

## Curriculum Vitae

**AnjanaDhar**

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### Objective:

Seeking a challenging career with a progressive organization that provides me an opportunity to capitalize my technical skills and abilities in the field of polymer science

### Educational qualifications:

- ✓ **B. Sc in Chemistry** from Gauhati University in 2014
- ✓ **M.Sc in Chemistry** (Spl. Organic Chemistry) from Bodoland University in 2016

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### Project/research experience:

1. Worked as a Research Fellow on a SERB (DST) sponsored research project entitled "**Synthesis of starch based Biodegradable functional poly(meth) acrylates by controlled radical polymerization**" from 2016-2019.
2. MSc dissertation entitled "**Trans-esterification of Soya oil to biodiesel (FAME) by using a catalyst obtained from Sesame**". This dissertation work was carried out at the Department of Chemistry, Bodoland University, Kokrajhar, from January, 2016 to June, 2016.
3. Literature survey report entitled "**Natural dye based solar cell**". This survey work was carried out at the Department of Chemistry, Bodoland University, Kokrajhar, from January, 2016 to June, 2016.

### Research publications:

1. **Anjana Dhar**, Dhruva Jyoti Haloi and Bishnu P. Koiry. "**Synthesis of poly(methyl methacrylate) via ARGET ATRP and study of the effect of solvents and temperatures on its polymerization kinetics**", *Int J Chem Kinet* **2018**, 50,1–7.
2. **Anjana Dhar**, Upendra Singh, Bishnu P. Koiry, Bikash Baishya and Dhruva J. Haloi. "**Investigation of Microstructure in Poly(methyl methacrylate) Prepared via Ambient Temperature ARGET ATRP: A Combined Approach of 1D and 2D NMR Spectroscopy**", *J Polym Res* **2020**, 27,174-181.
3. Maromi Roy, Madhabi Bhattacharjee, **Anjana Dhar**, Bikash Baishya and Dhruva J. Haloi. "**Synthesis and compositional analysis of co- and ter-polymers of butyl acrylate with vinyl acetate and acrylic acid prepared via emulsion polymerization**", *Indian J Chem Technol* **2020**, 27, 509-514.
4. **Anjana Dhar**, Karabi Sarmah, Paramita Dutta, Bishnu P. Koiry and Dhruva J. Haloi. "**Synthesis, characterization and monomer composition analysis of poly (butyl acrylate-co-styrene) and**

*poly (butyl acrylate-co-acrylonitrile) prepared via emulsion polymerization".(revision will be submitted soon)*

5. **Anjana Dhar**, Prithwiraj Mandal, Bishnu P. Koiry and Dhruva J. Haloi. "*Poly(methyl methacrylate) grafted Starch: A review on their preparation, properties and applications*". **Under review.**
6. **Anjana Dhar and Dhruva Jyoti Haloi.** "*Starch initiated Activators regenerated by electron transfer atom transfer radical polymerization (ARGET-ATRP) of Methyl Methacrylate*". **Under review**
7. **Anjana Dhar and Dhruva Jyoti Haloi.** "*Polyethylene Glycol Based Raft Agent Cum ATRP Macroinitiator Initiated Block Copolymerization of Methyl Methacrylate*". **Under review.**
8. **Anjana Dhar**, Madhabi Bhattacharjee and Dhruva Jyoti Haloi. "*Synthesis and Characterization of Starch-graft-poly(Methyl methacrylate-co-Styrene) prepared via emulsion polymerization*". **Under review.**
9. **Anjana Dhar and Dhruva Jyoti Haloi.** "*Synthesis and characterization of copolymer of Methyl methacrylate and Vinyl triethoxysilane prepared by free radical polymerization*". **Under construction.**

#### **Conferences papers:**

1. Presented a poster on "*Starch Initiated ARGET ATRP of Methyl Methacrylate: Synthesis and Characterization*" in **International e-Poster Conference on Current Outlook in Material Science and Engineering (COMSE-2k20)** from 15-16th May, 2020.
2. Presented a poster on "*Synthesis and characterization of colloidal latexes of Butyl acrylate and its copolymer*" in **15th International Conference on Polymer Science and Technology (SPSI MACRO-2018)** held in IISER-Pune and CSIR-NCL Pune, Maharashtra, India from December 19th to 22nd, 2018.
3. Presented a paper on "*Synthesis of poly(methyl methacrylate) via ARGET ATRP and Study of the effect of solvents and temperatures on its polymerization kinetics*" in **63rd Annual Technical Session of Assam Science Society & National Conference on Applied Sciences, Sustainable and Evolving Technologies (ASSET-2018)** held at CIT Kokrajhar from March 9th to 11th March, 2018.
4. Attended the conference **62nd Annual Technical Session of Assam Science Society & National Conference on Science and technology for Human Welfare held at Institute of Advanced Study in Science and Technology (IASST)**, Guwahati, Assam on February 27, 2017.

#### **Short term course/Training/ Workshop attended:**

1. Attended a workshop on "**Scholarly Writing & Intellectual Ethics**" held at Central Institute of Technology Kokrajhar and jointly organised by CIT & Elsevier on 21st November, 2017.
2. Attended an international short term course on "**Technology Upgradation in Rubber Technology**" (TURT-2017) organized by IIT Kharagpur at IIT Kharagpur, 4th-8th September, 2017.
3. Attended a short term training on "**Different techniques of Nuclear Magnetic Resonance**" in CBMR CSIR Lab, Lucknow, 18th September to 30th October, 2017. International Short Term

Course on Technology Upgradation in Rubber Technology (TURT-2017), IIT Kharagpur, 4<sup>th</sup>-8<sup>th</sup> September, 2017.

**Equipment handled:**

1. pH meter
2. Conductometer
3. Polarimeter
4. Rotary evaporator
5. Nuclear Magnetic resonance (NMR)
6. Gel Permeation Chromatography (GPC)
7. FT-IR Spectrometer
8. UV-Vis Spectrometer
9. TGA & DSC

**Other qualifications:**

Knowledge of Computer (*Windows 7, Windows XP, Windows Vista, MS Office, Origin, CS Chem Draw, Bruker Topspin etc.*).

**Languages known:** *Bodo, Bengali, Assamese, Hindi and English.*

**References:**

1. **Dr. Dhrubajyoti Haloi**

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3. **Dr. Bikash Baishya**

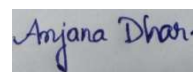
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**Declaration**

I, **Anjana Dhar**, solemnly hereby declare that all the above information in this resume is true and correct to the best of my knowledge.

**Date:** 03/03/2022

**Place:** Assam, India



**Anjana Dhar**