



Dr. Amitava Mandal
Assistant Professor in Chemistry

Academic Qualifications:

B. Sc. (Hons.) in Chemistry; Raiganj College (University College), University of North Bengal, West Bengal, India

M. Sc. in Chemistry, University of North Bengal, West Bengal, India

M. Phil. in Chemistry, Madurai Kamaraj University, Madurai, India

Ph. D. in Natural Products-Medicinal Chemistry, University of North Bengal, West Bengal, India

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Research Interest:

Medicinal Chemistry, Supramolecular Chemistry, Natural Products Chemistry, Drug Development, Organic synthesis, Green Chemistry, Organometallic Chemistry

Specialization:

Organic Chemistry

Fellowships:

JRF, UGC BSR Fellow under University of North Bengal, West Bengal, India

SRF, UGC BSR Fellow under University of North Bengal, West Bengal, India

Post Doctoral Research Fellow at the Centre for Self Assembly and Complexity, Institute of Basic Sciences, Pohang University of Science and Technology, (POSTECH), South Korea

D. S. Kothari Post Doctoral Fellowship (Not availed)

Award: Nil
Conference/Seminar/Organization: Participated in State, National and International Seminar: 22
Teaching Experience: One year for UG and one year for PG
Research Experience: Medicinal Chemistry, Supramolecular Chemistry, Natural Product Chemistry, Drug Development, Organic synthesis, Green Chemistry, Organometallic Chemistry, Polymeric Additives.
Research Guiding Experience: M.Sc. project students Ph. D. Scholars: 03 Post-Doctoral/Research Associate: Nil
Completed Research Projects: Nil
Ongoing Project : Nil
Previous & Present Employment: 19.05.2015 05.04. 2016 on FDP 12.09.2016 to till date Assistant Professor in Chemistry
Administrative Experience: 1. Centre-in-Charge of B. Sc 1 st SEM and 3 rd SEM Examination, 2017 of Raiganj University
Financial Assistances from following Organisations for attending International Conferences in abroad: Nil
Publications: Books: Nil Research Papers: <ol style="list-style-type: none"> 1. Shilpi Ghosh, Swagata Mukhopadhyay, Mrinmay Sarkar, Amitava Mandal, Vaskar Das, Anoop Kumar, Biplab Giri, Biological evaluation of a halogenated triterpenoid, 2α-bromodihydrobetulonic acid as inhibitor of human topoisomerase IIα and HeLa cell proliferation, <i>Chemico-Biological Interactions</i>, Accepted in February, 2017. 2. Tanmay Chowdhury, Amitava Mandal, Subhas Chandra Roy, Dilip De Sarker, Diversity of the Genus <i>Ocimum</i> (Lamiaceae) through morpho-molecular (RAPD) and Chemical (GC-MS) analysis, <i>Journal of Genetic Engineering and Biotechnology</i>, Accepted in December, 2016. 3. Tanmay Chowdhury, Amitava Mandal, Amit Kumar Jana, Subhas Chandra Roy, Dilip

De Sarker, Study of phyto-sociology and ecology of naturally growing *Ocimum* species with their conservational strategies in Dakshin Dinajpur district of West Bengal, *Acta Ecologica Sinica*, 2016, 36, 483-491.

4. **Amitava Mandal**, Shilpi Ghosh, Ashim Ghosh, Suranjan Shil, Asim Kumar Bothra and Pranab Ghosh*, 3-epihydroxy lup-20(29)-en-19(28)-olide: Partial synthesis, antitopoisomerase activity and 3D molecular docking, *Medicinal Chemistry Research*, 2016, 25, 1087-1097.
5. **Amitava Mandal**, Pranab Ghosh, Shilpi Ghosh, Anti-diabetic Effect of Friedelan Triterpenoids in Streptozotocin Induced Diabetic Rat, *Natural Products Communications*, 2015, 10, 1641-1645.
6. Pranab Ghosh* **Amitava Mandal**, S. Dey and C. Pal, Synthesis and in vitro screening of 29, 30-dibromo-28-oxaallobetulin against Parasitic protozoans *Leshmania donovani* and *Leshmania major*, *Indian Journal of Pharmaceutical Sciences*, 2015, 77, 202-207.
7. Pranab Ghosh* **Amitava Mandal**, Raju Subba, γ -maghemite-silica nanocomposite: A green catalyst for diverse aromatic *N*-heterocycles, *Catalysis Communications*, 2013, 41, 146-152.
8. Pranab Ghosh* **Amitava Mandal**, and Mohammad Golam Rasul, A New Bioactive Ursane Type Triterpenoid from *Croton bonplandianum* Bail, *Journal of Chemical sciences*, 2013, 125, 359-364.
6. Pranab Ghosh* and **Amitava Mandal**, Sodium dodecyl sulfate in Water: Greener Approach for the Synthesis of Quinoxaline Derivatives, *Green Chemistry Letters and Reviews*, 2013, 6, 45-54.
7. Pranab Ghosh,* **Amitava Mandal**, Synthesis of functionalised benzimidazoles and quinoxalines catalyzed by sodium hexafluorophosphate bound Amberlite resin in aqueous medium, *Tetrahedron Letters*, 2012, 53, 6483-6488.
8. **Amitava Mandal**, Shilpi Ghosh, Ashim Kumar Bothra, Ashis Kumar Nanda, Pranab Ghosh,* Synthesis of friedelan triterpenoid analogs with DNA topoisomerase II α inhibitory activity and their molecular docking studies., *Eur. J. Med. Chem.*, 2012, 54, 137-143.
9. Pranab Ghosh,* **Amitava Mandal**, Joydip Ghosh, Chiranjib Pal, Ashis Kumar Nanda, Synthesis of bioactive 28-hydroxy-3-oxolup-20(29)-en-30-al with antileukemic activity, *J. Asian Nat. Prod. Res.*, 2012, 14, 141-153. (**Position 1 in top 20 articles in BioMedLib**)
10. Pranab Ghosh* and **Amitava Mandal**, Greener approach towards pyrazine

