

Faculty Profile

Santipur College

Department of Chemistry

General Information



Name	Dr. Namrata Ray
Designation	Assistant Professor in Chemistry
Date of joining	07.08.2020
Address	VIP Road, Kolkata 700052
Contact E-mail	nr.2610@gmail.com
Academic Qualification	M.Sc, Ph.D

Research And Publication

Area of Specialization			Bio-organic Chemistry- at the interface of Chemistry and Biology
Research interest			Bio-organic Chemistry, Surface Chemistry, Nanochemistry
Paper Publication			
Sl. No.	Date	Title	Publisher / Other Information
1	1/1/2022	Design of a novel Fischer carbene complex which can facilitate thiol mediated site-specific protein immobilization	Elsevier Results in Chemistry; Volume 4, Page 100419 IF:4.2 (2025) Author: Namrata Ray
2	7/2019	Understanding the riboflavin biosynthesis	Wiley Medicinal Research Reviews; Volume-39,

		pathway for the development of antimicrobial agents	Page1338-1371 IF: 11.6 (2025) Authors: Biswajit Kundu, Dipayan Sarkar, Namrata Ray, Arindam Talukdar
3	2016	Fischer carbene mediated covalent grafting of a peptide nucleic acid on gold surfaces and IR optical detection of DNA hybridization with a transition metalcarbonyl label	Elsevier Applied Surface Science; Volume: 385; Page: 47-55 IF:6.9 (2025) Authors: P.Srivastava,M.Ghasemi, N.Ray, A.Sarkar, . Kocabova; S. Lachmanova; M. Hromadova; S. Boujday; S. Cauteruccio; P. Thakare; E. Licandro; C. Fosse; M. Salmain
4	21/5/2014	Design of heat shock-resistant surfaces to prevent protein aggregation: Enhanced chaperone activity of immobilized α -Crystallin	ACS Bioconjugate Chemistry; Volume 25; Page 888-895 IF: 3.9(2024) Authors: Namrata Ray , Sarita Roy, Santiswarup Singha, Bappaditya Chandra, Anjan Kr Dasgupta, Amitabha Sarkar
5	2014	Fischer carbene complex with hydrophilic OEG-tentacles decorates antibody surface with in situ generated gold nanoparticles for rapid, sensitive, visual detection of proteins	RSC Analytical Chemistry; Volume 6; Page: 351-354 IF: 6.7 (2025) Authors: Namrata Ray, Sudeshna Sawoob and Amitabha Sarkar
6	2011	Covalent immobilization of active lysozyme on Si/glass surface using alkoxy Fischer carbene complex on SAM	RSC Organic and Biomolecular Chemistry; Volume:9; Page:5123-5128 IF: 2.7(2024) Authors: Piyali Dutta, Namrata Ray, Sarita Roy, Anjan Kr. Dasgupta, Othman Bouloussac and Amitabha Sarkar
7	2011	Engineering bioactive surfaces with Fischer carbene complex: protein A on self-assembled monolayer for antibody sensing	ACS Bioconjugate Chemistry; Volume 22; Page 1202-1209 IF: 3.9(2024) Authors; Piyali Dutta, Sudeshna Sawoo, Namrata Ray, Othman Bouloussa, Amitabha Sarkar
Talks/ Paper or Poster Presentations/ Chairing Sessions/ Seminar/ Webinar/ Workshop/ RC/ OP/ Short term Course/ Any Other attended			

Sl. No.	Date	Title/ Event	Place/Organizer/ Other information
1	30.05.2022	Careers in Chemistry	Talk Bethune College
2	04.07.2022 - 06.08.2022	Online Faculty Induction Programme	Orientation Programme HRDC-Aligarh Muslim University
3	14.09.2023 - 28.09.2023	Online Refresher Course in Chemistry	Refresher Course HRDC-Aligarh Muslim University

Institutional Responsibilities

Portion of syllabus allotted		
Semester	Major/ Minor/ SEC/ MDC/ Other	Topic allotted
Semester 1	Minor	Fundamentals of Organic Chemistry; Stereochemistry ; Nucleophilic Substitution and Elimination Reactions ; Aliphatic Hydrocarbons
	MDC	Chemistry in Everyday Life: Vitamins, Drugs
	SEC	Pharmaceutical Chemistry: Drugs & Pharmaceuticals, Fermentation, Hands on Practical
Semester 2	Major	Organic –I-Bonding and Physical Properties General Treatment of Reaction Mechanism – I
	Minor	Fundamentals of Organic Chemistry; Stereochemistry ; Nucleophilic Substitution and Elimination Reactions ; Aliphatic Hydrocarbons

Semester 3	MDC	Basic Idea of Clinical Biochemistry-Biomolecules
Semester 4	Major	Organic II:Substitution and Elimination Reactions: General Treatment of Reaction Mechanism II
Semester 5	Major	Organic III-Theory and Practical
Semester 6	Major	Organic IV-Theory and Practical
Institutional Committees		
Sl. No.	Name of Committee	Member / Convener
1	IQAC	Member
2	Library Committee	Member
3	Leave Committee	Member
4	NCC Girls' Wing	Member
5	NSS Committee	Member
6	Technological Upgradation Committee	Member
7	Magazine Committee	Member
8	Grievance Redressal Committee	Member
9	Gender and Sexual harassment Committee	Member