



Department of Leather Engineering
Khulna University of Engineering & Technology
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Md. Enamul Hasan Zahin

Assistant Professor

Research Area Solid waste management,
Composting, Preservation

Education

M.Sc. in Leather Engineering

Khulna University of Engineering and Technology, Bangladesh (2020-2024)

Thesis Title: [Co-composting of Chemically Dehaired Sheep Wool with Liming Sludge: An Approach to Waste Management](#)

Supervisor: Professor Dr. Md. Abul Hashem

Bachelor of Science in Leather Engineering

Khulna University of Engineering & Technology, Bangladesh (2016-2020)

Thesis title: Primary treatment of composite wastewater from tannery using natural coagulant (*Aloe barbadensis*)

Higher Secondary Certificate

Adamjee Cantonment College, Bangladesh (2013-2015)

Secondary School Certificate

BIAM Model School & College, Bangladesh (2011-2013) Achievement: Board Scholarship (General)

Service Records

- **Assistant Professor**
Department/Section: Leather Engineering
Khulna University of Engineering and Technology From 24-07-2024 to 01-01-1970
- **Lecturer**
Department/Section: Leather Engineering
Khulna University of Engineering and Technology From 01-02-2022 to 23-07-2024

Research Interest

Solid waste management, Composting, Preservation

Publication

Books

Journals

7. I. Zerine, M. E. Uddin, M. A. R. Noyon, M. E. H. Zahin, I. M. Maafaand A. Yousef, "Utilization of GO-CS-AgNP nanocomposite for organic pollutant removal from tannery wastewater: A sustainable approach," **Environmental Nanotechnology, Monitoring & Management**, Elsevier BV, vol. 22, DOI: <https://doi.org/10.1016/j.enmm.2024.100982>, 2024.
6. M. A. Hashem, M. E. H. Zahin and M. S. Haque, "Salt free goatskin preservation with sugarcane bagasse and silica gel: salinity reduction in tannery wastewater," **International Journal of Environmental Science and Technology**, Springer Berlin Heidelberg, DOI: <https://doi.org/10.1007/s13762-024-05723-4>, 2024.
5. M. A. Hashem, S. Islam, A. A. Mimi, E. T. Enan, M. M. Miem M. T. Rahman and Zahin, "Solid dicarboxylic acid assisted deliming in beamhouse to reduce nitrogen compounds in tannery wastewater," **Journal of Cleaner Production**, Elsevier BV, vol. 448, DOI: <https://doi.org/10.1016/j.jclepro.2024.141440>, 2024.
4. M. A. Hashem, M. S. Sahen, P. Bhowmik, M. E. H. Zahin and F. Ahammad, "Calcination of eggshell could be a lime source for leather processing in tannery," **Waste Management Bulletin**, Elsevier BV, vol. 2, DOI: <https://doi.org/10.1016/j.wmb.2023.12.005>, 2024.
3. M. A. Hashem, H. Paul, M. S. R. Akash, S. Mim and M. E. H. Zahin, "Atypical co-composting technique of managing tannery limed fleshing," **Waste Management Bulletin**, Elsevier BV, vol. 1, DOI: <https://doi.org/10.1016/j.wmb.2023.08.003>, 2024.
2. M. A. Hashem, M. E. H. Zahin, M. S. Haque, M. S. Milu, M. A. Hasan and S. Payel, "Leather shaving dust utilization in brick preparation: Solid waste management in tannery," **Construction and Building Materials**, Elsevier BV, vol. 400, DOI: <https://doi.org/10.1016/j.conbuildmat.2023.132769>, 2023.
1. M. S. N. Nur-A-Tomal, M. A. Hashem, M. E. H. Zahin, M. L. H. Pulok, M. R. Das and S. Mim, "Goatskin preservation with plant oil: significant chloride reduction in tannery wastewater," **Environmental Science and Pollution Research**, Springer Science and Business Media LLC, vol. 28, DOI: <https://doi.org/10.1007/s11356-020-11311-z>, 2021.

Conference

4. I. Zerine, M. E. H. Zahin and M. E. Uddin, "Fabrication of GO-CS-AgNP nanocomposite for the treatment of organic pollutants from tannery wastewater," **6th International Conference on Electrical Information and Communication Technology (EICT)**, IEEE, 2024.

DOI:10.1109/EICT61409.2023.10427774.

3. M. S. Haque, M. E. H. Zahin, M. A. Hashem and S. Payel, "Recovery of chromium from spent chrome liquor for reuse," **International Conference on Mechanical, Industrial and Energy Engineering**, ICMIEE, 2022 .

2. M. E. H. Zahin, M. L. H. Pulok and M. A. Hashem, "Treatment of composite tannery wastewater using Aloe barbadensis as natural coagulant," **Proceedings of the 7th International Conference on Integrated Solid Waste & Faecal Sludge Management: Blue Appropriate Social Oriented Solutions**, WasteSafe 2021, 2021 .

1. M. R. Das, M. Z. Tasnim, M. A. Hashem and M. E. H. Zahin, "Coagulation-adsorption process for dye removal from the tannery wastewater," **Proceedings of the 7th International Conference on Integrated Solid Waste & Faecal Sludge Management: Blue Appropriate Social Oriented Solutions**, WasteSafe 2021, 2021 .