



# TUFANGANJ MAHAVIDYALAYA

Accredited by NAAC with Grade B

P.O. Tufanganj Newtown; Dist. Cooch Behar, Pin Code-736160, West Bengal, India

## Department of Chemistry



**Dr. Babli Roy**

**M.Sc., Ph.D.**

**Assistant Professor**

**Date of Joining-16.04.2010**

### PERSONAL DATA & CONTACT INFORMATION:

**Name:** Dr. Babli Roy

**Designation:** Assistant Professor

**Address:** Department of Chemistry, Tufanganj Mahavidyalaya, Tufanganj Newtown, Cooch Behar-736160, West Bengal, India

**Affiliated University:** Cooch Behar Panchanan Barma University (CBPBU)

**Residential Address:** East Arabinda Nagar, Jalpaiguri-735101, West Bengal, India

**Email:** [babli1j83@gmail.com](mailto:babli1j83@gmail.com)

**Contact Number:** 9732763672

**Digital Platform:**

<https://in.linkedin.com/in/babli-roy-1j84>

<https://www.researchgate.net/profile/Babli-Roy>

<https://northbengal.academia.edu/BabliRoy>

<https://tufanganjmahavidyalaya.academia.edu/BabliRoy>

<https://scholar.google.co.in/citations?user=Ix5I08QAAAAJ&hl=en>

### EDUCATION DETAILS:

- 2004:** B.Sc. with First Class in Chemistry Honours from the *Ananda Chandra College of Arts & Science, Jalpaiguri* under the affiliation of the *University of North Bengal, Darjeeling*.
- 2006:** M.Sc. with First Class obtaining distinction marks in Chemistry Honours from the *University of North Bengal, Darjeeling*.
- 2005:** Qualified in the 6<sup>th</sup> Regional Level Selection Test (Assistant Teacher), 2005 in Chemistry (H/PG) under the *West Bengal School Service Commission (WBSSC)*.
- 2008:** Awarded with CSIR-NET-JRF under *HRDC-CSIR-UGC*.
- 2017:** Ph.D. in Chemistry from the *University of North Bengal*.

### **TITLE OF Ph.D. THESIS:**

*“Studies on Solid-Phase Organic Reactions & Catalysis: Greener Approaches”*

**SUBJECT SPECIALIZATION:** Organic Chemistry

### **RESEARCH EXPERIENCE:**

**2009–2010:** Research Scholar with CSIR-NET-JRF at the Department of Chemistry, University of North Bengal.

**2014–2016:** Teacher Fellow under UGC-FDP at the Department of Chemistry, University of North Bengal.

### **WORKING EXPERIENCE:**

**2006 – 2009:** Assistant Teacher (Permanent) in Chemistry (H/PG) at Sriknatabati Shikshaniketan (H.S.), Raghunathganj, Murshidabad -742225.

**2014 –2016:** Teacher Fellow under UGC-FDP at the Department of Chemistry of the University of North Bengal.

**2010–Present:** Assistant Professor in Chemistry (Full-time) at the Department of Chemistry, Tufanganj Mahavidyalaya.

### **AREA OF TEACHING:**

- Organic chemistry (CORE-1, CORE-4, CORE-7, CORE-10, CORE-12) for Honours Courses; DSC and GE Programme Courses)
- Green Chemistry (DSE-4)
- Pharmaceutical Chemistry (SEC-2)
- Chemistry of Cosmetics and Perfumes (SEC-4)

### **AREA OF RESEARCH AND INTERESTS:**

- Synthetic Organic Chemistry
- Heterogeneous Catalysis
- Green Chemistry
- Graphene Chemistry
- Carbon-Based Materials
- Pharmaceutical Chemistry
- Cosmetic Chemistry
- Environmental Chemistry
- Organosulfur compounds

## EXPERIENCE IN INSTRUMENT HANDLING:

- UV-Vis Spectrophotometer
- FTIR Spectrophotometer
- HPLC (High-Performance Liquid Chromatography)
- DLS instrument
- pH meter, Conductometer, Calorimeter
- 

## PROFESSIONAL/ADMINISTRATIVE EXPERIENCE:

- Member, **UG Board of Studies (BOS)** in Chemistry, CBPBU.
- Member, **Governing Body**, Tufanganj Mahavidyalaya.
- Secretary, **Teachers' Council**, Tufanganj Mahavidyalaya (2018-2019)
- Administrator, **Admission Committee**, Tufanganj Mahavidyalaya (2020-2021 Session)
- Member, **IQAC**, Tufanganj Mahavidyalaya
- Member, Library Development Committee, Tufanganj Mahavidyalaya
- HOD, Department of Chemistry, Tufanganj Mahavidyalaya
- Regular Head Examiner, Moderator and Paper setter of CBPBU

