



**Manuscript Title: Innovative Approach for Sustainable Disperse Dyeing of Polyester using aNIR® technology**



Name of the Presenting Author: **Prof. Dr. Michael Rauch**

Affiliation: **University of applied science Hof, department Muenchberg, Germany**

**Short Biography of Presenting Author (not more than 150 words):**

- Experience
  - Rudolf Chemicals: R&D products for chemical finishing (2 years)
  - Hofer Textilveredlung: assistant production manager (1 year)
  - BASF SE: R&D textile dyestuffs and polyamide for fibre production (9.5 years)
  - Since 2002: professor at hof university of applied science Hof – department Muenchberg: process technology of textile finishing
- Research Projects
  - Hydrophobic and oleophobic repellents (products, testing methods)
  - UV-curable resins for coating
  - Digital printing
  - Dyeing of industrial fibres (for example aramids)
  - Light protection of industrial fibres (for example aramids)
- Education
  - Textile engineer for textile finishing
  - Industrial engineer
  - Dr.-Ing., TU Dresden, Germany: Process development for finishing of aramid-based multifunctional protective clothing
- Engagement in Textile Associations
  - President of the German Association of Textile Specialist VDTF e.V.
  - Treasurer of the International Federation of Associations of Textile Chemists and Colourists IFATCC
- Age
  - 58 years

Name of the Corresponding Author:

Affiliation:

**Short Biography of the Corresponding Author (not more than 150 words):**

(Your bio should include but not limited to your current position, your areas of interest with relevant experiences, most notable accomplishments, any impressive research collaboration)



**Manuscript Title: Fabric of the Future: Statistical Approaches to Solar Energy Utilization in Bangladesh's Textile Realm**



Name of the Presenting Author: Md. Mortuza Ahmmed

Affiliation: Associate Professor, Department of Mathematics, American International University-Bangladesh (AIUB), Dhaka, Bangladesh

**Short Biography of Presenting Author:**

Md. Mortuza Ahmmed a Statistician with an extensive range of research interests. His interests are mainly application based -- how to apply different statistical techniques in different sectors to perform more accurate and precise analyses as well as projection. His core academic research areas are public health, education and machine learning. One of his primary goals concerning students is to assist them with technical knowledge to turn their thoughts into successful outcomes to form a modern society.



Name of the Corresponding Author: Mian Mohammad Rassel

Affiliation: Undergraduate Student, Department of Computer Science, American International University-Bangladesh (AIUB), Dhaka, Bangladesh

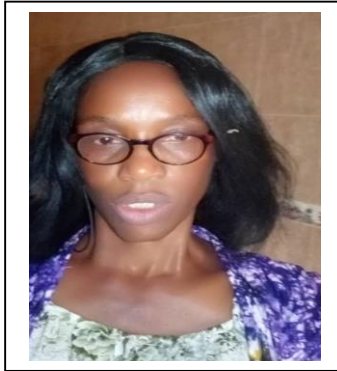
**Short Biography of the Corresponding Author:**

I am Mian Mohammad Rassel, a dedicated student at American International University-Bangladesh (AIUB), majoring in Computer Science and Engineering (CSE). My insatiable thirst for knowledge and fervent passion for machine learning and statistical data analysis constantly drive me to expand the boundaries of understanding. Excelling in coursework and contributing significantly to data science, my research experience in machine learning and statistical data analysis has produced insightful results in a variety of fields, from climate forecasting to business process optimization via data-driven decision-making. I possess a keen eye for detail, enabling me to distill complex information into actionable insights. Recognized by both faculty and peers for my innovative problem-solving approach, I am poised to make substantial contributions to the dynamic fields of machine learning and statistical data analysis as I pursue my degree at AIUB.



**Manuscript Title:... Analysis of Ethno-force Issues Towards the Sustainability of  
Apparel Innovation Entrepreneurship, Southwest Rural Area of Nigeria.**

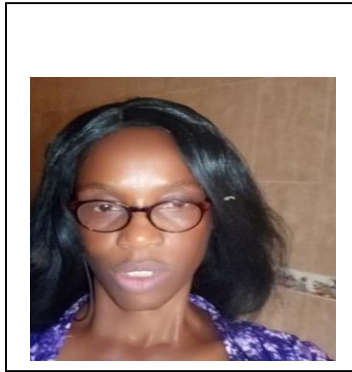
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Name of the Presenting Author: Ola Ajila, K.

Affiliation: Obafemi Awolowo University, Ile-Ife, Nigeria

**Short Biography of Presenting Author(not more than 150 words):** The Author is an Associate Professor of Textile Extension and Rural Development in the Department of Consumer Sciences, Obafemi Awolowo University in Nigeria with additional training on Water Footprinting. Her research works centers on textile innovations delivery and applications in rural communities through developmental programs planning and evaluation. She has published several articles treating textile development targeted at rural livelihoods sustainability. She also worked in the area of solid textile wastes and appropriates management; mostly in recycling textile wastes into stabilizers for improving the tensile strength value in mud bricks towards low cost housing.



Name of the Corresponding Author: Ola Ajila, K.

Affiliation: Obafemi Awolowo University, Ile-Ife, Nigeria

**Short Biography of the Corresponding Author (not more than 150 words):** The Author is an Associate Professor of textile Extension and Rural Development in the Department of Consumer Sciences, Obafemi Awolowo University in Nigeria with additional training on Water Footprinting. Her research works centers on textile innovations delivery and applications in rural communities through developmental programmes planning and evaluation. She has published several articles treating textile development targeted at rural livelihoods sustainability. She also worked in the area of solid textile wastes and appropriates management; mostly in recycling textile wastes into stabilizers for mud bricks for improving the tensile strength value towards low cost housing

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*2nd International Conference on Textile Science and Engineering (ICTSE 2024) with special focus on Textile Processing, Sustainability and Circularity, 23-24 May 2024, BUTEX, Dhaka, Bangladesh*



**Manuscript Title: Biological Treatment of Textile Wastewater by Using Domestic Wastewater as a Co-substrate**



Name of the Presenting and Corresponding Author: Md. Bashirul Islam

Affiliation: Research Lecturer, Institute of River, Harbor and Environmental Science (IRHES), CUET, Chattogram-4349, Bangladesh

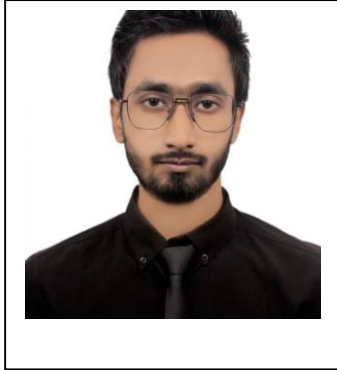
**Short Biography of the Presenting Author:**

Mr. Md. Bashirul Islam is a Research Lecturer at the Institute of River, Harbor and Environmental Science in CUET, Bangladesh. He completed a BSc in 2019 and an MSc in 2022 in Civil Engineering from KUET. He has expertise in Environmental Analysis, Environmental Pollution and Monitoring, Heavy Metals Analysis, Wastewater Treatment, Faecal Sludge Management, Waste to Energy, Climate Change Impact, Concrete Carbon Emission Reduction, Climatology Research, and others. In his early career, he had already published nine articles and 13 international conference papers. Previously, his two conference papers were awarded as the best papers. He also got a KCC-FSM scholarship for doing MSc research. He is always trying to do multidisciplinary research and is currently doing collaborative work on Climatology and Meteorology with BUBT, Dhaka.





**Manuscript Title: Bleach wash with potassium permanganate (KMnO<sub>4</sub>) and alternative potassium permanganate in wet wash and analysis performance in various properties of denim fabric in both cases.**



Name of the Presenting Author: Md. Istiak Ashraf

Affiliation: Pabna Textile Engineering College, Pabna

**Short Biography of Presenting Author (not more than 150 words):**

Md. Istiak Ashraf is an Undergrad student, a Web developer, a Transformation leader, and a Graphic designer. He is a final-year student of Pabna Textile Engineering college. His major is Apparel Engineering. Besides studying he loves to do creative works. He has achieved 1st position with his team in the Hult Prize at Pabna Textile Engineering College. Also has achieved 11th position in distinguished National Undergrad level competition Textile Talent Hunt season 7 in North Zone. He was in the top 43 at the national level of Textile Talent Hunt season 7. Istiak, some of his seniors, and his batchmates formed a group called "Coding School" and its main intention was to introduce coding languages to school-level students. This research is his second research. Istiak has interest in merchandising, Marketing, Fashion designing, and research and development. He loves to work for the country.



Name of the Corresponding Author: Saikat Roy

Affiliation: Pabna Textile Engineering College, Pabna

**Short Biography of the Corresponding Author (not more than 150 words):**

My name is Saikat Roy. I'm from Khulna. I'm studying textile engineering at Pabna Textile Engineering College. My major is Wet Process Engineering. Besides academic education, I completed Fashion as Design Course (6 months) and completed Veterinary Course (3 months). I have interest in Art, drawing, and printing. Also interest in textiles (Dyeing, washing, knitting, woven, Denim, planning, R&D). I am very much interested in research work. It's my first research, and I have gained many experiences. This will encourage me to research in the future.



Name of the Corresponding Author: Setu Mallick

Affiliation: Pabna Textile Engineering College, Pabna

**Short Biography of the Corresponding Author (not more than 150 words):**

My name is Setu Mallick. I am from Khulna. Now I am a final year student at Pabna Textile Engineering College. My major is Apparel engineering. Outside of work, I like to keep myself active. Besides my academic education, I am also involved in some organizations. I am a former president of Pabna Textile Engineering College Bondhushava. I am very much interested in research Work. But it was my first research work. I have gained some experience in this research work. In the future, I could do some better work from this experience.

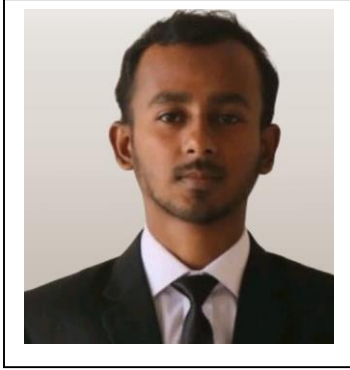


Name of the Corresponding Author: Saurabh Das

Affiliation: Pabna Textile Engineering College, Pabna

**Short Biography of the Corresponding Author (not more than 150 words):**

My name is Saurabh Das. I am a final year student of Pabna Textile Engineering College and a Transformation leader. My major is Fabric Engineering. I and my team achieved 4th place in the Hult Prize at Pabna Textile Engineering College. I have interest in the merchandising, IPE, Quality and R&D Department. Besides my academic education, I am the vice president of the PTEC Career Club. I am very much interested in research work. This is my first research, and here I have gained some experience. In the future, I want to do more research and gain more experience.



