

DR. AMRITA CHAKRABORTY

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EDUCATION

- 2015-17** **D. S. Kothari Postdoctoral Fellow**, Visva-Bharati (A Central University), Santiniketan, W.B.
Project Title: *Metal-Free C-H bond functionalization and subsequent C-C/C-heteroatom Bond Formation: Synthesis of Functionalized Heterocycles.*
- 2014-15** **Research Associate-I**, (Indian Association for the Cultivation of Science), Jadavpur, Kolkata.
Project Title: *Synthesis and Derivatization of Benzothiazine ring via Transition-Metal Catalyzed Aerobic Oxidative Coupling Reaction.*
- 2014** **Ph. D.** (Synthetic Organic Chemistry); IACS (Jadavpur University), Jadavpur, Kolkata.
Thesis Title: *Development of New Methodologies towards the Synthesis of Indole Derivatives.*
- 2008** **M.Sc.** (Chemistry); **Organic Chemistry (Spl.)**, Visva-Bharati (A Central University), Santiniketan, W.B.
- 2006** **B. Sc.** (Chemistry Honours); Bankura Sammilani College (University of Burdwan), W.B.

ACADEMIC AWARDS

- 2008** Qualified **CSIR-NET** in **Chemical Sciences** for Junior Research Fellowship (**JRF**, CSIR)
- 2009** Qualified **GATE-2009** in **Chemistry**: All India Rank: 777, Percentile: 88.25
- 2014** Postdoctoral Research Fellowship (**RA-I**, Indian Association for the Cultivation of Science)
- 2015** **UGC-Dr. D. S. Kothari Post Doctoral Fellowship** (Dept. of Chemistry, Visva-Bharati).

TEACHING EXPERIENCES

- 2017** Asst. Prof., Dept. of Chemistry, A. N. College, Patna (A constituent college of M. U., Bodhgaya) from November-2017 onwards.
- 2015-17** **Guest lecturer** in Integrated Science Education & Research Centre, Visva-Bharati (A Central University), Santiniketan, W. B., for 5 years integrated M. Sc. course (both theory and practical).

2014-15 **Guest lecturer** in UG classes (both general and honours) at Dept. of Chemistry, Netaji Nagar College for Women, University of Calcutta, W. B.

PUBLICATIONS

1. Synthesis of spiro[cyclopent[3]ene-1,3'-indoles] and tetrahydrocyclohepta[b]indoles from suitably 2,3-disubstituted indoles through sigmatropic rearrangement.
A. Chakraborty, K. Goswami, A. Adiyala and S. Sinha*
Eur. J. Org. Chem. 2013, 7117-7127.
Impact Factor: 3.344
Online ISSN: 1099-0690, Print ISSN: 1434-193X
No of Citations: 7
2. Synthesis of 3-[2-(1,3-butadienyl)]-1*H*-indoles en route to murrapanine analogue.
A. Chakraborty and S. Sinha*
Tetrahedron Lett. 2011, 52, 6635-6638.
Impact Factor: 2.397
ISSN No. 0040-4039
No of Citations: 8
3. Palladium catalyzed synthesis of 2-allylindole and 2-allylbenzofuran derivatives from 2-((trimethylsilyl)-ethynyl)arenes.
A. Chakraborty, K. Jyothi and S. Sinha*
Tetrahedron Lett. 2014, 55, 6795-6798.
Impact Factor: 2.397
ISSN No. 0040-4039
No of Citations: 3
4. *tert*-Butyl nitrite mediated azo coupling between anilines and imidazoheterocycles.
A. Chakraborty, S. Jana, G. Kibriya, A. Dey and A. Hajra*
RSC Adv., 2016, 6, 34146-34152.
Impact Factor: 3.840
ISSN No. 2046-2069
No of Citations: 2
5. Synthesis of optically active selenium containing isotryptophan, homoisotryptophan and homotryptophan.
K. Goswami, **A. Chakraborty** and S. Sinha*
Eur. J. Org. Chem. 2013, 3645-3647.
Impact Factor: 3.344
Online ISSN: 1099-0690, Print ISSN: 1434-193X
No of Citations: 1
6. Copper(I)-Catalyzed Oxidative Coupling between 2-Aminobenzothiazole and Terminal Alkyne: Formation of Benzothiazine.
S. Mitra, **A. Chakraborty**, S. Mishra, A. Majee and A. Hajra*
Organic Letters 2014, 16, 5652-5655.
Impact Factor: 6.324
ISSN No. 1523-7060
No of Citations: 11
7. Catalyst-free selenylation of imidazoheterocycles.
S. Jana, **A. Chakraborty**, S. Mondal and A. Hajra*
RSC Adv., 2015, 5, 77534-77537.
Impact Factor: 3.840
ISSN No. 2046-2069
No of Citations: 8
8. Metal-Free Synthesis of Indoles from Arylhydrazines and Nitroalkenes at Room Temperature.
M. Singardar, **A. Chakraborty**, S. Jana, and A. Hajra*
ChemistrySelect, 2017, 2, 8893 – 8897.
Online ISSN: 2365-6549

9. Cu-Catalyzed synthesis of benzo[4,5]imidazo[2,1-*b*]thiazoles from nitroalkenes and 1*H*-benzo[*d*]imidazole-2-thiol. (*Communicated*)
S. Jana, **A. Chakraborty**, and A. Hajra*

POSTER PRESENTATION ON SYMPOSIA

1. **"Synthesis of Indoleazepine Compounds as Potent GSK-3 β Kinase Inhibitors."** Amrita Chakraborty and Surajit Sinha; National Seminar on Current Trends in Chemistry-V (NSCTC-V): University of Kalyani, Kalyani, West Bengal, India; February 25, **2011**.
2. **"Palladium-catalyzed syntheses of 2-allylindole and 2-allylbenzofuran derivatives from 2-((trimethylsilyl)ethynyl)arenes."** Amrita Chakraborty and Surajit Sinha; National Organic Symposium Trust-XII (NOST-XII): CSIR-CDRI, LUCKNOW, India; February 24-27, **2016**.
3. **"Synthesis of spiroindoles and cyclohepta[*b*]indoles from Suitably 2,3-Disubstituted Indoles through Sigmatropic Rearrangement."** Amrita Chakraborty and Surajit Sinha; National Seminar on Recent Trends in Chemistry Research: Dept. of Chemistry, Visva-Bharati (A Central University), Santiniketan, W. B.; March 25-16, **2017**.
4. **"*tert*-Butyl nitrite mediated azo coupling between anilines and imidazoheterocycles."** Amrita Chakraborty and Alakananda Hajra; International Science Seminar: Burdwan Raj College, Burdwan, W. B.; 10 th October, **2017**.
5. International Symposium on Current Trends in Organic Chemistry (ISOC): Department of Organic Chemistry, IACS, Kolkata, India; December 10-12, **2009**.
6. Chemical Research in the First Decade of 21st" Century (CRSI Kolkata Chapter, Symposium-IX): Department of Chemistry, Visva-Bharati, Santiniketan, West Bengal, India; August 6, **2011**.
7. International Conference on Chemistry and Complexcity: IACS, Kolkata, India; December 6-8, **2011**.
8. ACS on Campus: IACS, Kolkata, India; October 12, **2012**.
9. RSC-INDIA Roadshow: IACS, Kolkata; February 5, **2013**.
10. National Symposium on Perspective and Challenges in Organic Chemistry: Department of Organic Chemistry, IACS, Kolkata, India; October 18, **2014**.