

Md. Nur Alam Likhon

Scientific Officer (SO)

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Education

- **M.Sc.** in Chemistry (Thesis Group)
University of Dhaka, 2018 (Held in 2019)
- **B.Sc.** (Honours) in Chemistry
University of Dhaka, 2017 (Held in 2018)
- **Higher Secondary Certificate (H.S.C.)**, *Science Group, Dhaka Board, 2012*
- **Secondary School Certificate (S.S.C.)**, *Science Group, Dhaka Board, 2010*

Professional Information

- ❖ **Scientific Officer:** Bangladesh Council of Scientific and Industrial Research (BCSIR),
Dhanmondi, Dhaka. November 2021 – Present

Technical Skills and Competences

- **Pulping and Bleaching**
- **Pulp Characterization**
- **Papermaking**
- **Paper Testing and Evaluation**
- **Paper Coating**
- **Lignocellulosic Modifications and Applications**
- **Biorefineries**
- **Equipment Operation and Maintenance**
- **Design of Experiment**
- **Data Management and Analysis**
- **Safety Protocols**
- **Time Management and Teamwork**
- **Communication**

Computational Skills

✚ Microsoft Excel

✚ Microsoft PowerPoint

✚ Data analysis and graphing:

✚ Origin ✚ R

✚ SPSS 24

✚ STATISTICA

✚ Minitab 22

✚ Packages for Reference management:

✚ EndNote7

Research Grants

- **Project Director:** Pulping And Papermaking Properties of Zara Plant (2023-2024), BCSIR, BDT 8,00,000
- **Project Director:** Production of low viscose carboxymethyl cellulose (CMC) from Jute stick (2024-2025), Ministry of Science and Technology (MOST), BDT 90,000.
- **Project Director:** Production of Epoxy Lignin from non-wood (2024-2026), BCSIR, BDT
- **Project Associate:** Preparation of Chitosan Derivative and its Application in Papermaking (2023-2024), BCSIR, BDT2,50,000.
- **Project Associate:** Determination of Aliphatic and Phenolic Hydroxyl Groups in Lignin by Chemometric Analysis of FTIR Spectroscopic Data (2025-2026), BCSIR, BDT 1,00,000

Publications

1. Likhon, M. N. A., Rahman, M. M., Jiang, B., Jin, Y., & Jahan, M. S. (2026). Structural and Compositional Characteristics of Technical Lignin Derived From Non-Wood Biomass: Bagasse and Kash. *Advances in Polymer Technology*, 2026(1), 2203670.
2. Likhon, M. N. A., Islam, S., Rahman, M. M., Jiang, B., Jin, Y., & Jahan, M. S. (2025). Molecular and spectroscopic characterization of technical lignin from *Trema orientalis* and *Trewia nudiflora* obtained from formic acid biorefinery. *CELLULOSE CHEMISTRY AND TECHNOLOGY*, 59(5-6), 579-587.
3. Uddin, M. T., Rahman, M. M., Likhon, M. A., Akon, A. M. J. U., Sultana, M., & Jahan, M. S. (2025). Wood characteristics of 16 years old teak (*Tectona grandis*) cultivated in Kaptai, Bangladesh. *Wood Material Science & Engineering*, 1-9.
4. UDDIN, M. N., LIKHON, M. N. A., RAHMAN, M. M., JIN, Y., JIANG, B., UDDIN, M. T., & JAHAN, M. S. (2025). Determination of aliphatic and phenolic hydroxyl groups in lignin by chemometric analysis of FTIR spectroscopic data. *TAPPI JOURNAL*, 24(10).
5. Uddin, M. N., Ferdous, T., Likhon, M. N. A., Bhuiyan, R. H., Ni, Y., Rahman, M. M., & Jahan, M. S. (2025). Method for Rapid Determination of Hexeneuronic Acid in Non-Wood Pulp by Multivariate Analysis of FT-NIR Spectroscopic Data. *Journal of Applied Polymer Science*, 142(44), e57698.

6. Islam, S., Rahman, M. M., Hossen, M. N., Likhon, M., Alam, N., Jameel, H., & Jahan, M. S. (2025). Conversion of paper-grade pulp from rice straw into dissolving pulp. *TAPPI JOURNAL*, 24(6).
7. Roy, S., Rahman, M. M., Ferdous, T., Likhon, M. N. A., & Jahan, M. S. (2024). Preparation of chitosan derivative and its application in papermaking. *International Journal of Biological Macromolecules*, 256, 128371.
8. Uddin, M. N., Rahman, M. M., Likhon, M. N. A., & Jahan, M. S. (2025). Unlocking potential: the role of chemometric modeling in pulp and paper manufacturing. *Nordic Pulp & Paper Research Journal*, 40(1), 71-82.
9. Islam, S., Popy, R. S., Likhon, M. N. A., Rahman, M. M., & Jahan, M. S. (2024). Organic acid fractionation of hardwoods planted in social forestry. *Nordic Pulp & Paper Research Journal*, 39(1), 1-9.
10. Uddin, M. N., Likhon, M. N. A., Rahman, M. M., & Jahan, M. S. (2024). Effect of fibre-quality parameters on pulp properties by using multiple linear regression and artificial neural network. *International Wood Products Journal*, 15(2-4), 91-99.
11. LIKHON, M., Rahman, M. M., Nayeem, J., Popy, R. S., SARWAR, A. K. G., & Jahan, M. S. (2023). Pulping and papermaking properties of Zara plant. *CELLULOSE CHEMISTRY AND TECHNOLOGY*, 57(5-6), 557-564.

Conference Presentations

- Oral Presentations: International Conclave on Materials, Energy and Climate, Department of Applied Chemistry and Chemical Engineering, University of Dhaka, 19-20 December, 2022
- Oral Presentations: BCSIR Congress 2024
- Poster Presentations: BCSIR Congress 2023

Professional Training

- International Training Workshop on Waste Paper Utilization Technology at China National Pulp and Paper Research Institute Co., Ltd. (CNPPRI) from August 1, 2025 to August 15, 2025.
- More than 20 professional training have been obtained in different fields including Research and Development, Planning and Development, Public Procurement, Administration, Data Accusation from Scientific Instruments and Analysis, etc.

Awards

- Merit award, Foundation Training Course at National Academy for Planning Development (NAPD), Ministry of Public Administration
- Director's General (DG) Award on Sports at National Academy for Planning Development (NAPD), Ministry of Public Administration

References

Available upon request.