

Dr. Animesh Mondal, M.Sc., Ph.D.

Assistant Professor || Department of Chemistry

**Govt. General Degree College, Salboni Koyma, Bhimpur,
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Personal Details:

Date of Birth : 3rd March, 1990

Nationality : Indian

Sex : Male

Marital Status : Single

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Academic Qualifications

Degree/Examination	Institution/University	Year
Ph. D. (Synthetic organic chemistry)	University of Calcutta	2018
M. Sc (Organic Chemistry)	University of Calcutta	2012
B. Sc (Chemistry)	University of Calcutta	2010
Higher Secondary (XII th std.)	W.B.C.H.S.E.	2007
Madhyamik (X th std.)	W.B.B.S.E.	2005

Work and Experience Details

Doctoral Thesis

Ph.D. Thesis Title: The Exploitation of Efficient, Atom-Economical and Environmentally Benign Synthesis by the Application of Multicomponent Protocols.

Ph. D. Supervisor: Prof. Chhanda Mukhopadhyay, Professor, Department of Chemistry, University of Calcutta, 92, A.P.C. Road, Kolkata- 700009, India.

Previous Employment

1. Worked as a Project Fellow at Department of Chemistry, TCG Lifesciences, BN-7, Sector V, Salt Lake, Kolkata.
2. Worked as Guest faculty of Department of Chemistry, Prabhu Jagatbandhu College under University of Calcutta, Andul-Mouri, Howrah-711302, West Bengal.
3. Worked as Guest faculty of Department of Chemistry, Hiralal Mazumdar Memorial College for Women under West Bengal State University, Dakshineswar, Kolkata-700076, West Bengal.

Post Doctoral Experience

1. Worked as UGC-Dr. D. S. Kothari Post Doctoral Fellow (DSKPDF), at the Department of Chemistry, Aliah University, Kolkata-700156, West Bengal.

Awards and Achievements

- ✓ State Level Scholarship received in postgraduate level (2011-2012).
- ✓ Qualified CSIR-NET-JRF in Dec. 2012 (Conducted by CSIR in all India basis).
- ✓ Qualified GATE-2018 (Conducted by IIT Guwahati in all India basis).

Research Area

- ✓ Development of green and environment-friendly methodologies towards synthesis of biologically potent simple and complex spiro-heterocyclic frame-work
- ✓ Designing and synthesis of new bio-active homogeneous and heterogeneous catalysts towards the important organic reactions
- ✓ Construction of valuable organic frameworks by multicomponent, one-pot, atom and step-economic approaches
- ✓ Synthesis and characterization of organic fluorescence probe for effective and selective detection of metal ions and anions of importance
- ✓ Biological study of the synthesized organic molecules for determination of their cytotoxicity and biocompatibility nature
- ✓ Photophysical Properties

Participations in symposium/conference

1. Participated in the State level Seminar on "Some Basic Aspects of Undergraduate Chemistry" on 17th November, **2007** organized by the Department of Chemistry, Fakir Chand College, Diamond Harbour, South 24 Pgs, West Bengal, India.

2. Participated in the State level Seminar on “Awareness in Recent Chemistry” held on 14th March, **2008** organized by the Department of Chemistry, Bethune College, Kolkata, West Bengal, India.
3. Participated in the symposium on “Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry and Industry (2013)” organized by the Indian Chemical Society at the University of Calcutta, 92 APC Road, Kolkata-700009, West Bengal, India during August 02-03, **2013**.
4. Participated at the National Symposium on “Recent Advances in chemistry and industry (2014)” during August 01 and August 02, **2014** organized by the Indian Chemical Society at the University of Calcutta, 92 APC Road, Kolkata-700009, West Bengal, India.
5. Participated and gave poster presentation titled: “**Multicomponent, One-pot And Expedious Synthesis Of Highly Substituted New Spiro[indolo-3,10'-indeno[1,2-b]quinolin]-2,4,11'-Triones Under Micellar Catalytic Effect Of CTAB In Water**” by **Animesh Mondal** and Chhanda Mukhopadhyay in the National Symposium on “Recent Advances in Chemistry and Industry (2015)”, on July 31 and August 01, **2015** organised by the Indian Chemical Society at University of Calcutta, 92 APC Road, Kolkata-700009.
6. Participated and presented a poster titled: “**Activated Alumina Balls under Neat Conditions: A Green Catalyst for the Synthesis of Spiro-Heterocyclic Scaffolds by Ring-Opening versus Annulation of the Isatin Moiety**” in the UGC Sponsored National Symposium on “Enthralling Facets of Molecular Manifestation in Chemical Sciences”, on 15th and 16th September, **2016** organised by Bidhannagar College, Salt Lake, Kolkata-700064.
7. Participated as a registered participant in the National Symposium on “Emerging Trends in Chemical Science”, March 30, **2017** by Department of Chemistry, University of Calcutta, 92 APC Road, Kolkata-700009.
8. Participated at the National Symposium on “Emerging Trends in Chemical Science”, March 28, **2018** by Department of Chemistry, University of Calcutta, 92 APC Road, Kolkata-700009.

