

Name: Dr. Ankita Chakraborty

Designation: Assistant Professor

Branch: Chemistry



Educational Qualification(s):

Qualification(s)	University
B.Sc (TDC H in Chemistry)	MBB College, Tripura University.
M.Sc (Organic Chemistry)	Tripura University
Ph.D (Synthetic Organic Chemistry)	Tripura University
Post-doctoral	CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana

Experience in years:

Academic: 3 years

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	MBB College, Agartala	Guest Faculty, Dept. of Chemistry	July 2018	June 2019
2	CSIR-IICT, Hyderabad, Telangana	Research Associate, Dept. of OSPC	July 2019	March 2020
3	ICFAI University, Tripura	Visiting Faculty, Dept. of Chemistry	September 2020	February 2021
4	ICFAI University, Tripura	Assistant Professor Dept. of Chemistry	February 2021	Till date

Other Information:

Publication details:-

1. General solvent-free highly selective N-tertbutyloxy carbonylation strategy using protic ionic liquid as an efficient catalyst. S. Majumdar, J. De, **A. Chakraborty** and D.K.Maiti, *RSC Advances*, 2014, 4, 24544-24550.
2. A protic ionic liquid catalyzed strategy for selective hydrolytic cleavage of tertbutyloxycarbonyl amine (N-Boc). S. Majumdar, J. De, **A. Chakraborty**, D. Roy and D. K. Maiti, *RSC Advances*, 2015, 5, 3200-3205.
3. Anion Dependent Imidazolium Protic Ionic Liquid Catalyzed Solvent-Free General strategy for Chemoselective Fmoc and Cbz Protection of Amines and Their Chiral analogues. **A. Chakraborty**, R.Purkait, U.C.De, D.K.Maiti, and S.Majumdar, *Chemistry Select*, 2016, 1, 2668-2672
4. Selective exploitation of acetoacetate carbonyl groups using imidazolium based ionic liquids: synthesis of 3-oxo-amides and substituted benzimidazoles. **A. Chakraborty**, S. Majumdar, D. K. Maiti, *Tetrahedron Letters*, 2016, 57, 3298-3302
5. Silica-ferric chloride (SiO₂-FeCl₃) catalyzed selective synthesis of 2-substituted benzimidazole through Csp²-Csp³ bond cleavage of β (beta)-ketoester/amide. S. Majumdar, **A. Chakraborty**, S.Bhattacharjee, S. Debnath, D. K. Maiti, *Tetrahedron Letters*, 2016, 57, 4595- 4598
6. Silica-ferric chloride (SiO₂-FeCl₃) catalyzed selective synthesis of 2-substitute benzimidazole through Csp²-Csp³ bond cleavage of β (beta)-ketoester/amide. S. Majumdar, **A. Chakraborty**, S.Bhattacharjee, S. Debnath, D. K. Maiti, **Highlighted in Synfacts**, 2017, 13(01):111
7. Therapeutic potentials of baicalin and its aglycone, baicalein against inflammatory disorders. B. Dinda , S. Dinda , S. Das Sharma, R. Banik , **A. Chakraborty** , M. Dinda , *European Journal of Medicinal Chemistry*, 2017, 131, 68-80