## LIFE MEMBER:

- Association of Chemistry Teachers (ACT), Homi Bhabha Centre for Science Education (TIFR), Mumbai

## PUBLICATION DETAILS:

- i. "Silica: An efficient catalyst for one-pot regioselective synthesis of dithioethers" Samir Kundu, **Babli Roy** and Basudeb Basu, *Beilstein J. Org. Chem.*, **2014**, *10*, 26–33. **Impact Factor-2.88**
- ii. "Graphene Oxide (GO)-catalyzed chemoselective thioacetalization of aldehydes under solvent-free conditions" **Babli Roy**, Debasish Sengupta and Basudeb Basu, *Tetrahedron Lett.*, **2014**, *55*, 6596–6600. **Impact Factor-2.45**
- iii. "Graphene oxide (GO) or reduced graphene oxide (rGO): efficient catalysts for one-pot metal-free synthesis of quinoxalines from 2-nitroaniline" **Babli Roy**, Sujit Ghosh, Pranab Ghosh, Basudeb Basu, *Tetrahedron Lett.*, **2015**, *56*, 6762–6767.

### **Impact Factor-2.45**

iv. “Reduced Graphene Oxides (rGOs) using Nature-based reducing Sources: Detailed Studies on Properties, Morphologies and Catalytic Activity” **Babli Roy**, Yunke Jung and Basudeb Basu, *Current Graphene Science (Bentham Science Publishers)*, 2017, 1, 71–79.

v. “Sustainable and Site-Selective C-H Sulfonylation of Aromatic Compounds with Thiol using Catalytic Graphene Oxide and NaI” Prasun Chowdhry, **Dr. Babli Roy** and Prof. Dr. Basudeb Basu, *Asian Journal of Organic Chemistry*, 2017, 6, 1569–1574.  
**Impact Factor-3.319**

vi. “Microwave-assisted Formation of Organic Disulfides of Biochemical Significance” Debasish Sengupta, **Babli Roy**, and Basudeb Basu, *Curr. Med. Chem.* 2016, 23, 1–11.  
**Impact Factor-3.772**

<b>Citations</b>	<b>123</b>
<b>h-index</b>	<b>5</b>
<b>i10-index</b>	<b>4</b>

### **INVITED LECTURES AS A RESOURCE PERSON:**

<b>Sl. No.</b>	<b>Title of the invited lecture/ paper</b>	<b>Title of Conference/ Seminar with date</b>	<b>Organized by</b>	<b>Whether International / National/ State or University</b>
1	<i>“The wonder material of the 21st century: Graphene and Graphene-based Materials A basic understanding”</i>	“Basic Understanding of Science” 12.01.2022	Department of Chemistry & Physics, IQAC, Mathabhanga College	<b>National</b>
2	<i>“Graphene oxide (GO): A convenient oxidant as well as a sustainable solid acid catalyst for diverse organic reactions: recent progress and future prospects”</i>	“Recent Developments in Chemistry” 23.12.2021	PG, Department of Chemistry, IQAC Kokrajhar Govt. College, Kokrajhar	<b>National</b>
3	<i>“A sustainable solid carbocatalyst for diverse organic reactions”</i>	“Advanced Topics in Chemical Sciences” (15.05.2020 to 21.05.2020)	Nallamuthu Gounder Mahalingam College (Bharathiar University), Tamil Nadu	<b>International</b>
4	<i>“Crisis in Science Education during the Lockdown Period and avenues to overcome the predicament”</i>	“Covid-19: Shiksha Babosthar Sankat O uttoraner path”, 05.07.20	Department of Bengali & Women’s Cell, Tufanganj Mahavidyalaya	<b>State</b>

