



Curriculum Vitae

Mr. SHIMUL CHAKMA

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IN RESEARCH COMMUNITY

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Research Gate: [Shimul Chakma \(researchgate.net\)](#)

Web of Science (PublonsTM) Researcher ID: [HSI-0990-2023](#)

FIELD OF INTERESTS

Footwear & Leather Science, Polymer Technology, Material Science, Composites.

EDUCATION

1. M. Tech. in Polymer Technology

Department of Applied Chemistry

Delhi technological University

Delhi-110042, India.

Result: CGPA 7.91

2. B.Sc. in Footwear Engineering

Institute of Leather Engineering and Technology

University of Dhaka, Bangladesh.

Result: 1st Class

RESEARCH EXPERIENCES

- Working as a Senior Scientific Officer at Leather Research Institute in Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh since October 10, 2021.
- Worked as Scientific Officer at Leather Research Institute in Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh from February 03, 2013 to October 09, 2021.

COMPLETED R&D PROJECTS

- A process for the manufacturing of Leather Products from skin of Boiler Chicken Leg -- Project Associate (July'20-June'22)
- Production of Counter Stiffener from the waste of Leather Products Industries - Project Leader (July'17-June'19)
- Production of Filler from poultry feather and its application in Leather Processing- Project Associate (July'17-June'19)
- Development of footwear to reduce heel pain - Project Associate (July'19-June'21)
- Development of safety footwear for firefighter - Project Associate (July'14-June'16)
- Development of Shoe last with convex shape for placing Orthotics in Footwear - Project leader (July'13-June'15)

CURRENT R&D PROJECTS

- Development of Composite materials from chrome-tanned leather and its Applications - Project leader (July'22-June'24)
- An ecofriendly method for preservation of hides/skin using *Tamarindus indicana* leaf - Project Associate (July'22-June'24)
- Amendment of Soil using Hide & skin trimmings - Project Associate (July'22-June'24)
- Shaving dust and tannery sludge as absorbent for the treatment of tannery wastewater- Project Associate (July'21- June'23)
- Development of footwear design for pregnant women based on Ergonomics- Project Associate (July'20- June'23)
- Preparation of Adhesive from raw trimmings of hides and skins - Project Associate (July'21- June'23)

PROCESS ACCEPTED

Development of technology for manufacturing flame retardant leather. Ref. 39.02.0000.043.37.394.19/1232; Date:19.01.2022

PUBLICATIONS

1. Shimul Chakma, Kanish Fatama, Nasifa Akter, Md. Nur-E-Alam. *Potential Utilization of*

Solid Wastes Generated from Tannery, Garments and Jute Industries for the Production of Composite Board. Textile & Leather Review. 30 March 2023; 6(98-113). <https://doi.org/10.31881/TLR.2022.110>.

2. Md. Nur-E-Alam, Nasifa Akter, Kanish Fatema, Md. Abul Kashem Azad, **Shimul Chakma**, Md. Anwar Arfien Khan. *Acid hydrolysis of untanned proteinous wastes from tannery industry in Bangladesh.* Journal of Scientific and Innovative Research. 2020; 9(3): 83-86.
3. Nur-E-Alam M, Akter N, Fatema K, Azad MAK, **Chakma S**, Khan MAA. *Enzyme-Accelerated Acid Hydrolysis of Untanned Proteinaceous Wastes from Tanning Industry.* Textile & Leather Review. 2020;3(4): 213-225. <https://doi.org/10.31881/TLR.2020.13>
4. M. Nur-E-Alam, N. Akter, **S. Chakma**, K. Fatema, A. K. Azad¹, M. Jaman Chowdhury, M. Abu Sayid Mia. *Alkali Enzymatic Extraction of Keratin Protein from Chicken Feather Waste in Bangladesh.* Iranian (Iranica) Journal of Energy and Environment. 2019;10(4): 235-241. 10.5829/IJEE.2019.10.04.02.
5. **Chakma Shimul**, Kanish Fatema, Md. Nur-E-Alam, Akhtar Hossain. *Development of Shoe last with convex shape for placing Orthotics in Footwear.* International Journal of Advanced Research in Science, Engineering and Technology. 2018; 5(10).7208-7213

PRESENTATION IN SCIENTIFIC CONFERENCE

1. **Shimul Chakma**, Md. Nur-E-Alam, Kanish Fatema, Nasifa Akter and Md. Abul Kashem Azad, “Nanotechnology: A step forward for Environmentally sustainable leather processing”, BCSIR Congress-2022, 01-03 December, 2022, OP-B22,190, Bangladesh Council of Scientific and Industrial Research (BCSIR), Bangladesh, Oral presentation.
2. **Shimul Chakma**, Md. Nur-E-Alam, Kanish Fatema, Nasifa Akter and Md. Anwar Arfien Khan, “An Innovative Waste-to-Wealth Strategy for Shoe Counter Stiffener using Leftovers from the Leather Footwear Industries”, International Conference on Environmental Protection for Protection for Sustainable Development (ICEPSD-2022), 2-4 September, 2022, OP-F5;182, ORAL presentation.

PARTICIPATION IN SCIENTIFIC CONFERENCE & WORKSHOPS

1. Participated in workshop on “**How to write a scientific abstract**”, organized by WILEY Research Marketing APAC on August 18, 2021.
2. Participated in workshop on Author Workshop on “**Fundamentals of Writing Research Articles for Top Journals**” at Bangladesh University of Engineering and Technology

(BUET), on Tuesday 10 August, 2021, Presented by Vishal Gupta Senior Consultant-Elsevier.

3. Participated in lecture series on “**Recycling of Plastic Waste to Plastic Composites Products**”, organized by Asian Polymer Association on April 10, 2021.
4. Participated in the **1st Indo-Bangla workshop on Biomaterials** in 2019 at BCSIR.
5. Participated in the **XXXIV International Union of Leather Technologists & Chemists (IULTCS) Congress** at CHENNAI, INDIA from 5-7 February, 2017.

LANGUAGE PROFICIENCY

1st Language: Chakma (Mother Tongue)

2nd Language: Bangla (Excellent in writing, reading, speaking)

3rd Language: English (Excellent in writing, reading, speaking)

SKILLS

- Capable in handling of UTM, SATRA Physical Testing instruments.
- Trained on ISO/IEC 17025:2017

TRAINING

1. Successfully completed an **Executive Training Programme in Quality Control Methods in Footwear Manufacture** at CSIR- CLRI, Chennai, India between January 10, 2017 to February 07, 2017.
2. Successfully completed **1st Foundation Training Course of BCSIR** between August 3, 2014 to October 2, 2014 at Bangladesh Civil Service Administration Academy (BCSAA).

REFERENCES

1. Prof. (Dr.) D. Kumar

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3. Prof. Dr. Md. Abdul Mottalib

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Signature