synthesis, *Green Chemistry Letters and Reviews*, 2012, 5, 127-134.

11. Pranab Ghosh* and **Amitava Mandal**, Solventfree, highly chemoselective N and O-acylation on silica and silica magnesium oxide: A recyclable solid surface, *J. Indian Chem. Soc.*, 2012, 89, 261-268.
12. Pranab Ghosh* and **Amitava Mandal**, Catalytic role of sodium dodecyl sulfate: selective synthesis of 1, 2-disubstituted benzimidazoles in water, *Catalysis Communications*, 2011, 11, 744-747.
13. Pranab Ghosh,* Maumita Das, Mahua Upadhyay and **Amitava Mandal** "Synthesis and Evaluation of Acrylate Polymers in Lubricating Oil", *J. Chem. and Eng. Data*, 2011, 56, 3752-3758.
14. Pranab Ghosh,* **Amitava. Mandal**, M. G. Rasul, Madhumita. Chakraborty and Aniruddha Saha, Microwave assisted one pot synthesis of pyrazine derivatives of pentacyclic triterpenoids and their biological activity, *Indian Journal of Chemistry*, 2011, 50B, 1519-1523.
15. Pranab Ghosh,* Prasanta. Chakraborty, **Amitava Mandal**, M. G. Rasul, Mdhumita Chakraborty and Aniruddha Saha, Triterpenoids from *Schleichera oleosa* of Drjeeling foothills and their antimicrobial activity, *Indian Journal of Pharmaceutical Sciences*, 2011, 73, 231-233.
16. Pranab Ghosh,* **Amitava Mandal**, P. Chakraborty, M. G. Rasul, M. Chakraborty and A. Saha, Triterpenoids from *Psidium guajava* with biocidal activity, *Indian Journal of Pharmaceutical Sciences*, 2010, 72, 504-507.
17. Pranab Ghosh,* Tapan Das, Debabrata Nandi, **Amitava Mandal**, Synthesis and characterization of biodegradable polymer-used as pour point depressants for lubricating oil, *International J. Polymeric materials*, 2010, 59, 1008-1017.
18. Pranab Ghosh,* **Amitava. Mandal**, M. Chakraborty and A. Saha, Triterpenoids from *Quercus suber* and their antimicrobial and phytotoxic activities, *J. Chem. Pharm. Res.*, 2010, 2(4), 714-721.
19. Pranab Ghosh* and **Amitava Mandal**, Green and selective protocol for the synthesis of quinoxalines, *Advances in Applied Science Research*, 2011, 2, 255-260.
20. Alok Majumder,* Antara Sarkar, **Amitava Mandal** and Pranab Ghosh,* Synthesis and reaction of 1,2-bis-(2'-oxocyclohexyl)ethane and its rearrangement to spiroketone, *J. Chem. Pharm. Res.*, 2012, 4(5), 2599-2602.
21. Alok Majumder,* **Amitava Mandal** and Pranab Ghosh,* Total synthesis of 9-oxo-bicyclo-[3.3.1]-nonane, *Journal of Atoms and Molecules*, 2012, 2, 176-

181.

Technical Report: Nil

Advisory Editor: Nil

Special Lectures:

Keynote Addresses: Nil

Country Visited: Nepal, South Korea

Editorial Board Member: Nil

REVIEWER of the following Books and Journals: Nil

Jury Member:

1. Science models of Uttar Dinajpur District students' Youth Science Fair, 2016

LIST OF PUBLICATIONS:

RESEARCH PAPERS : 21

National: Nil

International: 21

Patent: Nil