Name of the Corresponding Author: Mehedi Hasan

Affiliation: Pabna Textile Engineering College, Pabna

**Short Biography of the Corresponding Author (not more than 150 words):**

I am Mehedi Hasan, a final-year student at Pabna Textile Engineering College. I come from Manikganj, a beautiful and peaceful district close to Dhaka. I always love to do voluntary works. I work in some voluntary organizations like BDClean, CIP (A voluntary organization of our campus) etc. I also never miss any chance to do productive works. I am now the president of the PTEC career club, also the vice president of PTEC debating society. I love listening to songs, watching movies, and reading novels in my free time. I also love cycling; whenever I get an opportunity, I go out for cycling and roam around the nature. My aim in life is to be the better version of myself each day as a good human being. I wish to build a sustainable and impactful career in the Textile Industry and thus serve my society and country.



**Manuscript Title: Machine Learning based Optimization of Jute Ply Yarn Process Parameters and Determination of Relative Importance of the Variables**



Name of the Presenting Author: Palash Paul

Affiliation: University of North Bengal, India

**Short Biography of Presenting Author:**

Palash Paul is presently working as Development Officer in the University of North Bengal, India and looks after the overall development of the University including infrastructure and Research & Development. He did his B. Tech in Jute and Fibre Technology from the University of Calcutta and M. Tech in Textile Engineering from Indian Institute of Delhi (IIT Delhi). Presently he is also pursuing his Ph. D in Textile Technology from the University of Calcutta.

Palash Paul has a total of 17 years of work experience in the field of jute and textiles; 2.5 years in Academic Administration, 10.5 years in Jute Research in a Gov. of India aided research institute, 3 years of Teaching and 1 year in Jute Industry. He has published more than 20 research papers in various journals and contributed one chapter in a book.

He is the life member of the Institute of Engineers (India).



Name of the Corresponding Author: Dr. Asis Mukhopadhyay

Affiliation: Department of Jute and Fibre Technology, University of Calcutta, India

**Short Biography of the Corresponding Author:**

Dr. Asis Mukhopadhyay is presently working as Professor in the Department of Jute and Fibre Technology, University of Calcutta, India for around 30 years, before which he worked in a textile mill for a short stint. His area of specialization in textile physics and research area is mechanics of yarns, fibres and fabrics. He has obtained his B. Tech, MSc. Tech and Ph. D from the Calcutta University.

A prominent face in the area of jute research, Dr. Asis Mukhopadhyay has published more than 30 quality research papers and contributed many chapters in books. He is the member of Textile Association of India and the Indian Natural Fibre Society.



**Manuscript Title:** Comparative Study of UV-Protective Dyes from Terminalia arjuna and Punica granatum: Mordanting Techniques and Sustainability in Textile Production



**Name of the Presenting Author:** Shohag Chandra Das

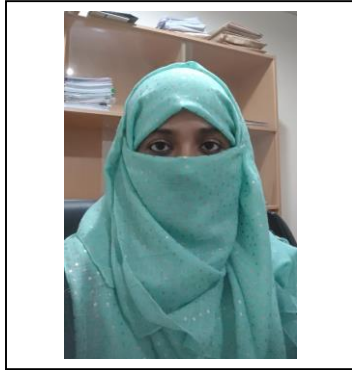
**Affiliation:** Department of Dyes and Chemical Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh.

**Short Biography of Presenting Author (not more than 150 words):**

Shohag Chandra Das is currently working as a Teaching Assistant at the Department of Chemical Engineering, Bangladesh University of Engineering and Technology. He completed his undergraduate studies in the department of Wet Process Engineering at Bangladesh University of Textiles. During his undergraduate years, he served as a Research Assistant from 2019 to 2022 at BUTEX. After graduation, he joined as a Graduate Research Assistant at the Department of Dyes and Chemical Engineering, BUTEX, and worked until the end of 2023. He is the founder of the Multidisciplinary Medical Textiles (MMT) Research Group and has successfully completed approximately 20 research projects. His research areas include Medical Textiles, Biomaterials, polymer science, and tissue engineering.

Shohag C. has outstanding collaboration experiences with Sher-e-Bangla Agricultural University, Centre for Advanced Research in Sciences (CARS), Institute of National Analytical Research and Services (INARS), Bangladesh Council of Scientific and Industrial Research (BCSIR), among others.





**Name of the Corresponding Author:** Dr. Sultana Bedoura

**Affiliation:** Department of Dyes and Chemical Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh.

**Short Biography of the Corresponding Author:**

Dr. Sultana Bedoura is an Assistant Professor at Bangladesh University of Textiles, Department of Dyes and Chemicals Engineering. Her research interests span a wide array of fields, including nanotechnology and biochemical engineering, computational chemistry, textile dyeing, sustainability, and medical textiles. She is also passionate about the extraction and application of natural dyes in textiles. With a Ph.D. in Chemical Engineering, Dr. Bedoura brings a wealth of knowledge and expertise to the field of textile engineering. Her research, published in prestigious journals, has made significant contributions to the field's advancement.



**Manuscript Title: Analysis of Mosquito Repellency of Viscose and Cotton Modal Blend  
Fabric Dyed with *Ocimum Basilicum* Plant Extract by CPB Method**



Name of the Corresponding Author: Nusrat Jahan

Affiliation: Lecturer

**Short Biography of the Presenting Author**

I, am Nusrat Jahan, holds a master's degree in Textile Wet Processing from Bangladesh University of Textiles (BUTEX). I have started my career at the H&M production office, Bangladesh, as a fabric technician and a material merchandiser trainee in the woven fabric supply chain. Currently, I am working as a lecturer in the Department of Textile Engineering at NUB since 2018. Since 2021, working as a judge at Social business creation sponsored by HEC Montreal, Canada to guide young social dreamers who will take part in SBC challenges. As an academic person research is my passion. My research field is especially in Textile coloration and finishing, Sustainable products, Recycling, Waste water treatment ETC. I have so many researches on textile background that I have published in different journal.

Regards,

Nusrat Jahan

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Name of the Corresponding Author: Nusrat Jahan

Affiliation: Lecturer

### **Short Biography of the Corresponding Author**

I, am Nusrat Jahan, holds a master's degree in Textile Wet Processing from Bangladesh University of Textiles (BUTEX). I have started my career at the H&M production office, Bangladesh, as a fabric technician and a material merchandiser trainee in the woven fabric supply chain. Currently, I am working as a lecturer in the Department of Textile Engineering at NUB since 2018. Since 2021, working as a judge at Social business creation sponsored by HEC Montreal, Canada to guide young social dreamers who will take part in SBC challenges.

As an academic person research is my passion. My research field is especially in Textile coloration and finishing, Sustainable products, Recycling, Waste water treatment ETC. I have so many researches on textile background that I have published in different journal.

Regards,

Nusrat Jahan

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Facebook: <https://www.facebook.com/nusutex>

ResearchGate: <https://www.researchgate.net/profile/Nusrat-Jahan-96>

Google scholar: <https://scholar.google.com/citations?hl=en&user=TZ5xXNYAAAAJ>

ORCID iD : 0000-0003-4209-604X



**Manuscript Title: Phase change materials incorporated jute fabric for thermoregulating packaging applications**



Name of the Presenting Author: **Md. Tanvir Hossain**

Affiliation: Lecturer, Department of Textile Engineering, Bangladesh University of Business and Technology (BUBT), Dhaka 1216, Bangladesh

**Short Biography of Presenting Author:**

Md Tanvir Hossain is a Lecturer in the Department of Textile Engineering at Bangladesh University of Business and Technology (BUBT), Dhaka 1216, Bangladesh. In 2024, he earned his M.Sc. degree in Textile Engineering from Dhaka University of Engineering and Technology, where he worked on innovation Rajshahi silk-based nanotechnical cloth. He obtained his B.Sc. in textile engineering from same university in 2022. His research interests include phase change materials, electrospinning, nanotechnology, and functional textiles. Hossain has consistently been writing scholarly works, participating in conference presentations, and fulfilling the role of a peer reviewer for several academic journals.



Name of the Corresponding Author: **Dr. Md Abdus Shahid**

Affiliation: Professor, Department of Textile Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur 1707, Bangladesh

**Short Biography of the Corresponding Author:**

Dr. Md Abdus Shahid is a Professor in the Department of Textile Engineering at Dhaka University of Engineering and Technology (DUET), Gazipur 1707, Bangladesh. With  $\approx$ 25 years of industry and academic experience, he has contributed significantly to his field. Dr. Shahid has published over 75 high-impact journal articles, book chapters, organized conferences, and supervised many PhD and MSc students. Throughout his career, Dr. Shahid has held various academic and administrative roles, including serving as a syndicate member of BUTEX. His expertise spans a wide range of areas including textile and clothing, smart textiles, recycling, fiber and polymer composites, nanofiber synthesis and analysis, and textiles for the next generation.



**Manuscript Title: Sustainable Approach to PBO Fiber Synthesis: Utilizing Chemical Industry Waste for Sustainable Fiber Production.**



Name of the Presenting Author: Mohammad Aiman Hasan

Affiliation: Pacific Jeans LTD. CEPZ

**Short Biography of Presenting Author (not more than 150 words):**

Mr. Mohammad Aiman Hasan is an executive in the research and development department of the denim washing sector at Pacific Jeans LTD., CEPZ. He pursued his graduation from Textile Engineering College, Zorargonj. Currently, he is working on sustainable development in washing techniques. His area of interest is green systems in the textile industry.



Name of the Corresponding Author: Abu Yousuf Mohammad Anwarul Azim

Affiliation: Dhaka University of Engineering and Technology, Gazipur

**Short Biography of the Corresponding Author (not more than 150 words):**

Mr. Abu Yousuf Mohammad Anwarul Azim is the Assistant Professor of Department of Textile Engineering at DUET, Gazipur. He has completed his BSc and MSc from BUTEX. Now he is pursuing his PhD at University of Fukui under the MEXT Scholarship. His research theme are sustainable composite materials, aerogels using supercritical fluid.



