

Personal Profile



1. Name (in Block Letters) : **Dr. BIKASH CHANDRA MUSHAHARY**
2. Fathers' Name : Lt. Rapendra Mushahary
3. Date and Place of Birth : 29/10/1994
4. Sex : Male
5. Educational Qualification : Ph.D. (Tezpur University), M.Sc. (GU)
6. Department : Chemistry
7. Current Designation : Assistant Professor
8. Date of joining in the Institution : 02-06-2025
9. Nationality : Indian
10. Caste : Bodo
Kochari (ST-P)
11. Address for correspondence : Vill/Town- Nikashi, P.O- Mushalpur
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12. Permanent Address : Vill- Pundibari, P.O- Nayekgaon
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14. Academic Qualifications (HSLC till Post Graduation):

Examination	Name of the Board/ University	Year of Passing	Division/ Class/ Grade	Subject
HSLC	CBSE	2011	First	Eng, Hindi, S.Science, G.Science, Math
HSSLC	CBSE	2013	First	Eng, Physics, Chem, Math, Informatic Practice
B.Sc.	GU	2016	First	Chemistry(M), Phy, Math
M.Sc.	GU	2018	First	Chemistry
JAM	-	2016	-	Chemistry
NET/JRF		2017		Chemistry

15. Research Degree:

Degrees	Title of Thesis/Dissertation	Date of Award/Notification	Name of University
Ph.D.	Methodological Development for Sensing of Fluoride ion in Aqueous Medium Using Organic Probe Molecules	18 th December, 2024	Tezpur University

16. Period of teaching experience:P.G. Classes (in years) : **1.6 yrs**U.G. Classes (in years) : **2 yrs****17. Field of Specialization under the Subject/Discipline (if any): Organic Chemistry & Material Science****18. OP/FIP/RC/FDP/STC/Training Courses etc. attended:**

Sl. No	Title of the FDP / professional development / administrative training program	Dates (from-to) (DD-MM-YYYY)	Organized By	Link to relevant document / brochure / List of participants/report hosted on official institutional website
1	State Level Workshop on “Latest UGC Guidelines & Building Academic Future”	30 th June 2025	Gyanpeeth Degree College	
2	Faculty Development Programme on “ Communication and Presentation Skills ”	26 th August, 2020 to 30 th August, 2025	Gyanpeeth Degree College	
3	UGC-MMTTC Faculty development Program	9 th -10 th October 2025	Kokrajhar University	
4	UGC-MMTTC Faculty development Program	9 th -10 th March 2026	Gauhati University	

19. Research, publications and academic contributions:**(i) Published Papers in Journals:**

Sl. No	Title of the paper	Journal Name	ISSN / ISBN No	Impact, if any	No. of Co-author	Whether you are the main Author	Month and Year of Publication	DOI link
1.	Rational design of bay-annulated indigo (BAI)-based oligomers for bulk heterojunction organic solar cells: a density functional theory (DFT) study	ACS Omega	2470-1343	5.2	2	2 nd	3 rd April 2020	https://doi.org/10.1021/acsomega.0c00784
2.	Exploring in situ Ni (II) complexation of pyrrole-benzimidazole ligands towards colorimetric sensing of fluoride ion in aqueous medium	Results in Chemistry	2211-7156	5.8	3	2 nd	5 th January 2023	https://doi.org/10.1016/j.rechem.2023.100927
3.	Transition metal complexation assisted stabilization of the deprotonated organic moiety: A strategy for colorimetric and electrochemical recognition of fluoride ion in water	Inorganic Chemistry Communication	1387-7003	5.9	6	1 st	August, 2024	https://doi.org/10.1016/j.inoche.2024.112560

4.	In Situ Ni(II) Complexation Induced Deprotonation of Bis-Thiourea-Based Tweezers in DMSO–Water Medium: An Approach toward Recognition of Fluoride Ions in Water with Organic Probe Molecules	ACS Omega	2470-1343	5.2	4	1 st	25 th June 2024	https://doi.org/10.1021/acsomega.4c00624
5.	A fluorescein based dual optical sensor for highly selective and sensitive fluoride detection in 100% water medium	RSC: Analytical Methods	1759-9679	3	6	1 st	4 th July, 2025	https://doi.org/10.1039/d4ay02287d
6.	Perylene tetracarboxylate dye-based colorimetric and fluorometric sensor for ppb-level fluoride detection in water	NJC	1369-9261	2.6	4	1 st	24 th February, 2025	https://doi.org/10.1039/d4nj05434b
7.	Exploring optical, dielectric and transport properties in PVDF films for advanced applications	Material Chemistry and Physics	1879-3312	5.2	5	3 rd	15 th Feb, 2025	https://doi.org/10.1016/j.matchemphys.2024.130227

8.	Optimization of Conventional and Supercritical Fluid Extraction of Lycopene Rich Extract from Heiyai (<i>Elaeagnus latifolia</i> L.)	Food Analytical Methods	1936-9751	3.2	2	2 nd	19 th Feb, 2025	https://doi.org/10.1007/s12161-024-02649-y
9.	Vigna mungo (L.) Hepper as Heterogeneous Catalyst for Generation of Biodiesel from a Mixture of Multiple Oil Feedstocks.	International Journal of Energy Research	1099-114X	4.2	6	3 rd	25 th May, 2024	doi.org/10.1155/2024/7407501 Digital Object Identifier (DOI)
10.	<i>Musa champa</i> ash extract modified bentonite clay (MCA@Bentonite) as potential catalyst for biodiesel synthesis from used cooking oil	Sustainable Chemistry One World	2950-3574		7	No	4 th March, 2026	doi.org/10.1016/j.scowo.2026.100206

ii) Book Chapters

1. Designing Chemosensors for fluoride detection. 2021, Weser Book. ISBN: **978-3-96492-236-6**.
2. Azulene-Based Porous Materials: Synthesis and Applications. 2026, Wiley Book. ISBN: **978-1394159154**

iii) Conferences Attended

1. Mushahary, B.C. and S. P. Mahanta, DETECTION OF FLOURIDE IN AQUEOUS MEDIUM USING *bis*-THIOUREA TWEEZERS via Ni^{2+} METAL COMPLEXATION, National seminar on “Sustainability, Medicine and Clear energy,” Tezpur University, Tezpur, 1st March, 2022.
2. Mushahary, B.C. and S. P. Mahanta, DETECTION OF FLOURIDE IN AQUEOUS MEDIUM USING THIOUREA BASED PROBE via Ni^{2+} METAL COMPLEXATION, “National conference on “Advances in sustainable chemistry and material sciences”, Bodoland University, Kokrajhar, 29th – 30th April, 2022.
3. Mushahary, B.C. and S. P. Mahanta, Benzothiazole based optical sensor for the detection of fluoride in aqueous medium, Internal national Symposium on “Emerging Trends in Chemical Sciences”, NEHU, Shillong, 2nd – 4th March, 2023.
4. Mushahary, B.C. and S. P. Mahanta, In-Situ Ni(II) metal complexation induced deprotonation of Thiourea based probe enhances the colorimetric fluoride recognition in water, Internal national conference on “Recent advance in Mathematical, Physical and Chemical Sciences”, MZU, Mizoram, 21st – 23rd February, 2024.



Signature