

### Technical Skill and Competences

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- Synthesis, purification, and characterization of organic and inorganic compounds
- Metal complexation, chemosensors studies, liquid crystal research, synthesis and study of biologically active compounds and active pharmaceutical ingredients (APIs)
- Operation of GC-FID, GC-ECD, UV-Vis, and fluorescence spectroscopy, as well as chromatographic separation techniques
- Experimental design, reaction mechanism analysis, troubleshooting, and optimization of research workflows

## Research Grants

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- Principal investigator** Synthesis and computational studies of Aroylhydrazinato metal complex based liquid crystals (R &D -2024-2026)
- Principal investigator** Synthesis, Characterization, Biological Evaluation, Photophysical properties and DFT Studies of thiosemicarbazone based Schiff bases (MOST R &D -2025-2026)

## Publications

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- Akter R, Islam MM, Islam MW, Akter T, Paul T, Rahman MM, Uddin MT, Rahman S, Alodhayb AN, Georghiou PE. Extraction procedure and theoretical studies of chitin from black soldier fly. *Journal of Polymer Research*. 2025 Feb;32(2):48.
- Akter R, Islam MM, Islam MW, Akter T, Ali MH, Nesa F, Rahman S, Alodhayb AN, Georghiou PE. Recent Developments in the Biological Consequences of Certain Chalcone Derivatives. *ChemistrySelect*. 2025 Nov;10(41):e03482.
- Samapti MS, Ahmed S, Kishoara F, Akter T, Ahmed SF. Secondary Metabolites Isolation from Endophytic Fungi *Diaporthe Arecae* and *Colletotrichum Gloeosporioides* Isolated from *Syzygium Cumini* Linn. *Tropical Journal of Phytochemistry and Pharmaceutical Sciences*. 2025 May 8;4(4):157-61.
- synthesis, characterization and liquid crystallinity of bis[N-(3-hydroxy)benzylidene-N -(3,5-(n-alkoxy)benzoyl} hydrazinato]nickel(II) complexes, June 2021, *Journal of Bangladesh Chemical Society* 32(1&2):99-102

## Conference Presentations

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- Oral Presentation in ICSHSD Congress – 2025, DUET Campus, Gazipur, Dhaka

## Professional Memberships

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- The BCSIR Scientists Association (Biggani Songho)

## Professional Trainings

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- Training on Simultaneous Thermal Analysis (TG/DTA-DSC): Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Training on Nuclear Magnetic Resonance Spectroscopy (NMR): Techniques and Software operation, BCSIR, Dhaka, Bangladesh.

- Training on LC-MS/MS System: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Training on High Performance Liquid chromatography (HPLC): Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Training on Gas Chromatography system (GC-ECD) Techniques and Software operation, BCSIR, Dhaka, Bangladesh.

## References

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Available up on request

*Last Updated: Monday, 23 February, 2026*