**Manuscript Title:** A Comparative Study Of Cost Analysis Of Knit-Based Garments



Name of the Presenting Author: Saifullah Mohammad Ashfak

Affiliation: Port City International University

Saifullah Mohammad Ashfak, a curious mind hailing from the picturesque town of Kumira in Sitakund, Chattogram. Passionate about the intricate world of textiles, I embarked on a journey to explore its nuances. Armed with a Bachelor of Science in Textile Engineering from Port City International University, I delved deep into the art of garment creation, mesmerized by every stitch, every hue, and every cost calculation. As an Industrial Engineer at Shin Shin Group, I weave together my knowledge and expertise to optimize processes and enhance efficiency in textile manufacturing. My dedication to unraveling the complexities of the industry was showcased in my B.Sc. project, where I meticulously analyzed the costs associated with knit-based garments, striving to uncover insights that would drive innovation and sustainability in the field. In every thread, I find inspiration; in every fabric, I see endless possibilities.





Name of the Corresponding Author: **Nusrat Tahmida Hossain**

Affiliation: Port City International University

Nusrat Tahmida Hossain was born in Chattagram, Bangladesh. She completed her B.Sc. degree in Textile Engineering from Bangladesh University of Textiles (BUTEX) department of Apparel Engineering and Prior to it she completed her HSC from Chattagram Cantonment Public College and SSC from Chattagram Govt Girls High School. She completed her industrial training from Knit Concern Limited, Narayanganj. She has pursued teaching as a profession because she enjoys this noble profession of inspiring and motivating students to realize and exceed their potentials. In January 2022, she started her position as a faculty member at Port City International University's Department of Textile Engineering. Her areas of interest in research are technical textiles, smart textiles, CAD/CAM systems, and sustainable textile manufacturing.



**Manuscript Title: Formulation and Comparison of the Performance of Natural-Based vs Commercial Softeners for Textile Application.**

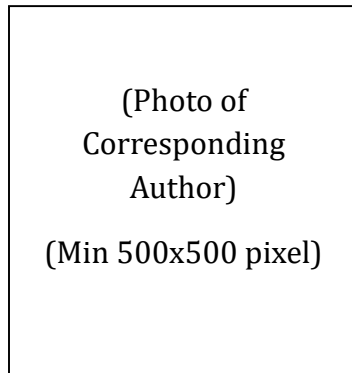


Name of the Presenting Author: Swimi Tabassum Ushno

Affiliation: Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

Swimi Tabassum Ushno is a passionate and driven researcher with a keen interest in Textile chemicals and textile technologies. Having recently graduated with a Bachelor's degree in Dyes and Chemicals Engineering from Bangladesh University of Textiles, Swimi is eager to apply her theoretical knowledge to practical research projects. With a strong foundation in textile studies, she is excited to contribute to the advancement of knowledge in her chosen field. She has been one of the co-authors of a review paper based on 3D printing technology for [textiles.At](#) present, she is working in the Dyes and Chemicals Supply Chain Management department at Pretty Group.



Name of the Corresponding Author: Dr Mohammad Abbas Uddin

Affiliation: Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

Dr Mohammad Abbas Uddin has over 22+ years of experience in the Textile, Apparel and Chemical industry. He has completed his PhD from the University of Manchester, the UK, under Commonwealth Scholarship, MBA from the Institute of Business Administration, University of Dhaka, and Masters from the Curtin University of Technology with an Australian Development Scholarship. He is a Chartered Fellow of Textile Institute UK and currently a faculty of Department of Dyes and Chemical Engineering at BUTEX.

Dr Abbas is leading the inclusion of Sustainability in Textile Engineering curriculum – in Masters, Bachelor and Diploma degree. He led and is responsible for consultancy projects for the World Bank, ADB, EU, IFC, GIZ across Asia. He trained representatives more than 100 textile factories, regulatory officials, brands, and service providers. He has participated as a speaker and panelist in local and international seminars//conferences and works as an advisor to textile industries.



**Manuscript Title: Comparative Evaluation of Commercial Antimicrobial Agents on Cotton Fabric**



Name of the Presenting Author: **Mahfuza Tahsin Shoily**

Affiliation: **Bangladesh University of Textiles**

**Short Biography of Presenting Author:**

Mahfuza Tahsin Shoily is a research assistant at Bangladesh University of Textiles with over a year of experience. Currently, she is working on the green synthesis of silver nanoparticle and its application. She has completed her B.Sc in Textile Engineering from BUTEX in 2022, and has received Dean's award in 2023 for her academic result. In future, she wants to work in the medical textile field.



Name of the Corresponding Author: **Mohammad Abbas Uddin Shiyak**

Affiliation: **Bangladesh University of Textiles**

**Short Biography of the Corresponding Author:**

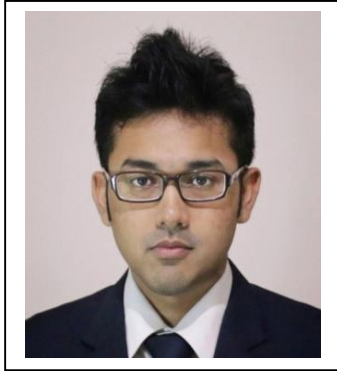
Dr Mohammad Abbas Uddin has over 22+ years of experience in the Textile, Apparel and Chemical industry. He has completed his PhD from the University of Manchester, the UK, under Commonwealth Scholarship, MBA from the Institute of Business Administration, University of Dhaka, and Masters from the Curtin University of Technology with an Australian Development Scholarship. He is a Chartered Fellow of Textile Institute UK and currently a faculty of Department of Dyes and Chemical Engineering at BUTEX.

Dr Abbas is leading the inclusion of sustainability in Textile Engineering curriculum – in Masters, Bachelor and Diploma degree. He led and is responsible for consultancy projects for the World Bank, ADB, EU, IFC, GIZ across Asia. He trained representatives more than 100 textile factories, regulatory officials, brands, and service providers. He has participated as a speaker and panelist in local and international seminars//conferences and works as an advisor to textile industries.

*2nd International Conference on Textile Science and Engineering (ICTSE 2024) with special focus on  
Textile Processing, Sustainability and Circularity, 23-24 May 2024, BUTEX, Dhaka, Bangladesh*



**Manuscript Title:** Assessment of Various Mordant and pH Condition Affecting Cotton Fabric Dyeing with Moringa Leaves

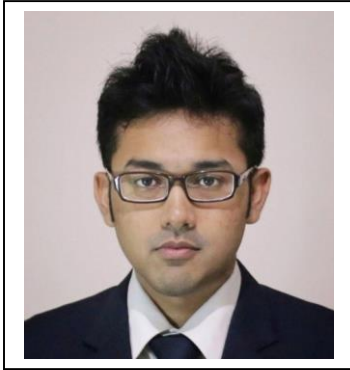


Name of the Presenting Author: Md. Mazharul Helal

Affiliation: Green University of Bangladesh, Dhaka, Bangladesh

**Short Biography of Presenting Author (not more than 150 words):**

Md. Mazharul Helal was born in Narsingdi, Dhaka, Bangladesh in 1995. He received the B.S. degree in Textile Engineering (Major: Apparel Engineering) from Bangladesh University of Textiles (BUTEX) and his M.S. is ongoing in the same institution. Prior to it, he completed his HSC from Notre Dame College, Dhaka and his SSC from Brahmondi K.K.M. Govt. High School, Narsingdi. He completed his industrial training from Masco Industries Limited, Gazipur. Since 2018, he has been working as a Lecturer with the Textile Engineering Department, Green University of Bangladesh. He is a member of the Journal Indexation Committee of Green University of Bangladesh. He is also the convener of Departmental Mill Visit committee. Till now, he published 06 journal articles and 11 conference papers. His research interests include sustainable textile finishes, wearable technology, connected modern textiles, sustainable textile production, garments washing, composite materials, technical textiles, lean manufacturing etc.



Name of the Corresponding Author: Md. Mazharul Helal

Affiliation: Green University of Bangladesh, Dhaka, Bangladesh

**Short Biography of the Corresponding Author (not more than 150 words):**

Md. Mazharul Helal was born in Narsingdi, Dhaka, Bangladesh in 1995. He received the B.S. degree in Textile Engineering (Major: Apparel Engineering) from Bangladesh University of Textiles (BUTEX) and his M.S. is ongoing in the same institution. Prior to it, he completed his HSC from Notre Dame College, Dhaka and his SSC from Brahmondi K.K.M. Govt. High School, Narsingdi. He completed his industrial training from Masco Industries Limited, Gazipur. Since 2018, he has been working as a Lecturer with the Textile Engineering Department, Green University of Bangladesh. He is a member of the Journal Indexation Committee of Green University of Bangladesh. He is also the convener of Departmental Mill Visit committee. Till now, he published 06 journal articles and 11 conference papers. His research interests include sustainable textile finishes, wearable technology, connected modern textiles, sustainable textile production, garments washing, composite materials, technical textiles, lean manufacturing etc.





**Manuscript Title:** Effect of Hybridization (Jute-Sugarcane Bagasse) on Mechanical Properties of Composites



Dr. Sweety Shahinur is an accomplished researcher specializing in material science. With a Ph.D. in Manufacturing Engineering, she has made significant contributions to sustainable development and pollution control. She works as Principal Scientific Officer (PSO), at Bangladesh Jute Research Institute (BJRI). Dr. Shahinur's expertise spans various areas, including natural fiber quality management and renewable energy solutions. Through her research, she strives to address pressing environmental challenges and promote eco-friendly practices. Dr. Shahinur is dedicated to mentoring aspiring scientists and advocating for environmental and renewal conservation. Her passion for creating a greener, more sustainable world drives her work, making her a respected figure in the field of natural fiber science.



Sharmin Akter is a dedicated researcher who works as a Senior Scientific Officer (SSO), at Bangladesh Jute Research Institute (BJRI) with a passion for exploring the frontiers of knowledge. Sharmin's academic journey began with a Bachelor's degree and also completed an M.Sc. degree in physics, where she demonstrated exceptional aptitude and an insatiable appetite for learning. Throughout her career, Sharmin has actively contributed to the research community, publishing her findings in esteemed journals and presenting her work at conferences. Her research interests span a wide range of topics, reflecting her interdisciplinary approach and innovative thinking.



