



PRACHI DWIVEDI

Professional Goal

To get associated with a research group where I can utilize my skills and gain further experience while enhancing the group's productivity and reputation.

CONTACT INFO

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LANGUAGES

- English
- Hindi

RESEARCH INTEREST

- Sustainable energy
- Green Chemistry
- Heterogeneous Catalysis

Published journal

GREEN CHEMISTRY

Chhabra, Tripti, Prachi Dwivedi, and Venkata Krishnan. "Acid functionalized hydrochar as heterogeneous catalysts for solventless synthesis of biofuel precursors." *Green Chemistry* (2022).

DOI:

<https://doi.org/10.1039/d1gc03330a>

ACADEMIC HISTORY

Indian Institute of Technology, Mandi, India

- Master of Science (Chemistry) | 2019-2021
- CGPA: 7.67/10 (First Division)

Acharya Narendra Dev College, University of Delhi, India

- Bachelor of Science (Chemistry) | 2015-2018
- CGPA: 6.96/10 (First Division)

RESEARCH EXPERIENCE

Indian Institute of Technology, Mandi, India

Heterogeneous Catalysis for Biomass conversion into value added chemicals
June 2019 - January 2021

- Biochar- Synthesis of heterogeneous catalyst through some biomass materials
- Second order lignocellulosic biomass.
- Sulfonated acidic catalyst using orange peel
- Incorporation of acidic catalyst in Hydroxyalkylation Alkylation Reaction

Acid Functionalized Hydrochar as Heterogeneous Catalyst for Solventless synthesis of Biofuels precursors January 2021 - April 2021

- Comparative studies of different catalyst
- All the acidic catalyst like nitrate and phosphate group activation done into Biochar
- Biodiesel fuel precursor obtained

TEACHING EXPERIENCE

Chegg

Subject matter Expert Chemistry | September 2018- November 2021

- ◆ Subjects Taught- Organic Chemistry and Inorganic Chemistry.
- ◆ Simplified and better understanding of Concepts

Unacademy

Doubt Solving Educator

SKILLS

- ◆ Expertise in handling of air and water sensitive reactions.
- ◆ Familiar with instrumentation and data interpretation of UV-Vis Spectrophotometer, MS, RAMAN, XPS, HPLC, FTIR and DLS.
- ◆ Familiar with spectra analysis of NMR, XRD.
- ◆ Conversant with all the Basic Computer requirements for Technical Writing (ChemDraw, Origin Pro etc.)

ACHIEVEMENTS & AWARDS

- ◆ **All India Rank: 2** (National Science Olympiad, India).
- ◆ Cleared the Joint Admission Test (JAM) 2018, a national level test to Master of Science with **All India Rank 429**.