


PERSONAL PROFILE

Personal Information		
Name	Dr. Pranish Bomzan	
Designation	Assistant Professor (W.B.E.S.)	
Date of Joining (Service)	6 th October, 2020	
Department	Chemistry	
Specialization	Physical Chemistry	
Area of Research Interest	Molecular Recognition and Supramolecular Chemistry	
Local Address	Gorubathan Government College, P.O. - Fagu, Kalimpong, West Bengal, India, Pin – 735231	
Permanent Address	Rangbull Old Railway Siding Upper, P.O. Rangbull, Pin – 734123, Darjeeling, West Bengal, India	
Contact Number	+91 9734980558	
Email	bomzanpranish@gmail.com	

Educational Qualification

Qualification	Institution	University/ Board	Year of Passing	Grade/ Division
Ph. D.	University of North Bengal	University of North Bengal	2022	–
M. Sc. in Chemistry	University of North Bengal	University of North Bengal	2015	A ⁺
B. Sc. Honours in Chemistry	Darjeeling Government College	University of North Bengal	2013	I
Higher Secondary	St. Robert's High School	West Bengal Council of Higher Secondary Education	2009	A ⁺
Secondary	Ghoom Boys' Higher Secondary School	West Bengal Board of Secondary Education	2007	I

Achievements

<ul style="list-style-type: none">National Eligibility Test (CSIR-JRF), 2015
<ul style="list-style-type: none">Graduate Aptitude Test in Engineering (GATE), 2016
<ul style="list-style-type: none">National Eligibility Test (UGC-JRF), 2017

Professional Experience

Name of the Institution	Designation	From	To
Malda College	Assistant Professor	04.08.2020	30.09.2020
Gorubathan Government College	Assistant Professor	06.10.2020	Till Date

Research Guidance

Degree	Number of Researchers Awarded	Number of Researchers Submitted	Numbers of Researchers Pursuing
Ph. D.	–	–	1

Faculty Development Programme

Sl. No.	Year	Name of the Programme participated (OP/RC/FEP/Others)	Organized by
1.	2021	Faculty Induction Programme	Osmania University
2.	2022	Refresher Course in Chemistry	University of Calcutta

Research Articles in International Journals

1. Inclusion of tyrosine derivatives with α -cyclodextrin in aqueous medium of various pH conditions by surface tension, conductance, UV–Vis and NMR studies. *Journal of Molecular Liquids*, 230 (2017) 104-112.
2. Studies of solvation behaviour of LiI prevailing in diverse solvent systems conductometrically and spectrometrically supported by ab initio technique. *Chemical Physics Letters*, 671 (2017) 7-14.
3. Probing Host-Guest inclusion complexes of Ambroxol Hydrochloride with α -& β - Cyclodextrins by physicochemical contrivance subsequently optimized by molecular modeling simulations. *Chemical Physics Letters*, 748 (2020) 137372.
4. Molecular encapsulation study of indole-3-methanol in cyclodextrins: Effect on antimicrobial activity and cytotoxicity. *Journal of Molecular Structure*, 1225 (2021) 129093.
5. Inclusion of an antiplatelet agent inside into β -cyclodextrin for biochemical applications with diverse authentications. *Food Chemistry Advances*, 1 (2022) 100015.
6. An extensive investigation on supramolecular assembly of a drug (MEP) with β CD for innovative applications. *Journal of Molecular Liquids*, 344 (2021) 117977.
7. Exploring β -CD grafted GO nanocomposites with an encapsulated fluorescent dye duly optimized by molecular docking for better applications. *Journal of Molecular Liquids*, 329 (2021) 115481.
8. Synthesis and Characterization of an Inclusion Complex of DL-Aminoglutethimide with β -Cyclodextrin

- and Its Innovative Application in a Biological System: Computational and Experimental Investigations. *ACS Omega*, 2022, 7, 13, 11208–11216.
- Biological evaluation of a natural steroid ester, Stigmasta-5 (6), 22 (23)-dien-3-beta-yl acetate isolated from the Himalayan herb *Astilbe rivularis* as potential antitumor agent. *Chemico-Biological Interactions*, 360 (2022) 109935.
 - Exploring inclusion complexes of amino acids with *p*-sulfonatocalix[4]arene by experimental and computational approach. *Journal of Molecular Structure*, 1271 (2023) 133981.
 - A combined experimental and theoretical study on *p*-sulfonatocalix[4]arene encapsulated sulisobenzone. *New Journal of Chemistry*, 2023, 47, 1045-1049.
 - Molecular Assembly of Rhodanine with Torus-Shaped Cyclodextrins and Their Innovative Applications by Physicochemical Contrivance Simultaneously Optimized by Computational Study. *Chemistry Select*, 2023, 8, e202300417.
 - Host–Guest Encapsulation of RIBO with TSC4X: Synthesis, Characterization, and Its Application by Physicochemical and Computational Investigations. *ACS Omega*, 2023, 8, 7, 6778–6790.
 - Probing Supramolecular Complexation of the Drug Benserazide Hydrochloride with Hydroxypropyl- β -Cyclodextrin by Experimental and Computational Studies. *Journal of Molecular Structure*, 1294 (2023) 136329.
 - Exploring the Inclusion Complex of an Anticancer Drug with β -Cyclodextrin for Reducing Cytotoxicity Toward the Normal Human Cell Line by an Experimental and Computational Approach. *ACS Omega*, 2023.
 - Physicochemical studies of some bioactive molecules in aqueous solution of tetrabutylammonium methanesulphonate (TBAMS) to investigate assorted molecular interaction at different temperatures simultaneously optimized by computational approach. *Journal of Molecular Liquids*, 2023.
 - Exploring Brilliant Blue FCF Assembly with Beta Cyclodextrin, Characterizations and Applications in Biological Systems Using Physicochemical and Computational Methods. *ChemistrySelect*, 9, 2024.

Book Chapters

- Investigation of Solution Behaviour of Potassium Halides in Aqueous Solution of L-Proline at Different Temperatures: A Physicochemical Approach. *Progress in Chemical Science Research*, 5, 57–73.

Paper Presentation: Conferences/Seminars/Symposia/Workshops

- Presented a paper titled ‘Molecular encapsulation study of indole-3-methanol in cyclodextrins: Effect on antimicrobial activity and cytotoxicity’ in National Web-based Conference on “Environmental Determinism, Diverse Pollutions, Sources, and Controlling Management through Sciences and Humanities” organized by Alipurduar University on 22nd and 23rd March, 2021.