

FACULTY MEMBERS' ACADEMIC PROFILE

1. **Name of the Faculty member:** Dr. Sulakshana Karmakar

2. **Designation:** Assistant Professor

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

4. **Specialization:** Organic Chemistry

5. **E-mail address:** sulakshana.karmakar@gmail.com

6. **Date of Joining in W.B.E.S.:** 27.05.2009

7. **Date of Joining in this College:** 08.01.2025

8. **Total Teaching experience at the college level:** 15 years

9. **Research interests:** Synthesis of heterocyclic compounds using environmentally benign reagents /catalysts /conditions, study of Multi Component Reactions specially of nitrogen heterocycles.

10. **Title of thesis (Ph.D.) with year:** "Studies on Reactions and Synthesis of Aromatic Heterocycles" (2010)

11. **Research guidance:** NIL

12. **Research Projects (Completed and ongoing):** NIL

13. **List of publications:**

**A) Published papers in Journals:**

1. "First isolation of both indolylcarbinols and diindolylalkanes from microwave-assisted acid (clay)-catalysed reaction of indoles with diethylketomalonate", M. Chakrabarty,\* **S. Karmakar** and Y. Harigaya, *Heterocycles*, **2005**, 65, 37-48 [ISSN: 0385-5414 (print)].

2. "Application of sulfamic acid as an eco-friendly catalyst in an expedient synthesis of benzimidazoles", M. Chakrabarty,\* **S. Karmakar**, A. Mukherji, S. Arima and Y. Harigaya, *Heterocycles*, **2006**, 68, 967-974 [ISSN: 0385-5414 (print)].

3. "One-pot formation of functionalised 2-piperidinones from arylidenecyanoacetates and methanolic ammonia *via* tandem reactions", M. Chakrabarty,\* **S. Karmakar**, S. Arima and Y. Harigaya, *Heterocycles*, **2007**, 73, 795-804 [ISSN: 0385-5414 (print)].

4. "A mild and expedient one-pot synthesis of substituted benzimidazoles in water using a phase transfer catalyst", M. Chakrabarty,\* **S. Karmakar**, R. Mukherjee, S. Arima and Y. Harigaya, *Monatshefte fur Chemie*, **2009**, 140, 375-380 [ISSN: 0026-9247].



5. "An expedient synthesis of novel 2-substituted thiazolo[4,5-*f*]isoquinolines/quinolines and benzo[1,2-*d*:4,3-*d'*]bisthiazoles and their potential as inhibitors of COX-1 and COX-2", M. Chakrabarty\*, A. Mukherji, **S. Karmakar**, R. Mukhrjee, K. Nagai, A. Geronikaki and P. Eleni, *ARKIVOC*, **2010**, xi, 265-290 [ISSN: 1551-7012 (online)].
6. "Organic Farming: Relevance and Impact on Our Society", **S. Karmakar\***, *Dialogic Space*, **2017**, Vol. VI, 82-95 [ISSN: 2347-8195].
7. "A mild synthesis of substituted pyrazoles from one-pot three component reaction of simple starting materials", **S. Karmakar\***, *Res. J. Chem. Environ.*, **2021**, Vol. 25 (5), 166-169 [E-ISSN: 2278-4527].
8. "Synthesis of Thiazoloquinolines with Diverse Molecular Skeletons: A Review", **S. Karmakar\***, *ChemistrySelect* **2023**, 8 (34), e202302796 (14 pages) [ISSN: 2365-6549(online)].

### **B) Conference Proceedings:**

1. Seminar Proceedings entitled "Bioremediation and Other Eco-Friendly Approaches to Tackle Pollution" in Environmental Pollution and Biosafety, pp. 13-23, Taurean Publications (2023) (ISBN: 978-93-95202-54-1).

### **14. Membership of Learned Societies/ Editorial Boards, etc.:**

1. Life Member of Indian Association for the Cultivation of Science
2. Life Member of Indian Science Congress Association

### **15. Patents:** NIL

### **16. Awards:** NIL

### **17. Other notable activities:** NIL

### **18. Participation in**

#### **A) Seminars/Symposia/Conferences/Workshops:**

1. Presented a poster in Two-day International Seminar on "Innovation, Expansion, Impacts and Challenges in Chemical and Biological Sciences", organised by Surendranath College on 08.01.2020 - 09.01.2020.
2. Presented a poster in One-day International Industry-Academia Interface Seminar, conducted by IQAC and the Department of Chemistry, Bethune College, Kolkata on 11.01.2020.
3. Delivered 16th Bethune College Tuesday Lecture on 30.11.2021, organised by IQAC, Bethune College on 'E-Waste: Environmental Impact and Recycling Strategies'.
4. Acted as Resource Person in the Workshops organised by Department of Chemistry under DBT Star College Scheme on - 'Hands on Training for Separation and Identification of Organic Compounds', 13.04.2022; 'Workshop on Synthesis: Conventional and Green Method', 27.04.2022 and 'Separation of Binary Mixture of Solid Organic Compounds and Identification of the Components', 08.02.2023.

5. Presented a poster entitled Biogas: A Sustainable Energy with Immense Potential in One Day National Seminar on Sustainable Energy in Today's World, organised by Department of Chemistry, Bethune College under DBT Star College Scheme on 20.02.23.

6. Delivered the 6<sup>th</sup> Lecture of 30 Hour Certificate Course in Ethics and Value Education Session: 2022-23, on 'Ethics for Medical Laboratory: Fundamental and Relevance', organised by IQAC & Ethics and Value Education Committee, Bethune College on 12.04.2023.

**B) OP/RC:**

1. Refresher Course in Chemistry: Academic Staff College, Jadavpur University; January 03, 2011 to January 22, 2011.

2. Orientation Programme: Academic Staff College, University of Calcutta; February 02, 2013 to March 02, 2013.

3. Refresher Course in Chemistry: UGC-HRDC, Jadavpur University; January 02, 2018 to January 24, 2018.

4. Interdisciplinary Refresher Course in Environmental Studies, UGC-HRDC, Jawaharlal Nehru University; September 20, 2021 to October 04, 2021.