**Manuscript Title: Banana Peel Bio-Coatings: A Sustainable Approach for Fire Retardancy**



Name of the Presenting Author: Md. Imran Hosen

Affiliation: Northern University Bangladesh

**Short Biography of Presenting Author:**

Md. Imran Hosen, a textile engineer and lecturer at Northern University Bangladesh, is committed to the optimization of processes and sustainability within the industry. Possessing a Bachelor of Science degree in Textile Engineering, specializing in Industrial and Production Engineering from Bangladesh University of Textiles, he has transitioned from a career in industry to academia, with a focus on enhancing sustainable production practices through process improvement and optimization. Imran's current pursuits encompass several areas, including workplace safety, resilience within the textile and apparel supply chain, innovation in textile and garment manufacturing, and decision analysis. Collaborating with peers, he actively engages in research endeavors aimed at advancing sustainable practices within the textile manufacturing sector. At the forthcoming conference, Imran is poised to share insights gleaned from his collaborative research efforts, offering invaluable perspectives on the future trajectory of sustainable textile manufacturing.



Name of the Corresponding Author: Md. Himel Mahmud

Affiliation: Northern University Bangladesh

**Short Biography of the Corresponding Author:**

Md. Himel Mahmud, a textile engineer and lecturer at Northern University Bangladesh, is dedicated to sustainable textile innovation. With a Bachelor of Science in Textile Engineering from Ahsanullah University of Science & Technology, he has transitioned from industry to academia, focusing on natural dye extraction, sustainable processing, and functional textiles. Himel collaborates closely with esteemed researchers including Dr. Mohammad Tajul Islam, Dr. Md. Reazuddin Repon, and Dr. Aminoddin Hazi on various research projects. His current endeavors include the development of functional and smart textiles. Himel's commitment to eco-friendly practices and innovative solutions has earned him recognition in the field. At the upcoming conference, Himel will share insights from his collaborative research, offering valuable perspectives on the future of sustainable textile engineering.



**Manuscript Title:** Conversion and Characterization of Bio-Diesel from Tannery Solid Waste



Name of the Presenting Author: Sadman Sadik

Affiliation: Student of department of Leather Engineering at Khulna University of Engineering and Technology, KUET.

## Short Biography of Presenting Author (not more than 150 words):

Sadman Sadik is currently studying at KUET in major of Leather Engineering. His research interest field is biofuel, waste to utilization technology, water and environmental engineering field. He was a team member of team KILO FLIGHT, representing Bangladesh at Formula SAE JAPAN, 2023. Besides, he writes many articles in Prothom Alo and national dailies newspapers. His recent research projects are Biomaterials from keratinous waste and Fire resistant automobile seat leather and Machine learning in Water Engineering.



Name of the Corresponding Author: Md. Sabbir Hosen

Affiliation: graduate student of department of Leather Engineering at Khulna University of Engineering and Technology, KUET.

## Short Biography of the Corresponding Author (not more than 150 words):

Md Sabbir Hosen is an under graduate research instructor at Jahangirnagar University. His main research focus on polymeric composite and sustainable engineering. He completed B.Sc. in Engineering from KUET and M.Sc. in Environmental Science from JU. In time, he works as research assistant of Dr. Md. Mostafizur Rahman (Professor of department of Environmental Science and Management, JU). He is broadly connected with own graduate research team and pursuing as a Ph.D. candidate. That team performs various projects on bio-composite, environmental risk assessment and remedies, waste management and sustainable products. His current publications are available in his portfolio. (available on google: Sabbir h Mitul)



**Manuscript Title: Comparative Analysis of The Properties of Viscose Fabric Dyed with Reactive Dyes Using Groundwater, Rainwater and Seawater**



©

Name of the Presenting Author: Md. Abu Sayed Monshi

Affiliation: Pabna Textile Engineering College.

**Short Biography of Presenting Author:**

Md. Abu Sayed Monshi, having completed his bachelor's degree from Pabna Textile Engineering College, currently serves as a Product Developer at Libas Textile Ltd. As a research enthusiast, he is dedicated to advancing his knowledge continuously. He has actively participated in various research projects focusing on electrospinning, viscose fibre, and cellulose derivatives. With a keen interest in research, he aspires to future, contributing to innovative advancements and discoveries.



Name of the Corresponding Author: Md. Abu Sayed Monshi

Affiliation: Pabna Textile Engineering College.

**Short Biography of the Corresponding Author :**

Md. Abu Sayed Monshi, having completed his bachelor's degree from Pabna Textile Engineering College, currently serves as a Product Developer at Libas Textile Ltd. As a research enthusiast, he is dedicated to advancing his knowledge continuously. He has actively participated in various research projects focusing on electrospinning, viscose fibre, and cellulose derivatives. With a keen interest in research, he aspires to future, contributing to innovative advancements and discoveries.





## **Enhancing Plastic Waste Management in Alkaran Ward of Chattogram City through Materials Flow Analysis**

Name of the Presenting and Corresponding Author: Md. Nour Hossain



Affiliation: Lecturer, Department of Disaster Engineering and Management (DEM), CUET, Chattogram-4349, Bangladesh

### **Short Biography of the Presenting Author:**

Mr. Md. Nour Hossain is a Lecturer at the Department of Disaster Engineering and Management (DEM) in CUET, Bangladesh. He completed his BSc in 2021 in the Department of Civil Engineering from CUET and an MSc program is ongoing from the same university. He has expertise in Environmental Analysis, Environmental Pollution and Monitoring, Climate Change Impact, Concrete Carbon Emission Reduction, and others. In his early career, he had already published 3 articles 6 international conference papers, and a Poster. Previously, his conference paper was awarded as the best paper. He is always trying to do multidisciplinary research.



**Manuscript Title: Conversion of Waste to Wealth by Reusing Rinse Water in Knit Dyeing**



Name of the Presenting Author: Arun Kanti Guha

Affiliation: Department of Textile Engineering, Southeast University, Tejgaon, Dhaka 1208, Bangladesh.

**Short Biography of Presenting Author (not more than 150 words):**

Arun Kanti Guha was born in 1969 in Bangladesh. He received BSc (Honors) and MSc in Chemistry from Dhaka University, Bangladesh in 1990 and 1991 respectively and the PhD degree from Department of Chemistry, Inha University, Republic of Korea in 2000. He has completed postdoctoral research from the same department and University of Republic of Korea from January, 2003 to August, 2005. He has over twenty years of research and teaching experience in different Universities of Bangladesh and abroad. He published valuable papers in prestigious peer reviewed international Journals such as American Chemical Society, Royal Society of Chemistry, UK and Wiley. He was the recipient of Korean Govt. Scholarship and postdoctoral fellowship from Korea Research Foundation. He has been serving as a professor at the department of textile engineering of Southeast University, Dhaka, Bangladesh.



Name of the Corresponding Author: Arun Kanti Guha

Affiliation: Department of Textile Engineering, Southeast University, Tejgaon, Dhaka 1208, Bangladesh.

**Short Biography of the Corresponding Author (not more than 150 words):**

Arun Kanti Guha was born in 1969 in Bangladesh. He received BSc (Honors) and MSc in Chemistry from Dhaka University, Bangladesh in 1990 and 1991 respectively and the PhD degree from Department of Chemistry, Inha University, Republic of Korea in 2000. He has completed postdoctoral research from the same department and University of Republic of Korea from January, 2003 to August, 2005. He has over twenty years of research and teaching experience in different Universities of Bangladesh and abroad. He published valuable papers in prestigious peer reviewed international Journals such as American Chemical Society, Royal Society of Chemistry, UK and Wiley. He was the recipient of Korean Govt. Scholarship and postdoctoral fellowship from Korea Research Foundation. He has been serving as a professor at the department of textile engineering of Southeast University, Dhaka, Bangladesh.



**Manuscript Title: Different types of polyester fabric dyeing with natural dye: Enhancing performance and sustainability.**



Name of the Presenting Author: **Nazmus Sakib**

Affiliation: Department of Fabric Manufacturing Engineering (Textile Engineering College Zorargonj, Chattogram, is affiliated College of Butex), Bangladesh.

Who has completed his bachelor's degree in Fabric Manufacturing from Textile Engineering College, Chattogram. He is currently working as an Assistant Merchandiser at South East Textiles Pvt Ltd since 2021. One of his responsibilities is to develop sustainable and biodegradable garments for the Sainsbury brand. He has been involved in the Cradle to Cradle (C2C) program, which focuses on sustainable garment manufacturing, as well as a program for producing plastic and elastane-free garments for the C&A buyer. His research interests include nano-textiles, especially for medical applications, biodegradable textiles, fibers and polymers, and sustainability. He is also engaged in research on sustainable textiles business control and the use of CLO, a virtual 3D sampling software, which saves time and reduces wastage during the sampling stage.



Name of the Corresponding Author: **Nazmus Sakib**

Affiliation: Department of Fabric Manufacturing Engineering (Textile Engineering College Zorargonj, Chattogram, is affiliated College of Butex), Bangladesh.

Who has completed his bachelor's degree in Fabric Manufacturing from Textile Engineering College, Chattogram. He is currently working as an Assistant Merchandiser at South East Textiles Pvt Ltd since 2021. One of his responsibilities is to develop sustainable and biodegradable garments for the Sainsbury brand. He has been involved in the Cradle to Cradle (C2C) program, which focuses on sustainable garment manufacturing, as well as a program for producing plastic and elastane-free garments for the C&A buyer. His research interests include nano-textiles, especially for medical applications, biodegradable textiles, fibers and polymers, and sustainability. He is also engaged in research on sustainable textiles business control and the use of CLO, a virtual 3D sampling software, which saves time and reduces wastage during the sampling stage.



