Curriculum Vitae

S. M. Fazle Rabbi

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Personal Details

Father's Name	:	M. Fazlul Haque
Mother's Name	:	Shahana Haque
Permanent Address	:	Village-Mathavanga, P.O.-Ekhlaspur, P.S.-Matlab North, District-Chandpur.
Blood Group	:	O^{+ve}
Date of Birth	:	March 10, 1997
Marital Status	:	Married

Professional Details

Current Position	:	Lecturer
Department	:	Applied Chemistry and Chemical Engineering
Institution	:	Gopalganj Science and Technology University, Gopalganj-8105
Previous Experience	:	Lecturer [Chemistry] Dept. of Textile Engineering International Standard University (ISU), Mohakhali, Dhaka
ResearchGate Profile	:	*https://www.researchgate.net/profile/S-M-Fazle-Rabbi-4*
ORCID Account	:	*https://orcid.org/0009-0007-4288-5889*
Scopus Author ID	:	*https://www.scopus.com/authid/detail.uri?authorId=60402032100*
Google Scholar Link	:	*https://scholar.google.com/citations?user=X2C3bIEAAAAJ&hl=en&oi=ao*

Academic Details

Degree	Department/Discipline	Institution	CGPA/GPA	Passing Year
M.Sc. (Thesis)	Dept. of Applied Chemistry and Chemical Engineering	University of Dhaka	3.94 [3rd]	2022
B.Sc. (Hons)	Dept. of Applied Chemistry and Chemical Engineering	University of Dhaka	3.85 [4th]	2020
H.S.C.	Science	RAJUK Uttara Model College, Dhaka	5.00	2015
S.S.C.	Science	Govt. Muslim High School, Chittagong	5.00	2013

List of Courses Taught in ACCE, GSTU

ACCE 101: Elements of Chemical Engineering	ACCE 107: Inorganic Chemistry-I	ACCE 151: Material and Energy Balance
ACCE 153: Physical Chemistry-II	ACCE 201: Mass Transfer	ACCE 205: Inorganic Chemistry-II
ACCE 207: Organic Chemistry-II	ACCE 251: Heat Transfer	ACCE 255: Instrumental Analysis-I
ACCE 259: Environmental Chemistry and Engineering	ACCE 303: Fuel and Petrochemical Engineering	ACCE 309: Nano Science and Technology
ACCE 401: Chemical Engineering-IV	ACCE 451: Chemical Reaction Engineering	ACCE 453: Corrosion Engineering
ACCE 501: Heat and Mass Transfer	ACCE 503: Chemical Reaction Engineering and Reactor Design	ACCE 531: Energy Conversion Engineering

Research Activities

1. M.Sc. Thesis on "Valorization of Waste Fish Skin: Synthesis, Characterization, and Application of Electrospun Acid Soluble Collagen-g-PMMA Mat in Rapid Wound Healing" [Funded by NST Fellowship, 2021]
2. GSTU Project on "Isolation of chitosan and gelatin from waste fish scale and a comparative study as modifiers of cotton fabrics for the salt-free reactive dyeing and superior end properties" [Ongoing research]
3. Project on "Green synthesis of TiO_2 NPs from a novel plant extract and application as photocatalyst for the remediation of industrial wastewater" [Ongoing research]

Training, Workshops, Seminars, and Conferences

1. 4 weeks in-plant training (internship) in TSP Complex Ltd.
2. 4 weeks of training in the Operation and Process Technology Department, TICI, Narsingdi.
3. Poster Presentation in "International Conference on Environmental Protection for Sustainable Development, 2022".
4. Oral Presentation in "International Conclave on Materials, Energy & Climate, 2022".

List of Publications in Reputed Scientific Community

Title of the Article	Name of the Journal and Publisher	DOI	Publication Date
1. Microbial Safety and Antimicrobial Resistance Patterns of Popular Street Foods in Gopalganj, Bangladesh	Journal of Food Protection **[I.F.-3.7]**, Elsevier	10.1016/j.jfp.2026.100820	25 May, 2026
2. Magnetic alginate-based composites for wastewater treatment: synthesis, performance, and environmental applications	Separation and Purification Technology **[I.F.-9.1]**, Elsevier	10.1016/j.seppur.2026.138619	22 May, 2026
3. Distribution, source, and risk analysis of PAHs and trace elements in roadside soils of Dhaka-Bhanga expressway: a case study	Environmental Monitoring and Assessment **[I.F.-3.0]**, Springer Nature [Switzerland]	10.1007/s10661-026-15461-4	11 May 2026
4. Graphitic C_3N_4-reinforced poly (methyl methacrylate) films for UV-shielding	Materials Chemistry and Physics **[I.F.-4.7]**, Elsevier	10.1016/j.matchemphys.2026.132492	5 April 2026
5. Sustainable Congo red (CR) and hexavalent chromium [Cr (vi)] removal using graphene functionalized aminated lignin composite: mechanistic and reusability insights	RSC Advances **[I.F.-4.6]**, Royal Society of Chemistry (U.K)	10.1039/D5RA08641H	16 March 2026
6. Natural polymer-inorganic composites for biomedical uses	**Book:** Natural Composites for Biomedical Applications **Publisher:** Woodhead Publishing [Elsevier]	10.1016/B978-0-323-95754-0.00002-X	1 March 2026
7. Chitosan/MXene Biodegradable Films for Sustainable UV-Shielded Food Packaging Application	Packaging Technology and Science **[I.F.-3.7]**, John Wiley and Sons	10.1002/pts.70057	7 January 2026

8. Transparent and flexible MXene-chitosan nanocomposite film for effective UV and high-energy blue light shielding applications	RSC Sustainability **[I.F.-4.9]**, Royal Society of Chemistry (U.K)	10.1039/D5SU00271K	19 May 2025
9. Plant extract-mediated green-synthesized CuO nanoparticles for environmental and microbial remediation: a review covering basic understandings to mechanistic study	Nanoscale Advances **[I.F.-4.7]**, Royal Society of Chemistry (U.K)	10.1039/D5NA00035A	19 March 2025