## PAPER PRESENTATION IN VARIOUS SEMINARS/WORKSHOPS:

Sl. No.	Title of the invited lecture/ paper	Title of Conference/ Seminar with date	Organized by	Whether International / National/ State or University
1	<i>“Carbocatalysis: A glance of the history of Carbon as a green heterogeneous catalyst in Organic Synthesis”</i>	International Seminar on “The History of Science & Technology-A journey from Metal age to E-Age March 12, 2019	Department of Chemistry & IQAC, Alipurduar College In collaboration with the College of Science and Technology, Royal University of Bhutan, Bhutan	<b>International</b>
2	<i>“Metal-free C(sp<sup>2</sup>)-H bond activation: Application of GO/NaI in C-S bond formation”</i>	“19 <sup>th</sup> CRSI National Symposium in Chemistry” July 14 -16, 2016	Department of Chemistry, University of North Bengal	<b>National</b>
3	<i>“In quest of greener approaches towards reduction of graphene oxide and subsequent catalytic applications”</i>	“FRONTIERS IN CHEMISTRY-2015”	Department of Chemistry, University of North Bengal	<b>National</b>
4	<i>“Reduced Graphene Oxide (rGO) – an eco-friendly and reusable carbocatalyst for the synthesis of biologically potent N-based heterocycles”</i>	“FRONTIERS IN CHEMISTRY-2015” January 23-24, 2015	Department of Chemistry, NBU	<b>National</b>
5	<i>“Graphene oxide (GO) – an efficient carbocatalyst for the one-pot tandem reduction and cyclisation for quinoxaline synthesis”</i>	National Symposium on Recent Trends and Presentation in Chemistry [RTPC-2015] January 23-24, 2015	Department of Chemistry, National Institute of Technology, Sikkim	<b>National</b>
6	<i>“Pd/Cu bimetallic nanoparticles soaked on poly-ionic resins: an excellent heterogeneous catalyst for Suzuki-Miyaura and Heck coupling reactions”</i>	National Seminar on “Frontiers in Chemistry 2014” March 11-12, 2014	Department of Chemistry University of North Bengal	<b>National</b>
7	<i>“Recent Developments in Organic synthesis using Greener Methodologies”</i>	Current Trends in Chemistry, 2012	Union Christian Training College, Beharampur, Murshidabad	<b>National</b>
8	<i>“Role of Additives in Staggering Stereoselective Switch in Alkyne Hydrothiolation”</i>	12 <sup>th</sup> CRSI National Symposium in Chemistry (NSC-12) & 4 <sup>th</sup> CRSI-RSC Symposium in Chemistry February 4-7, 2010	Indian Institute of Chemical Technology, Hyderabad	<b>National</b>

**Various Training Courses (OP/RC), Teaching Learning-Evaluation Technology Programmes, and Faculty Development Programmes (FDPs) Completed:**

<b>Sl. No.</b>	<b>Name of the Programme with dates</b>	<b>Duration</b>	<b>Organized by</b>
1	Orientation Programme (OP) 23/11/2012 to 20/12/2012	28 Days	NBU-ASC, HRDC
2	Refresher Course (RC) in chemistry 01/11/2016 to 21/11/2016	21 Days	NBU-ASC-HRDC
3	Online Refresher Course in Chemistry for Higher Education 01/09/2019 to 31/12/2019	16 Weeks	SWAYAM, MHRD, UGC, AICTE
4	Online FDP on “Managing Online Classes & Co-creating MOOCs” 20/04/2020 to 06/05/2020	2 Weeks	TLC, Ramanujan College, University of Delhi, MOE, PMMMNMTT
5	Online FDP on “Multimedia enriched e- Content Development” 21/05/2020 to 26/05/2020	1 Week	GAD-TLC, MHRD, PMMMNMTT
6	Online FDP on “Nanomaterials Characterization Techniques and Results Analysis Methodology: Ideas, Innovations & Initiatives (Organic Chemistry)”	5 Days	SPPU, UGC-MHRD, PMMMNTT
7	Online FDP/RC on ‘Enhancing Quality of Chemistry Education in India/ 25/02/2021 to 03/03/2021	1 Week	GAD-TLC, MOE, PMMMNMTT
8	Online FDP/ (equivalent to Refresher Course) in “Chemical Sciences” 01/02/2022 to 15/02/2022	2 Weeks	TLC, Ramanujan College, University of Delhi, MOE, PMMMNMTT
9	Online FDP on “SAFER AND GREENER CHEMISTRY LABS” 19/07/2022 to 25/07/2022	1 Week	GAD-TLC, MOE, PMMMNMTT
10	Refresher Course in Chemistry “Teaching and Research in Chemistry: Challenges and Opportunities” 31 <sup>st</sup> October 2022 to 15 <sup>th</sup> November 2022	2 Weeks	UGC-HRDC, NEHU, Shillong, Meghalaya

Sd/-  
**(Dr. Babli Roy)**  
Assistant Professor  
Tufanganj Mahavidyalaya