

Curriculum Vitae

of

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Research interest:

Sustainable Leather Processing, Green Chemistry for Leather Industry, Environmental Sustainability, Industrial Ecology, and Bioeconomy.

Professional Experience:

June 2023 to Present, working as Scientific Officer of Bangladesh Council of Scientific and Industrial Research (BCSIR), Bangladesh.

Educational Qualifications:

- 1) 2020-2022: M.Sc. in Leather Engineering, University of Dhaka, Bangladesh acquiring **GPA 3.83/4.00 (1st in Leather Engineering discipline)**
- 2) 2015-2019: B.Sc. in Leather Engineering, University of Dhaka, Bangladesh acquiring **CGPA 3.88/4.00 (2nd position)**
- 3) 2014: Higher Secondary School Certificate (H.S.C.) Exam from Dinajpur Board, Bangladesh acquiring **GPA 5.00/5.00**
- 4) 2012: Secondary School Certificate (S.S.C.) Exam from Dinajpur Board, Bangladesh acquiring **GPA 5.00/5.00**

Research grants:

1) Received grants from the **Ministry of Science and Technology, Government of the People's Republic of Bangladesh** on M.Sc. thesis titled "Reduction of salinity in tannery effluent through cleaner preservation technique of hides/ skin using native weed plant-based novel curing agent" in 2021.

Published Articles:

1. **Hossain, M. M.***; Roy, U. K. Monitoring the Curing Efficiency of a Plant-Based Green Engineered Additive on Caprine Skin: A Spectroscopic and Chemometric Novel Approach. *Heliyon* 2023, 9 (5), e16273. <https://doi.org/10.1016/j.heliyon.2023.e16273>.
2. Hossain, M. D.; Deb, A. K.; **Hossain, M. M.**; Azam, F. A. Bin; Chowdhury, M. Modification of Footwear PVC Outsoles into Graphene Oxide-Based PVC (PVC/GO)

Soling Composites for the Enhancement of Better Physical Properties. Text. Leather Rev. 2023, 6 (June), 271–283. <https://doi.org/10.31881/TLR.2023.035>.

3. **Hossain, M. M.***; Ahmed, S.; Zaman, S.; Bari, M. L.; Roy, U. K. *Polygonum hydropiper* in Goatskin Preservation: A Sustainable Leather Processing Approach. Sustain. Chem. Pharm. 2022, 29 (2022), 100770. <https://doi.org/https://doi.org/10.1016/j.scp.2022.100770>.
4. **Hossain, M. M.**; Chowdhury, M. A.; Hasan, M. J.; Rashid, M. H. A.; Acter, T.; Khan, M. N.; Mahatabuddin, S.; Uddin, N. Heavy Metal Pollution in the Soil-Vegetable System of Tannery Estate. Environ. Nanotechnology, Monit. Manag. 2021, 16 (August), 100557. <https://doi.org/10.1016/j.enmm.2021.100557>.

Preprint:

1. **M.M. Hossain**, Tuj-Zohra F, Ahmed S. Study of FTIR spectroscopy combined with Chemometrics in the characterization of vegetable tannin from *Ceriops decandra*. ChemRxiv. Cambridge: Cambridge Open Engage; Preprint, 2022; <https://doi.org/10.26434/chemrxiv-2022-z139w>.

Achievement & Award:

- 2021: **General Merit Scholarship** by the University of Dhaka.
- 2017: **Championship Award** in the **Science Article Writing Contest** by Dhaka University Science Society (DUSS), Bangladesh.
- 2016: **Championship Award** in an **Essay Competition** on **Chemical Metrology** organized by **BRICM, BCSIR**, Bangladesh.

Soft Skills:

- Good skills in Operating Systems (Windows 10, 8, 7, XP),
- Application software Microsoft Office (Word, Excel, Access, PowerPoint).
- Basic Internet application and data exchange.
- blogging
- **R programming**
- **ArcGIS**
- **Python (Data Science & Machine Learning)**
- **OriginLab Pro**
- **Unscrambler X (Camo Software)**
- **OpenLCA**

Extracurricular Activities:

- **2016-Present: Working as Science Writer** by writing in different National Science Magazines named "**Byapon**", "**Dhrubok**", "**White Origins**", Blog (www.mkhossain.blogspot.com), and online portal www.bishwo.com

Participation in Research Workshops:

- Successfully completed "**Writing for Research**" having four sections (Fundamental of manuscript preparation, Writing skills, Technical writing skills, and Book writing) from **Elsevier Researcher Academy** in 2022 from online resource.
- Actively participated **three weeks long "1st Univ workshop on research & publication"** on June 06-21, 2020 arranged by Univ.
- Participated in Workshop on **Research Methodology & Scientific Paper Writing** organized by DUSS -2017.