8. An efficient strategy for N-alkylation of benzimidazoles/imidazoles in SDS-aqueous basic medium and N-alkylation induced ring opening of benzimidazoles. **A.Chakraborty**, S. Debnath, T. Ghosh, Dilip K. Maiti, S. Majumdar, **Tetrahedron**, **2018**, 72, 5932-5941
9. BmIm[OH] catalyzed Rapid, Mild and Improved Protocol for the Synthesis 3-hydroxy-3- (nitroalkyl) indolin-2-one Derivatives in Water. **A. Chakraborty**, T. Ghosh, D. K. Maiti , S.Majumdar, **Chemistry Select**, **2019**, 4, 1-6.
10. Therapeutic potentials of plant iridoids in Alzheimer's and Parkinson's diseases: A review B. Dinda, M. Dinda, G. Kulsri, **A. Chakraborty**, S. Dinda, **European Journal of Medicinal Chemistry**, **2019**, 169, 185-199.
11. A Task-Specific Ionic-Liquid-Mediated Solvent-Free Protocol for Direct Access to Dimethyl Acetal Protected Benzimidazole 2-Carboxaldehydes. B. Deb, **A. Chakraborty**, J. Hossain, S. Majumdar, **SynOpen** , **2020**, 4, 89-95.
12. Polydiacetylene-N-1-Hexadecyl Imidazole Mixed Film and Its Application toward the Sensing of Volatile Organic Compounds, Gasoline, and Pollution Level in Car Exhaust. S.Suklabaidya, S.Chakraborty, S.Sarkar, R.Paul, H.Banik, **A.Chakraborty**, D.Bhattacharjee, S. Majumdar, S. A. Hussain. **J. Phys. Chem. C**, **2021**, 125, 29, 15976-15976-
13. Bis-indolylation of aldehydes and ketones using silica-supported FeCl₃: molecular docking studies of bisindoles by targeting SARS-CoV-2 main protease binding sites. B. Deb, S. Debnath, **A. Chakraborty**, S. Majumdar **RSC Adv.**, 2021, 11, 30827-30839,

Book Chapter:-

“Pharmacokinetics and Metabolism of Phytochemicals Having Anti-obesity and Antidiabetic Activity” in the book “Natural Products in Obesity and Diabetes -Therapeutic Potential and Role in Prevention and Treatment by Springer Nature. Dinda B., **Chakraborty. A** (2022) Pharmacokinetics and Metabolism of Phytochemicals Having Anti-obesity and Antidiabetic Activity. In: Dinda B. (eds) Natural Products in Obesity and Diabetes. Springer, Cham. ;

(b)Details of Seminar/Workshop/Conference.:-

1. 'TWO DAY'S WORKSHOP ON Materials & Green Chemistry 29-30th November, 2013. organized by Dept. of Chemistry, NIT Agartala.
2. Three Days WOKSHOP ON Computer Aided Drug Design 8-10th November, 2013. Jointly organised by Dept. of Chemistry, MBB College and Scrodinger Inc.,Bangalore.
3. Science Academics' Lecture workshop on "Frontiers in Advanced Bio-Chemical Science", 25-27th February, organised by Dept. of Chemistry, Dasaratha Deb Memorial College, Khowai.
4. REACH-2015 An International Symposium on recent Advances in Chemistry, 3-5th March 2015, organised by UGC- Centre for Advanced Studies in Chemistry, Dept. Of Chemistry, NEHU, Shillong. (Participated in Poster Presentation)
5. UGC Sponsored National Seminar on Recent Trend of Research in Chemistry- A New Horizon of Hopes, 8-9th August 2015, organised by Dept. of Chemistry, Women's College, Agartala. (Participated in Oral Presentation)
6. UGC Sponsored two days National Conference on "Chemistry today or tomorrow for better future", 5-6th August 2016, organised by Dept. of Chemistry, Dasarath Deb Memorial College, Khowai. (Participated in Oral Presentation)
7. National Conference on Recent Development and Application in Chemical Sciences (RDACS-2016), 20-21st May 2016, organized by Dept. of Chemistry, NIT Agartala. (Participated in Poster Presentation)
8. Second International Conference on Material Science ICMS-2017, 16-18th February 2017, organized by Dept. of Physics, Tripura University (Participated in Poster Presentation)
9. Research Scholar Training Programme under PMMMNMTT Scheme, 28th April- 4th May 2017, organized by Faculty Development Centre, Tripura University
10. International Conference on Recent Trends in Chemistry of Materials (ICRTCM) (virtual mode , 20th -24th September 2021 organised by Dept. of Chemistry, ICFAI University, Tripura.