

## Curriculum vitae

**Dr. Ramij Raja Mondal**

**Date of Birth:** 05.07.1989

**Qualification:** M.Sc., Ph.D.

**Specialization:** Organic Chemistry

**Designation:** Assistant Professor

**E-mail Id:** [ramiizraja@gmail.com](mailto:ramiizraja@gmail.com) and  
[ramiirajachem@gmail.com](mailto:ramiirajachem@gmail.com)

**Mobile No.:** 9875383350/8509987038



**Service:** W.B.E.S.

**Date of Joining in in W.B.E.S:** 10.12.2019

**Date of Joining in GGDC, Tehatta:** 10.12.2019

**Teaching Experience:** Assistant Professor of Chemistry at Government General Degree College, Tehatta, since December 10, 2019.

**Research Experience:** My research experience primarily focused on constructing C-C, C-N, and C-O bonds through C-H activation and functionalization using both metallic and non-metallic (i.e., green) approaches. Additionally, I worked on developing new methodologies for photo-redox catalysis using visible light and explored hypervalent iodine chemistry from different perspectives.

**Research Interest:** My future research aims to develop novel catalytic systems utilizing first-row transition metals (Fe/Co/Ni/Cu) in conjunction with photoredox catalysis under visible light. The focus will be on selectively activating various C-C and C-hetero bonds to facilitate direct cross-coupling reactions (C-C and C-N), as well as C-H bond functionalization, to construct valuable organic frameworks.

## Academic Qualification:

<b>Ph. D.</b> University of Calcutta, Kolkata, India	<b>2019</b>
<b>M.Sc.</b> Ramakrishna Mission Residential College (University of Calcutta), India	<b>2013</b>
<b>B.Sc.</b> Ramakrishna Mission Vivekananda Centenary College, University of Calcutta, India	<b>2011</b>
<b>Higher Secondary</b> West Bengal Council of Higher Secondary Education	<b>2007</b>
<b>Secondary</b> West Bengal Board of Secondary Education	<b>2005</b>

## Doctoral Research:

**Research work (thesis title):** *“Development of Robust Coupling Catalysis Using Assembly of Compounds: Direct Synthesis of Functional Molecules”*

[Supervisor: Prof. Dilip Kumar Maiti, Organic Chemistry Division, University of Calcutta, Kol-09]

## Academic Achievements/Awards received till date:

- **2013**, qualified Graduate Aptitude Test in Engineering (GATE)
- **June 2013**, qualified Joint CSIR-UGC Junior Research Fellowship (**JRF**) and Eligibility for Lectureship- National Eligibility Test (NET) ( Rank-80)
- **December 2013**, qualified Joint CSIR-UGC Junior Research Fellowship (**JRF**) and Eligibility for Lectureship- National Eligibility Test (NET) ( Rank-67)
- **2013-2015**: Junior Research Fellowship (**JRF**) awarded by University Grants Commission (UGC), India.
- **2015-2018**: Senior Research Fellowship (**SRF**) awarded by University Grants Commission (UGC), India.

### Poster presentation in Symposium:

1. Presented Poster in **International Conference on Chemistry for Human Development (ICCHD-2018)**, Jointly Organized by Professor Asima Chatterjee Foundation (PACF) with the University of Calcutta and Heritage Institute of Technology, Kolkata-700107 in **8-10<sup>th</sup> January 2018**.
2. Presented Poster in **National symposium facets of chemistry in biology (FOCB) (2016)**, February 22-23, **2016** by St. Xavier's College.

### Publication: (Paper published till date)

1. CuBr-ZnI<sub>2</sub> Combo-Catalysis for Mild CuI-CuIII Switching and sp<sup>2</sup> C-H Activated Rapid Cyclization to Quinolines and Their Sugar-Based Chiral Analogues: A UV-Vis and XPS Study  
**Ramij R. Mondal**, Saikat Khamarui, and Dilip K. Maiti\*, **ACS Omega 2016, 1, 251-263**.
2. Photocatalytic generation of nitrenes for rapid diaziridination  
**Ramij R. Mondal**, Saikat Khamarui and Dilip K. Maiti\*, **Organic Letters 2017, 19 (21), 5964-5967**. (*ACS editor's choice*)
3. Reactant cum solvent water: generation of transient λ<sup>3</sup>-hypervalent iodine, its reactivity, mechanism and broad application  
Saikat Khamarui, Rituparna Maiti, **Ramij R. Mondal** and Dilip K. Maiti\*, **RSC Adv. 2015, 5, 106633106643**.
4. A new fluorescence turn-on chemosensor for nanomolar detection of Al<sup>3+</sup> constructed from a pyridine–pyrazole system  
Barnali Naskar, Kinsuk Das, **Ramij R. Mondal**, Dilip K. Maiti, Alberto Requena, Jose´ Pedro Cero´n Carrasco, Chandraday Prodhon, Keya Chaudhurie and Sanchita Goswami\*, **New J. Chem. 2018, 42, 2933-2941**.

### Attended Academic Enhancement Programme

Sl. No.	Name of the Course	Mode	Duration	Sponsoring Agency
1	Faculty Induction Programme (FIP-10)	Online	01.02.2023 to 28.02.2023	UGC-HRDC, University of Calcutta
2	Refresher Course on Chemistry (Functional Materials for Energy, Environmental and Biomedical Applications)	Online	03.10.2023 to 16.10.2023	UGC-Malaviya Mission Teacher Training Centre, Madurai Kamaraj University

I hereby declare that all the statements made above are correct to the best of my knowledge and belief.

  
(Ramij Raja Mondal)

Date: June 2024

Place: GGDC, Tehatta, West Bengal, India