**Manuscript Title: Impact of Present Transportation Dynamics on Supply Chain Management of Apparel Sector of Bangladesh.**

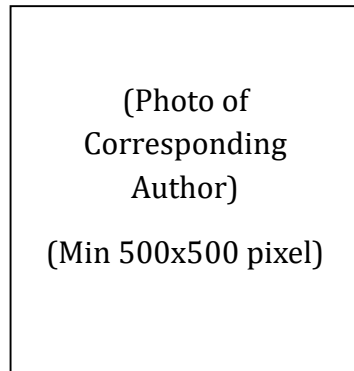


Name of the Presenting Author: Mohammad Mahmudur Rahman Niaz

Affiliation: Bangladesh University of Professionals, Dhaka

**Short Biography of Presenting Author (not more than 150 words):**

The author was born in Cumilla District. He is serving in Bangladesh Army since 1999. He served in various staff, command and instructor appointments. He completed his Bachelors in Civil Engineering and Masters in Defence Studies and Business Administration. He had major in Supply Chain management in Masters in Business Administration. Presently he is pursuing Masters in Civil Engineering besides his profession. He attended courses on Remote Sensing, Geographic Information System, Disaster Management, Tunneling and French Language Learning. He has participated in United Nations Mission in Darfur of Sudan and Democratic Republic of Congo. He was also closely knitted with the Rana Plaza Rescue Operation. He has long experience of actively working in various national construction projects. He has more than 70 publications in various national newspapers and journals. He also published 6 books. As author his areas of interests are history, military affairs, travel, supply chain management and technology. This widely travelled person already visited more than 35 countries. He is a bonafied blood donor and till today donated blood for 33 times. Presently he is serving as Town Planner in Bangladesh University of Professionals.



Name of the Corresponding Author:

Affiliation:

**Short Biography of the Corresponding Author (not more than 150 words):**

(Your bio should include but not limited to your current position, your areas of interest with relevant experiences, most notable accomplishments, any impressive research collaboration)



**Manuscript Title: GRAPHENE OXIDE-CHITOSAN NANOCOMPOSITES: AN EFFECTIVE SOLUTION FOR METHYL ORANGE DYE REMOVAL IN FINISHING WASTEWATERS**



**Name of the Presenting Author:** MD MOSTOBA RAFID

**Affiliation:** Department of Leather Engineering, (Khulna University of Engineering & Technology, Khulna-9203), Bangladesh

**Short Biography of Presenting Author (not more than 150 words):**

My name is Md. Mostoba Rafid. My birth took place in Bogura, Bangladesh, on September 5, 2000. In 2018, I went on to get my HSC from Azizul Haque College, following my completion of my SSC at Bogra Zilla School, Bogura in 2016. I attained outstanding grades on every examination. I started my academic adventure by enrolling in the Leather Engineering Department at Khulna University of Engineering & Technology. I started doing research during the first semester of my undergraduate career. I am deeply passionate about the following areas of study: wastewater engineering, biodegradation, environmental biochemistry, nano-catalysis, nanomaterials, water treatment, extraction, biological wastewater treatment, and water and wastewater treatment. I have attended six international academic conferences, in addition to presently undergoing review for two journal articles.





**Name of the Corresponding Author:** MD MOSTOBA RAFID

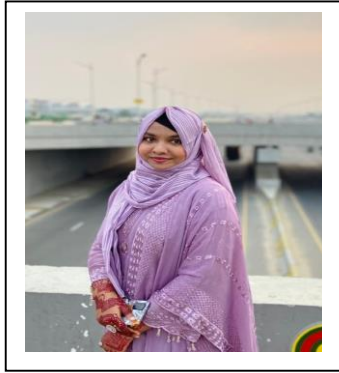
**Affiliation:** Department of Leather Engineering, (Khulna University of Engineering & Technology, Khulna-9203), Bangladesh

**Short Biography of the Corresponding Author (not more than 150 words):**

My name is Md. Mostoba Rafid. My birth took place in Bogura, Bangladesh, on September 5, 2000. In 2018, I went on to get my HSC from Azizul Haque College, following my completion of my SSC at Bogra Zilla School, Bogura in 2016. I attained outstanding grades on every examination. I started my academic adventure by enrolling in the Leather Engineering Department at Khulna University of Engineering & Technology. I started doing research during the first semester of my undergraduate career. I am deeply passionate about the following areas of study: wastewater engineering, biodegradation, environmental biochemistry, nano-catalysis, nanomaterials, water treatment, extraction, biological wastewater treatment, and water and wastewater treatment. I have attended six international academic conferences, in addition to presently undergoing review for two journal articles.



**Manuscript Title:** Automated Assessment of Fabric Color Fastness through Image Analysis



Name of the Presenting Author: Tasnim Tamanna

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

As a textile engineering student at a prestigious university in Bangladesh, Tasnim Tamanna driven by a deep concern for environmental conditions and a commitment to making our world more livable. Her focus lies in leveraging automation to mitigate the impacts of global warming across all stages of textile production. By integrating sustainable practices and cutting-edge technology, she aims to revolutionize the industry's approach to environmental stewardship. Yet, her proudest accomplishment transcends professional success; it's the joy of seeing tears of happiness in her parents' eyes, knowing she have made them proud in every endeavor. Their unwavering support fuels her determination to create a better, greener future for all.



Name of the Corresponding Author: Sharif Ahmed

Affiliation: Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

Sharif Ahmed is an Assistant Professor in the Department of Yarn Engineering at Bangladesh University of Textiles. He earned his bachelor's and master's degrees at the same institution. Presently on study leave, he is immersed in his Ph.D. studies at Cukurova University in Turkey, specializing in image analysis within the textile domain. Additionally, he is actively engaged in research on data science and machine learning, exploring their applications in the field of textiles.



**Manuscript Title: Antimicrobial and antioxidant functionalization of cotton knitted fabrics via mushroom and neem oil treatment: A step towards sustainable textiles**



**Name of the Presenting Author:** Arnob Dhar Pranta

**Affiliation:** Mawlana Bhashani Science and Technology University, Santosh, Tangail.

**Biography**

Arnob Dhar Pranta obtained his B.Sc. in Textile Engineering from Mawlana Bhashani Science and Technology University in 2023. Currently, he serves as a Junior Researcher at ZRRIAM – ZR Research Institute for Advanced Materials. With a fervent passion for innovation, his research pursuits span a diverse array of fields including medical textiles, technical textiles, sustainable production, waste management, and composites. Arnob's commitment to exploring sustainable solutions and advancing the frontier of textile engineering underscores his dedication to making meaningful contributions to society. His interdisciplinary approach and relentless pursuit of knowledge position him as a promising figure in the realm of advanced materials research.



**Name of the Corresponding Author:** Dr. Joykrisna Saha

**Affiliation:** Professor, Dept. of Textile Engg., Mawlana Bhashani Science and Technology University, Santosh, Tangail1902, Cell: 01727548193, Email : joykrisnambstu@gmail.com

**Biography**

Dr. Joykrisna Saha is a Professor in the Department of Textile Engineering at Mawlana Bhashani Science and Technology University (MBSTU). He obtained B.Sc. and M.Sc. degree in Textile Engineering from BUTEX and MBSTU respectively and his PhD degree from the Department of applied chemistry and chemical Engineering at the University of Rajshahi. He joined the Department of Textile Engineering as a Lecturer in the Year 2010 and was promoted as Assistant Professor and Associate Professor in 2012 and 2018 respectively. Finally he promoted as a professor in 2022. Dr. Saha has published more than 30 research papers in reputed peer reviewed national and international journal. He also participated in different national and international conferences. Dr. Saha has successfully completed seven research projects from university and Government funding agencies. He is serving as a reviewer of some esteemed national and international journals. He has guided 35 B.Sc. (Engg.) student projects and 15 M.Sc. (Engg.) student thesis. His main research area includes surface modification of textile with with natural bio polymers, protective textiles, medical textiles, Self-cleaning textiles and so on.



**Manuscript Title:** Development of an Automated Bale Management Technique Using K-means Cluster Algorithm



Name of the Presenting Author: Ahnaf Abid

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

Ahnaf Abid is a running student in the Department of Yarn Engineering at Bangladesh University of Textiles. He also serves as the Assistant Event Secretary of the BUTEX Spinners' Club. With a keen interest in advancing technological applications in the textile sector, His research focuses on areas such as advanced software development regarding the spinning industry and composite fiber development.



Name of the Corresponding Author: Sharif Ahmed

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

Sharif Ahmed is an Assistant Professor in the Department of Yarn Engineering at Bangladesh University of Textiles. He earned his bachelor's and master's degrees at the same institution. Presently on study leave, he is immersed in his Ph.D. studies at Cukurova University in Turkey, specializing in image analysis within the textile domain. Additionally, he is actively engaged in research on data science and machine learning, exploring their applications in the field of textiles.



**Manuscript Title:** Development of an Automated Image Analysis Method to Assess the Fabric Pilling Grade



Name of the Presenting Author: Md. Najmul Hasan

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

Md. Najmul Hasan is a dedicated student who is enthusiastic about research, particularly in the fields of automation and textiles. He is now pursuing a bachelor's degree in textile engineering at BUTex. With a keen interest in research methodology and a desire to contribute to the growth of their area, Md. Najmul Hasan actively seeks chances to work on projects that push the frontiers of knowledge. Their recent work on the 'Development of an Automated Image Analysis Method to Assess Fabric Pilling Grade' demonstrates their ability to use modern image processing techniques to automate and increase the accuracy of fabric quality assessment processes. Md. Najmul Hasan is excited to dig further into the field of research and contribute to relevant breakthroughs. He looks forward to sharing their enthusiasm and discoveries with peers and industry professionals at the upcoming conference.





Name of the Corresponding Author: Sharif Ahmed

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

Sharif Ahmed is an Assistant Professor in the Department of Yarn Engineering at Bangladesh University of Textiles. He earned his bachelor's and master's degrees at the same institution. Presently on study leave, he is immersed in his Ph.D. studies at Cukurova University in Turkey, specializing in image analysis within the textile domain. Additionally, he is actively engaged in research on data science and machine learning, exploring their applications in the field of textiles.



**Manuscript Title:** Business Process Re-engineering of Traditional Textiles – A Case Study of Aipan Folk Art of Uttarakhand, India.



Name of the Presenting Author: Dr. A Srinivasa Rao

Affiliation: National Institute of Fashion Technology (NIFT)

**Short Biography of Presenting Author (not more than 150 words):**

Dr. Rao is a Professor with the department of FMS, NIFT Hyderabad. He holds a PhD & UGC-NET for Lectureship in 'management science'. He is a certified 'Entrepreneurship Educator' under Stanford University Ventures Program & 'Trainer' under IFC program. He has put in 29 years of distinguished service spanning twelve years of industry experience, and seventeen years in academics including the present stint. He presented & published several papers in reputed national and international conferences including IFFTI 2021, UK; TIWC 2009, HK and published 'The Case Center', UK. He obtained a Geographical Indication for Nirmal Craft in 2009. He contributed for NIFT IPR manual. He was instrumental in signing of the MOU with FIT, New York, ESMOD, Germany, and University Boras, Sweden. His workshop at Addis Ababa & HR manual for ETIDI were highly appreciated. Apart from guiding PhD scholars, he handles courses for PG and UG students including Entrepreneurship; Global Marketing & e-commerce; SCM; OB; Services Marketing; Cluster Studies.



