

Dr. Anjumani Talukdar

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Career Objective :

Aspiring a challenging position in an esteemed organization that will offer me an opportunity to nurture my skills and talents to give positive fruitful outcomes.

Core Competencies and Skills :

Sound Technical Knowledge (Chemical and Pharmaceutical domain)

Good Understanding of the Fundamentals of Patents, ability to Understand Patent Language and Interpretation of Patent Claims

Thorough Knowledge and Understanding of the Patent Acts and Patent Rules of IN, US, and EP.

Independent and Effective Drafting of Patent Applications.

Design Ways and Means to Work-around Bottle-neck Patents/Applications in Process

Chemistry, Polymorphs, Composition, etc.

Computer Literacy (MS Office applications, Chemical Drawing Tools)

Good Communication Skills, both Oral and Written

Strong analytical skills, quick learner, willing to acquire knowledge in new domains, effective communicator with strong relationship building skills.

Professional Experience :

February 2022

Present Organization : Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur

Designation : Women Scientist Trainee, TIFAC, KIRAN IPR

Job Profile & Accomplishments :

Patent landscaping

Patent searching (validity/invalidity search, FTO search)

Drafting of patent applications on process, polymorphs of APIs, pharmaceutical compositions from natural products.

October 2009 - August 2011

Organization : Birjhora Mahavidyalaya, Bongaingaon, Assam

Department : Chemistry

Designation : Assistant professor

Job Profile & Accomplishments :

Teaching chemistry to undergraduate students

Professional Training :

Workshop on Patent drafting, Rajiv Gandhi School of Intellectual Property Law, March 3, 2022.

Workshop on Patent drafting, Rajiv Gandhi School of Intellectual Property Law, April 17, 2022.

Workshop on Trademark and Geographical Indications Rajiv Gandhi School of Intellectual Property Law, August 6-7, 2022.

Workshop on Digital Copyright, Trade Secret and protection of plant variety Rajiv Gandhi School of Intellectual Property Law, March 3, 2022.

General Course on Intellectual Property (DL101E22S3) By WIPO, July 5 -August 18, 2022.

Education :

2021- Post Graduate Diploma in Intellectual Property Rights, Institute of Good Manufacturing Practices, India

2019 - Ph.D in Chemistry from Gauhati University, Guwahati Assam.

2009 - Masters in Chemistry from Gauhati University with 73.7%marks.

2007 - Bachelors in Chemistry from M.C. College Barpeta, with 68.3%marks.

2004 - Higher Secondary, from M.C College Barpeta with 63% marks.

2002 - High School leaving Certificate, from Gajia High School with 73%marks Academic

Achievements :

- Qualified **Patent Agent Eam 2022**
- Selected as **Women Scientist C** under KIRAN IPR, DST-TIFAC, 2021
- University Grants Commission BSR - RFSMS fellowship for doctoral work Chemistry Department of Gauhati University from 2013-2018.
- Qualified **NET (L.S)** in chemical Science, (AIR rank-94).
- 10th rank in B.Sc., degree course (2004-92007) from Gauhati University.

PhD Thesis Title

A novel heterogeneous catalyst from water hyacinth (*ecchoronia crassipies*): its preparation, characterizations and applications in organic reactions

Summary :

The study highlights a series of investigations in which the water hyacinth ash (WHA) has been prepared characterized and used as a heterogeneous catalyst in the synthesis of a number of important organic compounds with excellent yields. Water hyacinth (*Eichhornia crassipes*) is an aquatic weed of only little economic value. However, the ash derived from its sun-dried mass has the potential to be reckoned as a highly efficient alternative to a number of other established catalysts in use especially in addition and condensation reactions.

The findings of the study reveal that water hyacinth ash is a highly effective heterogeneous catalyst that can cause various organic transformations.

Supervisor : Prof. Dibakar Chandra Deka, Department of Chemistry, Gauhati University University, India.

Examiners : Prof. Sunil Shrivastava, IIT Kharagpur, India and Prof. Sudha Jain, University of Lucknow, India

Publications :

1. Current catalysis, 2016, 5 (1), 51 – 65

Title :

Preparation and characterization of a heterogeneous catalyst from Water Hyacinth (*Eichhornia crassipes*): Catalytic application in the synthesis of bis(indolyl)methanes and bis(pyrrolyl) methanes under solvent free condition

Authors : A. Talukdar and D. C. Deka

2. Current Nutrition and Food Sciences, 2020, 16(3), 368-372.

Title : - Chemical analysis of traditional food additive Dokhora khar derived from Water Hyacinth (*Eichhornia crassipes*)

Authors : A. Talukdar and D. C. Deka.

3. SN Applied Sciences, 2(4), 1-9

Title : - Water hyacinth ash: an efficient green catalyst for the synthesis of β -amino carbonyl/nitrile compounds by aza-Michael reaction at room temperature

Authors : A. Talukdar and D. C. Deka..

4. Current Nutrition & Food Science 18 (8), 2022

Title : - Heavy Metal Monitoring Tactics for Associated Human Health Risks Decline in Foods

Academic Seminars/Workshop :

1. 14th CRSI National Symposium in Chemistry, February 3-5 2012 held at CSIRNIIST, Thiruvananthapuram.

2. National Seminar on 'Emerging trends in Chemistry', March 30-31 2012 held at Gauhati University, Guwahati. 3. National Seminar on Chemistry Education and Research, November 1-4 2012 held at Gauhati University, Guwahati.

4. International conference on 'Green energy and smart materials through science, technology and management' jointly organized by Gauhati University and University of South Africa on 21-23 January, 2014 held at Gauhati University, Guwahati.

5. UGC-SAP national seminar on 'Emerging trends in Chemical Sciences-2015', November 5-6, 2015 held at Gauhati University, Guwahati.

6. National seminar on 'Recent Advancement in Material Sciences' November 14-15, 2015 held at Veer Surendra Sai University of Technology, Burla, Sambalpur, Odisha.

7. 20 th CRSI National Symposium in Chemistry (CRSI-NSC 20) held at Gauhati University, Assam, India.

8. Methodology for development of Curriculum & lecture plan organized by Birjhora Mahavidyalaya Bongaigaon, Assam on 11 th October, 2010

9. Techniques in Analytical Chemistry, organized by Cotton College state University, Guwahati Assam on 13-14 th December 2013.

10. Short term training program on analytical instruments (GCMS, LCMS and HPLC systems), Guwahati IIT Biotech Park, 15-17 March, 2016.

11. Participated in the TEQIP-III sponsored one week short term course on “open source software in academia and research” organized by NIT Durgapur, west Bengal.

12. Participated in Master's conference Intellectual Property organized by Rajiv Gandhi School of IP Law, 2022