Research Publication(s)

1. “One-pot, expeditious and chromatography-free synthesis of new chromeno[4,3-*e*][1,3]oxazine derivatives catalyzed by reusable TiO₂ nanopowder at room temperature”, **Animesh Mondal**, Sunil Rana and Chhanda Mukhopadhyay*, **Tetrahedron Letters (2014)**, 55, 3498-3502.
2. “Multicomponent, one-pot and expeditious synthesis of highly substituted new spiro[indolo-3,10'-indeno[1,2-*b*]quinolin]-2,4,11'-triones under micellar

- catalytic effect of CTAB in water”, **Animesh Mondal**, Mike Brown and Chhanda Mukhopadhyay*, **RSC Advances (2014)**, 4, 36890-36895.
3. “FeCl₃-catalyzed combinatorial synthesis of functionalized spiro[Indolo-3,10'-indeno[1,2-*b*]quinolin]-trione derivatives”, **Animesh Mondal** and Chhanda Mukhopadhyay*, **ACS Combinatorial Science (2015)**, 17, 404-408.
 4. “Activated alumina balls under neat conditions: A green catalyst for the synthesis of spiro-heterocyclic scaffolds by ring-opening versus annulation of the isatin moiety”, **Animesh Mondal**, Biplab Banerjee, Asim Bhaumik and Chhanda Mukhopadhyay*, **ChemCatChem (2016)**, 8, 1185-1198.
 5. “ZnTiO₃ nanopowder as an effective and dual catalyst for the water mediated expeditious synthesis of [1,3]-oxazine scaffolds at room temperature”, **Animesh Mondal** and Chhanda Mukhopadhyay*, **Current Green Chemistry (2016)**, 3, 214-226.
 6. “Activated neutral alumina as a simple and reusable catalyst for the synthesis of *N,N*-Bis[(alkyl/arylthio)methyl]amines: A solid-supported protocol under solvent-free conditions”, **Animesh Mondal** and Chhanda Mukhopadhyay*, **Asian Journal of Organic Chemistry (2017)**, 6, 1783-1793.
 7. “Silver-induced C_α(sp³)-H activation of benzylamines followed by [1,5]- versus [1,3]-Rearrangement: A strategy towards the regioselective synthesis of spiro-dihydropyrroles”, **Animesh Mondal** and Chhanda Mukhopadhyay*, **European Journal of Organic Chemistry (2017)**, 6299-6313.
 8. “A rapid, facile and chromatography-free microwave assisted protocol for the synthesis of highly functionalised dihydrospiro[indeno[1,2-*b*] quinoline-10,3'-indole]-2',4',11-trione derivatives”, **Animesh Mondal** and Chhanda Mukhopadhyay*, **Current Microwave Chemistry (2017)**, 4, 173-185.
 9. “I₂ catalyzed access of spiro[indoline-3,4'-pyridine] appended amine dyad: new ON-OFF chemo-sensors for Cu²⁺ and imaging in living cells”, **Animesh Mondal**, Barnali Naskar, Sanchita Goswami, Chandraday Prophan, Keya Chaudhuri and Chhanda Mukhopadhyay*, **Organic & Biomolecular Chemistry (2018)**, 16, 302-315.
 10. “Benzimidazole: A solid state colorimetric chemosensor for fluoride and acetate”, Tandrima Chaudhuri*, **Animesh Mondal** and Chhanda Mukhopadhyay, **Journal of Molecular Liquids (2018)**, 251, 35-39.
 11. “Dihydroindeno[1,2-*b*]pyrroles: new Al³⁺ selective off-on chemosensors for bio-imaging in living HepG2 cells”, Kajal Mal, Barnali Naskar, **Animesh Mondal**, Sanchita Goswami, Chandraday Prophan, Keya Chaudhuri and Chhanda Mukhopadhyay*, **Org. Biomol. Chem. (2018)**, 16, 5920-5931.
 12. “Pseudo five component reaction towards densely functionalized spiro[indole-3,2'-pyrrole] by picric acid, an efficient *syn*-diastereoselective catalyst: insight

into the diastereoselection on C(sp³)-C(sp³) axial conformation”, Ayon Sengupta, Suwendu Maity, **Animesh Mondal**, Prasanta Ghosh, Sonali Rudra* and Chhanda Mukhopadhyay*, **Org. Biomol. Chem. (2019)**, 17, 1254-1265.

13. “A quick accelerating microwave-assisted sustainable technique: permutated spiro-casing for imaging experiment”, **Animesh Mondal**, Barnali Naskar, Sanchita Goswami, Chandraday Prodhan, Keya Chaudhuri and Chhanda Mukhopadhyay*, **Molecular Diversity (2020)**, 24, 93-106.

Review Publication

1. “Constructions of Carbon-Carbon and Carbon-Heteroatom bonds: Enabled by Visible Light”, **Animesh Mondal**, and Chhanda Mukhopadhyay*, **Current Organic Chemistry (2020)**, 24, 1-45.