Name of the Corresponding Author: Shagun Tewari

Affiliation: PhD Scholar, National Institute of Fashion Technology (NIFT)

**Short Biography of the Corresponding Author (not more than 150 words):**

Shagun Tewari is a Ph.D. Scholar from Department of Fashion Management Studies, National Institute of Fashion Technology, Hyderabad conducting research in the field Entrepreneurial Ecosystem for Handicraft Artisans in India. She holds a Master's degree in Fashion Management. She received Nagamma Shanti Bai Award for the Best Achiever in Social Work during her under-graduation and Best Graduation Project Award during her post-graduation at NIFT. She has published papers in national and international conferences including IFFTI (2022) and IICD (2021). She is associated with DC (Handicrafts) as an Empaneled Designer and conducts design workshops/trainings for artisans in Central region of India. She specializes in natural-fiber handicrafts and has keen interest in craft development and diversification.



**Manuscript Title: Analysis on the Prospects of Textile Sludge Utilization in Energy and Agriculture Through Hydrothermal Liquefaction**



Name of the Presenting Author: Mahamud-Ul Islam

Affiliation: Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

Mahamud-Ul Islam is in his last semester, pursuing a Bachelor's degree in Textile Engineering from the Department of Environmental Science and Engineering at Bangladesh University of Textiles. Currently, he serves as a Research Assistant in his department, working on a project to investigate the functionality of biochar derived from both pre- and post-consumer textile waste. His research interests include circular products, waste biomass conversion, sustainable fashion supply chain, and recycling. Recently, his first research work, titled "Valorization of textile sludge and tannery fleshing wastes through co-hydrous pyrolysis within the domain of biocrude production," conducted under the supervision of Md. Refat Hossain, Lecturer in the Department of Environmental Science and Engineering, BUTEX, has been accepted for publication in the Journal of Biomass Conversion and Biorefinery by Springer. For inquiries or collaboration opportunities, Mahamud-Ul Islam can be reached via email at [2019110004@ese.butex.edu.bd](mailto:2019110004@ese.butex.edu.bd).



Name of the Corresponding Author: Md. Refat Hossain

Affiliation: Lecturer, Department of Environmental Science and Engineering, Bangladesh University of Textiles, Bangladesh

**Short Biography of the Corresponding Author (not more than 150 words):**

Md. Refat Hossain has completed his BSc and MSc in Civil Engineering (Major: Environmental Engineering) from Khulna University of Engineering and Technology. Mr. Hossain has excellent research experience on biomass conversion technology into biofuel production. He also worked on textile sludge and tannery waste management, microalgae based wastewater treatment, sludge treatment, peat land management, shrimp waste-derived chitosan harvested microalgae. He published several research papers in Scopus indexed peer reviewed journals named "Journal of Cleaner Production", "Fuel", "Fuel Processing Technology", Journal of Analytical and Applied Pyrolysis", "Biomass Conversion and Biorefinery", "AIP Conference Proceedings". He worked as Principal Researcher of BUTEX Research Grants Projects. He is committed to advancing his knowledge in order to solve society's ever-changing engineering issues.



**Manuscript Title:** Developing High Performance Nanofibrous Yarn through Electrospinning



**Name of the Presenting Author:** Faisal Rahaman Shagor

**Affiliation:** Scientist, Echotex Limited, Gazipur, Bangladesh

**Short Biography of Presenting Author (not more than 150 words):**

Faisal Rahaman Shagor currently holds the position of Scientist at R&D department of Echotex Limited, Gazipur, Bangladesh. Previously he was a research associate of R&D department at Echo Sourcing Ltd. and a research assistant at Pabna Textile Engineering College. His research mainly focuses on polymeric textile material, textile waste management, fiber, nanofiber and electrospinning, circular economy of textile industry and material science to address environmental issues. He published three of his research works on international journals and attended 5 national and international conferences to present his works by presentation and poster. He supervised more than 10 interns and co-supervised 4 B.Sc. students on their thesis. He has the collaboration with some prominent research lab in Bangladesh including but not limited to Sonali Bag® research lab, BUET, Applied Bioplastics, Atomic Energy Research Establishment, BCSIR, etc.



**Name of the Corresponding Author:** Dr. Mubarak Ahmad Khan

**Affiliation:** Scientific Advisor, Bangladesh Jute Mills Corporation, Motijheel, Dhaka, Bangladesh

**Short Biography of the Corresponding Author (not more than 150 words):**

Dr. Mubarak Ahmad Khan is a renowned Bangladeshi scientist, currently holds the position of Scientific Advisor at the Bangladesh Jute Mills Corporation. He was the former Chief Scientific Officer (CSO) and Director General of the Bangladesh Atomic Energy Research Establishment. He is recognized for his significant contributions to various fields such as Textiles and Jute, Nanotechnology, Material Science, Polymer Science, and Sustainable Materials. He has invented biodegradable polybag (Sonali Bag®) from jute, Jutin® (Jute Reinforced Polymer Corrugated Sheet), advanced wound dressing material from cow bone, liquid bio-fertilizer from textile effluent, natural plant growth promoter from prawn shell, etc. His extensive experience includes prestigious fellowships and affiliations with renowned institutions in Australia, Germany, Japan, and the USA.

He is the author/co-author of over 700 (his research work has 13237 Google Scholar cited till April 25, 2024) publications including 22 book chapters and six patents. He supervised more than 350 M.Sc. 10 M. Phil and 23 PhD students. He received several national and international awards such as the Independence Award (2024), Bangladesh Academy of Science Gold Medal (2010), the National Jute Award (2017), the Federation of Asian Chemical Society (2017), the National Environment Gold Medal Award (2019), Pollima Green Gold Medal Award 2019 and especially he has got MIT Solve “Health Security and Pandemics” Challenge in 2020 for his remarkable contributions to the scientific community.



**Manuscript Title: A Novel Approach for GSM Estimation of Woven Fabric Using Yarn and Fabric Image Analysis**



Name of the Presenting Author: Ashiqur Rahman Shuvo

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author:**

I am Ashiqur Rahman Shuvo, an undergraduate student of B. Sc. in Textile Engineering at Bangladesh University of Textiles and my specialization is in Yarn Engineering. My research focuses on fabric recycling, collaborating with esteemed researchers to explore sustainable reuse methods. Passionate about mitigating environmental impact, I aim to pioneer innovative techniques for efficient fabric recycling, fostering a circular economy. My goal is to catalyze positive change in the textile industry by promoting environmentally conscious practices for a more sustainable future.





Name of the Corresponding Author: Mohammad Hasib Uj Jaman Khan

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author:**

I have studied for a B.Sc. in Textile Engineering from Bangladesh University of Textiles and currently working as a lecturer in this same university. I have worked in the yarn manufacturing sector for around two years and am interested in automation, sensor applications and microcontroller-based works. I am willing to do more research to minimize the textile sector's lengthy process and laborious work.



**Manuscript Title: Automated Thread Density Measurement of Woven Fabric by Image Analysis Technique**



Name of the Presenting Author: Ishrat Jahan Eva

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author:**

Education: Currently, I am doing my BSc in textile engineering at Bangladesh University of Textiles.

As a university student, I am interested in research work to understand better and contribute to impactful research projects in a dynamic and innovative environment. Collecting and analyzing data using various research methods and statistical software and identifying significant correlations and trends that contributed to the development of research work are my other interests. Eager to effectively communicate the findings and collaborate with team members to achieve project milestones and objectives. I have skills in data analysis, data management and organization, report writing and presentation. Other than that, I intend to improve my critical thinking and problem-solving abilities.



Name of the Corresponding Author: Mohammad Hasib Uj Jaman Khan

Affiliation: Department of Yarn Engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author:**

I have studied for a B. Sc. in textile engineering at Bangladesh University of Textiles and am currently working as a lecturer at this same university. I have worked in the yarn manufacturing sector for around two years and am interested in automation, sensor applications, and microcontroller-based work. I am willing to do more research to minimize the textile sector's lengthy process and laborious work.



**Manuscript Title: Ergonomic Design, Development and comfort assessment of a Maternity Vest for Garment workers with Support to lower abdomen and lumbosacral region.**



Name of the Presenting Author: Md Imran Howlader

Affiliation: Senior Lecturer, European University of Bangladesh

I have completed my B. Sc. Degree from Khulna University of Engineering & Technology in 2018. After completing my B. Sc., I joined in Taipei Bangla Fabrics Ltd. as an assistant merchandiser. In April 2019, I joined European University of Bangladesh as a Lecturer. Now I have been working on several research projects including fiber reinforced composite, natural dye and polymer based materials. I have contributed several book chapters which are published by Elsevier and Springer. Recently, one of paper has published in Sustainable Chemistry and Pharmacy (IF-6).



Name of the Corresponding Author: Aiasha Siddiqua

Affiliation: Assistant Professor, Department of Apparel Engineering

I am currently employed as an Assistant Professor within the Department of Apparel Engineering, situated in the Faculty of Fashion Design & Apparel Engineering at Bangladesh University of Textiles (BUTEX). Prior to this position, I served as a lecturer in the Department of Textile Engineering at Ahsanullah University of Science and Technology (AUST). My academic journey includes the completion of a B.Sc. in Textile Engineering and an M.Sc. in Textile Engineering from BUTEX in 2016 and 2023, respectively. My research focus lies in sustainability within textile manufacturing.



**Manuscript Title: Performance analysis for multiple generations of recycled PP in jute/PP composites**



Name of the Presenting Author: Dr Sweety Shahinur

Affiliation: Principal Scientific Officer, Department of Physics, Bangladesh Jute Research Institute.

**Short Biography of Presenting Author (not more than 150 words):**

Sweety Shahinur completed her Bachelor (2000) and Master's degree (2001) in EEE (former Applied Physics and Electronics) from Dhaka University, securing distinct position. After her post-graduation she was appointed as a Scientific Officer in the department of Physics, Bangladesh Jute Research Institute, Dhaka, Bangladesh in 2005. She completed her M. Phil degree from the Material and Metallurgical Engineering department of BUET. At present, she is discharging duties as Principal Scientific Officer of Physics department of same institute.

She pursued her Ph. D in mechanical engineering at the Kitami Institute of Technology, Japan. Her research experience so far spreads over a number of key areas especially natural fiber-based polymer composites, sustainable green materials, material uncertainty, material selection etc. Dr Sweety has published over 40 research works including Chapters in Books, Journal and Conference papers and she is also reviewer of several reputed journals.



Name of the Corresponding Author: Dr Sweety Shahinur

Affiliation: Principal Scientific Officer, Department of Physics, Bangladesh Jute Research Institute.

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Sweety Shahinur completed her Bachelor (2000) and Master's degree (2001) in EEE (former Applied Physics and Electronics) from Dhaka University, securing distinct position. After her post-graduation she was appointed as a Scientific Officer in the department of Physics, Bangladesh Jute Research Institute, Dhaka, Bangladesh in 2005. She completed her M. Phil degree from the Material and Metallurgical Engineering department of BUET. At present, she is discharging duties as Principal Scientific Officer of Physics department of same institute.

She pursued her Ph. D in mechanical engineering at the Kitami Institute of Technology, Japan. Her research experience so far spreads over a number of key areas especially natural fiber-based polymer composites, sustainable green materials, material uncertainty, material selection etc. Dr Sweety has published over 40 research works including Chapters in Books, Journal and Conference papers and she is also reviewer of several reputed journals.



**Manuscript Title: Dyeing of silk fabric with natural colorants extracted from babool (Acacia Nilotica) bark: A green approach in protein fabric coloration**

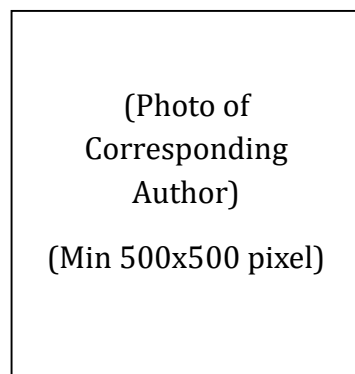


Name of the Presenting Author: Priti Sarker

Affiliation: Associate Professor

**Short Biography of Presenting Author (not more than 150 words):**

(I am Priti Sarker, working as associate professor in department of Textile Engineering, Mawlana Bhashani Science and Technology University. I completed BSc and MSc in textile Engineering from this department. I am doing my PhD in department of chemistry, Jahangirnagar University. My research interest is in the arena of natural dyes and dyeing process, material sciences, special textiles, surface modification of textiles etc.)



Name of the Corresponding Author:

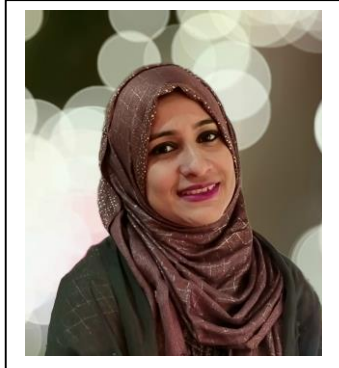
Affiliation:

**Short Biography of the Corresponding Author (not more than 150 words):**





**Manuscript Title: *Facile low-temperature synthesis of sillenite bismuth ferrite: A potential candidate for textile wastewater treatment***

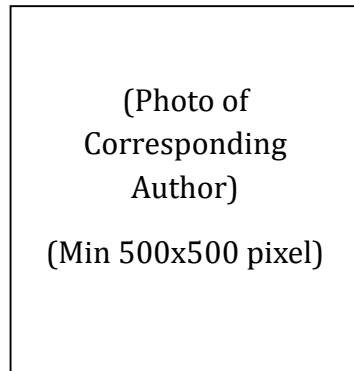


Name of the Presenting Author: Dr. Fahmida Sharmin

Affiliation: Islamic University of Technology and BUET

**Short Biography of Presenting Author (not more than 150 words):**

Fahmida Sharmin is currently serving as an Assistant Professor in the Dept. of NSc. at the Islamic University of Technology, Bangladesh. She has received PhD degree from the Department of Physics, Bangladesh University of Engineering & Technology (BUET). Her research interests lie in environmental remediation by utilizing renewable sources (water and solar) and photocatalysts, synthesized in a cost-effective approach. During her PhD research she has developed a simple low temperature technique to fabricate sillenite bismuth ferrite nanoparticles and successfully utilized them for the removal of toxic dyes from water using solar simulation. The findings were published in the journal ACS Omega.



Name of the Corresponding Author: Same as above

Affiliation:

**Short Biography of the Corresponding Author (not more than 150 words):**

(Your bio should include but not limited to your current position, your areas of interest with relevant experiences, most notable accomplishments, any impressive research collaboration)



**Manuscript Title: Hemp: A Futuristic Medical Textile**



**Name of the Presenting Author:** Shohag Chandra Das

**Affiliation:** Department of Chemical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

**Short Biography of Presenting Author (not more than 150 words):**

Shohag Chandra Das is currently working as a Teaching Assistant at the Department of Chemical Engineering, Bangladesh University of Engineering and Technology. He completed his undergraduate studies in the department of Wet Process Engineering at Bangladesh University of Textiles. During his undergraduate years, he served as a Research Assistant from 2019 to 2022 at BUTEX.

After graduation, he joined as a Graduate Research Assistant at the Department of Dyes and Chemical Engineering, BUTEX, and worked until the end of 2023. He is the founder of the Multidisciplinary Medical Textiles (MMT) Research Group and has successfully completed approximately 20 research projects. His research areas include Medical Textiles, Biomaterials, polymer science, and tissue engineering.

Shohag C. has outstanding collaboration experiences with Sher-e-Bangla Agricultural University, Centre for Advanced Research in Sciences (CARS), Institute of National Analytical Research and Services (INARS), Bangladesh Council of Scientific and Industrial Research (BCSIR), among others.



**Name of the Corresponding Author:** Prof. Dr. Mohidus Samad Khan

**Affiliation:** Department of Chemical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh.

**Short Biography of the Corresponding Author (not more than 150 words):**

Dr. Mohidus Samad Khan is a prominent industrial expert, innovator, and academician with years of experience in biotechnology, chemical, environmental engineering and industrial sustainability research, management and consultancy with distinguished achievements across the globe.

Dr. Khan completed his B.Sc. in Chemical Engineering (2004) from BUET. From 2004 to 2006, he worked as a Research Engineer in an international pollution abatement project funded by DFID (UK), USAID (US), Department of Env (DOE), and Government of Bangladesh. Starting in 2006, Dr. Khan completed his PhD in 2010 in Bio-Surface and Biotechnology Engineering from Department of Chemical Engineering, Monash University, Australia. From 2010 to 2013, he worked as a post-doctoral fellow in the Department of Chemistry at McGill University, Montreal, Canada. In November 2013, Dr. Khan joined Department of Chemical Engineering, BUET as a full-time faculty memb

In April 2020, Dr. Khan started working as National Consultant for Identification of Local Options for Quality Testing of Personal Protective Equipment (PPE) during COVID-19 Pandemic, WHO. From November 2020 to December 2021, he worked as a Member of Technical Advisory Group, Access to Medicines and Health Products Division, WHO Geneva (HQ).

In June 2021, he joined Beximco Group as a Director. In Beximco, Dr. Khan is pioneering the textile industry as Chief Sustainability Officer of Beximco Limited, and Head of Operations at Beximco Health and PPE.

Dr. Khan has shown remarkable expertise in both academia and industry for years. His work interests include biotechnology, cleaner production options, project management, industrial sustainability and pollution control.



**Manuscript Title: Reusing WTP backwash water to save groundwater.**



Name of the Presenting Author: Md. Saidur Rahman

Affiliation: Gildan Activewear Bangladesh

**Short Biography of Presenting Author (not more than 150 words):**

- Regional Manager- Wastewater Treatment, Gildan Bangladesh (2022 to Present)
- Manager- Group ETP & Water Management, DBL Group (2012 to 2022)
- Chemist, PepsiCo International (2011)
- Technical Officer-ETP, NAZ Bangladesh Ltd. (2010)
- Guest Lecturer, IUBAT
- Sr. Trainer, IWWRT
- Trained from Organization:
  - GIZ, ZDHC, SAC, BCSIR, TUV SUD, CERM (BUET), NITER, CMD BD & Green Circles Inc India, NSU, CEOT etc.
- Involved Project:
  - Water PaCT project (IFC&DEG), CLP, STWI, Higg FEM,C2C, CP, ZDHC, CPI2, Sludge management project with GIZ, IUT & Lafarge Holcim etc.
- Skills: WTP, ETP, STP, Rainwater Harvesting Plant, Water & Energy Efficiency Plan, Chemical Management System, Solid Waste Management System etc.
- M.Sc & B.Sc (Hon's) in Chemistry, Jagannath University (JnU)
- PGD in KIM, Brac University
- Cell: 01757978597, Email: saidurchemist@gmail.com



Name of the Corresponding Author: Md. Saidur Rahman

Affiliation: Gildan Activewear Bangladesh

**Short Biography of the Corresponding Author (not more than 150 words):**

(Same as for Presenting author)



**Manuscript Title: CHARACTERIZATION OF SILVER NANOPARTICLES SYNTHESIZED WITH SHOBRI BANANA PEEL EXTRACT: EXPLORING ANTIMICROBIAL PROPERTIES.**



**Name of the Presenting Author 1:** Md. Maruf Mia

**Affiliation:** Department of Dyes and Chemical Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh.

**Short Biography of Presenting Author 1:**

Md. Maruf Mia is a forward-thinking researcher with a passion for nanotechnology and sustainability. His recent work revolves around synthesizing silver nanoparticles from banana peel biowaste, aiming to unlock their antimicrobial potential. With extensive training in chemical safety and a strong environmental conscience, Maruf is dedicated to advancing eco-friendly solutions to complex challenges. His precise and meticulous approach to research reflects his commitment to ethical practices and a greener future.



**Name of the Presenting Author 2:** Md. Rezwanul Islam

**Affiliation:** Department of Dyes and Chemical Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh.

**Short Biography of Presenting Author 2:**

Md. Rezwanul Islam is a nanotechnology enthusiast with a passion for sustainability. Recently, he delved into synthesizing silver nanoparticles from banana peel biowaste, aiming to

leverage their antimicrobial properties for medical textiles. His work embodies a dedication to innovative solutions that benefit both society and the environment.



**Name of the Corresponding Author:** Dr. Sultana Bedoura

**Affiliation:** Department of Dyes and Chemical Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh.

**Short Biography of the Corresponding Author:**

Dr. Sultana Bedoura is an Assistant Professor at Bangladesh University of Textiles, Department of Dyes and Chemicals Engineering. Her research interests span a wide array of fields, including nanotechnology and biochemical engineering, computational chemistry, textile dyeing, sustainability, and medical textiles. She is also passionate about the extraction and application of natural dyes in textiles. With a Ph.D. in Chemical Engineering, Dr. Bedoura brings a wealth of knowledge and expertise to the field of textile engineering. Her research, published in prestigious journals, has made significant contributions to the field's advancement.





**Manuscript Title:** Integration of natural dyes into single-bath dyeing and finishing & Recent advancements in sustainable and greener dyeing techniques narrowing down water consumption

(Photo of Presenting Author)

(Min 500x500 pixel)

Name of the Presenting Author: Mir Abdul Gaffar

Affiliation: Wet process engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

My journey began with a fascination for crafting new molecules through chemical synthesis. This curiosity led me to explore the exciting field of sustainable textile processing. I'm driven by the challenge of developing eco-friendly methods for fabric treatment, aiming to minimize environmental impact throughout the textile lifecycle. My goal is to bridge the gap between innovative chemical synthesis and a greener future for the textile industry.

(Photo of  
Corresponding Author  
(Min 500x500 pixel)

Name of the Corresponding Author: Mir Abdul Gaffar

Affiliation: Wet process engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

My journey began with a fascination for crafting new molecules through chemical synthesis. This curiosity led me to explore the exciting field of sustainable textile processing. I'm driven by the challenge of developing eco-friendly methods for fabric treatment, aiming to minimize environmental impact throughout the textile lifecycle. My goal is to bridge the gap between innovative chemical synthesis and a greener future for the textile industry.



**Manuscript Title: Effective usage of cow dung as biosorbent followed by Fenton's reagent in advanced oxidation process as a progressive alternative for traditional textile effluent treatment.**

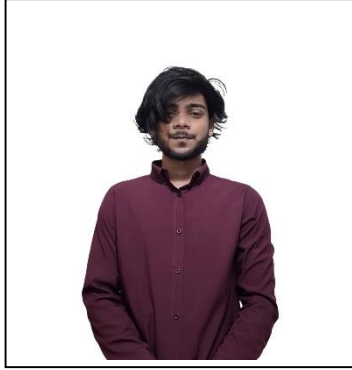


**Name of the Presenting Author:** Sumaiya Binte Hasan

**Affiliation:** Department of Environmental Science & Engineering, Bangladesh University of Textiles, Bangladesh

**Short Biography of Presenting Author:**

I am a final-year undergraduate student at Bangladesh University of Textiles. My focus during my undergraduate studies is the relationship between sustainability and the textile industry. I aim to utilize my passion for research and analytical skills to help innovative projects and advance sustainable textile innovation. Under the direction of our respected dean and professor, Dr. Ummul Khair Fatema, I am a research assistant for the project "**Solid Waste Management Practices in Textile Supply Chain for Sustainable Growth.**" The project "**Quantitative Analysis of Aquatic Microfiber Release from Textile Wear During the Consumer Stage**" is another one in which I participated. Additionally, I attended a **GIZ**-organized course on chemical management. All of these encounters encourage me to work towards my goals. With my commitment to quality, openness to learning, and excitement for the global textile sustainability movement, I want to gain fresh insights from this conference.



**Name of the Corresponding Author:** Abit Ahsan Sajid

**Affiliation:** Department of Environmental Science & Engineering, Bangladesh University of Textiles, Bangladesh

**Short Biography of the Corresponding Author:**

I am Abit Ahsan Sajid and currently on the edge of completing my bachelor's degree from Bangladesh University of Textiles. Apart from my academic curriculums I have always been desperate to learn new things which would be beneficial for myself in the longer run. Some of my notable completed online courses are 'Introduction to Sustainability', 'Environmental Management and Ethics', 'Introduction to Environmental Law and Policy', 'Supply Chain Management: A Learning Perspective', 'Leadership in 21st Century Organizations' and 6 other online courses with proper credentials. I am also currently appointed as a supporting staff of the ongoing project named "**Solid Waste Management Practices in Textile Supply Chain for Sustainable Growth.**" All of these online courses and projects has really helped me to have a broader perspective of the modern organizational systems which were really fun to learn and I look forward to implement them in my future professional career.



**Name of the Corresponding Author:** Tahmid Hasan

**Affiliation:** Department of Environmental Science & Engineering, Bangladesh University of Textiles, Bangladesh

**Short Biography of the Corresponding Author:**

As an undergrad student at Bangladesh University of Textiles, I strongly support sustainable textile techniques, I want to push creative solutions that reduce environmental impact and promote ethical manufacturing. By integrating cutting-edge technology and alternative materials, I hope to transform old production methods and pave the path for a greener future in fashion. Previously I have worked on two significant review papers during the Corona Pandemic, one of them titled “**Environmental Impacts of Personal Protective Clothing Used to Combat COVID-19**” published in the journal **Advanced Sustainable Systems** and the other one “**Graphene-Based Technologies for Tackling COVID-19 and Future Pandemics**” published in the journal **Advanced Functional Materials**. Committed to education and awareness, I work with communities to promote conscious purchasing and develop a sustainable society. With a steadfast commitment to conserving our world, I want to develop a textile sector that values profit while simultaneously prioritizing the well-being of people and the environment.



**Manuscript Title:** Recent advancements in sustainable and greener dyeing techniques narrowing down water consumption



Name of the Presenting Author: Mir Abdul Gaffar

Affiliation: Wet process engineering, Bangladesh University of Textiles

**Short Biography of Presenting Author (not more than 150 words):**

My journey began with a fascination for crafting new molecules through chemical synthesis. This curiosity led me to explore the exciting field of sustainable textile processing. I'm driven by the challenge of developing eco-friendly methods for fabric treatment, aiming to minimize environmental impact throughout the textile lifecycle. My goal is to bridge the gap between innovative chemical synthesis and a greener future for the textile industry.



Name of the Corresponding Author: Mir Abdul Gaffar

Affiliation: Wet process engineering, Bangladesh University of Textiles

**Short Biography of the Corresponding Author (not more than 150 words):**

My journey began with a fascination for crafting new molecules through chemical synthesis. This curiosity led me to explore the exciting field of sustainable textile processing. I'm driven by the challenge of developing eco-friendly methods for fabric treatment, aiming to minimize environmental impact throughout the textile lifecycle. My goal is to bridge the gap between innovative chemical synthesis and a greener future for the textile industry.



## Manuscript Title: Graphene-Based Wearable E-Textiles for Medical Applications



Name of the Presenting Author: Borhan Uddin Khan

Affiliation: Undergraduate Student, BSc in Textile Engineering (Specialized in Apparel Engineering), Bangladesh University of Textiles.

### Short Biography of Presenting Author:

Borhan Uddin Khan is currently pursuing his undergraduate degree in Textile Engineering from the Bangladesh University of Textiles (BUTEX). He has a keen interest in Material Science, Fiber Technology, Nano-technology, and Medical Textiles. His research project on Plasma Technology and E-Textiles is currently under close supervision, promising a great impact on textile science. He is optimistic to contribute in the scientific community through hard work and passion.





Name of the Corresponding Author: Sabah Tarana Tarique Neesa

Affiliation: Undergraduate Student, BSc in Textile Engineering (Specialized in Apparel Engineering), Bangladesh University of Textiles.

## Short Biography of the Corresponding Author:

Sabah Tarana Tarique Neesa is a student of Bangladesh University of Textiles with expertise in Apparel Engineering. Her research interests lie in the intersection of fiber technology and nanotechnology, exploring topics like supply chain management, sustainability, garment washing, comfort optimization, and polymer engineering methodologies advancement. Through her work, Sabah aims to make significant contributions to Textile Engineering and Nano-technology research and aims to build a strong reputation as a researcher with multiple publications at high-impact conferences and journals. She firmly believes that the textile industry must prioritize eco-friendly and ethical practices to minimize environmental degradation, ensure fair labor standards globally, and cutting-edge innovations.



Name of the Corresponding Author: Gazi Hadiuzzaman

Affiliation: Undergraduate Student, BSc in Textile Engineering (Specialized in Apparel Engineering), Bangladesh University of Textiles.

## Short Biography of Presenting Author:

Gazi Hadiuzzaman is currently pursuing his undergraduate degree in Textile Engineering from the Bangladesh University of Textiles (BUTEX). He is curious about conducting Research on sustainable textiles, textile waste management, fiber, etc, and is interested in participating in quality control or R&D in the textile industries of Bangladesh as well as globally. Gazi published his first research paper on "Bangla Handwritten: A Comparative Study among Single, Numeral, Vowel Modifier, And Compound Characters Recognition Using CNN". Currently, he is focusing on Plasma Technology and E-Textiles to expand his research area. Besides, Gazi Hadiuzzaman founder of "Science 71" where he serves as the Chief Executive, aims to build a new science-based non-discrimination Bangladesh by popularizing science, olympiads, and research among school-level students in 2022.



**Manuscript Title: The Chemistry of Azo Dyes: The mechanism behind carcinogenic amines**



Name of the Presenting Author: Api Rani Arpita

Affiliation: Shahjalal University of Science and Technology, Sylhet

**Short Biography of Presenting Author (not more than 150 words):**

Api Rani Arpita is currently a 3<sup>rd</sup> year undergraduate student of Shahjalal University of Science and Technology, Sylhet, in the department of Chemical Engineering and Polymer Science. Besides her studies, she is working on a project named “Extracting Biopolymer from Environmental Bacteria using Different Substrates”

Her research interests are on the area of Biomaterials, Bioprocess engineering, Nanotechnology, Biomedical Engineering, Tissue Engineering.



Name of the Corresponding Author: Api Rani Arpita

Affiliation: Shahjalal University of Science and Technology

**Short Biography of the Corresponding Author (not more than 150 words):**

Api Rani Arpita is currently a 3<sup>rd</sup> year undergraduate student of Shahjalal University of Science and Technology, Sylhet, in the department of Chemical Engineering and Polymer Science. Besides her studies, she is working on a project named “Extracting Biopolymer from Environmental Bacteria using Different Substrates”

Her research interests are on the area of Biomaterials, Bioprocess engineering, Nanotechnology, Biomedical Engineering, Tissue Engineering.