

ANAM ADIL



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EDUCATION

Ph.D. Indian Institute of Science
Center for Sustainable technologies (CST)
CGPA- 8.0 (August 2017 - Present)

**B.Tech. National Institute of Technology,
Srinagar**

Chemical Engineering

CGPA - 8.5 (July 2011- August 2015)

Ranked 2nd in B.Tech Chemical engineering

12th and 10th JKBOSE

Mallinson Girls School

10th - 91% , 12th- 90 %

PROJECTS

**Green clean fuel- Methanol synthesis from
biomass - IISc**

Aspen Plus modelling of integrated biomass to methanol
system

Catalytic conversion of biomass to methanol- establishing the
methanol reactor setup

Techno-economic study of methanol from biomass

Thermodynamic analysis - IISc

Detailed thermodynamic study for a high-pressure low
temperature-low-temperature system.

**Activated carbon synthesis from locally available
walnut and almond shell- NIT, Srinagar**

hands-on experimental capabilities

**Catalytic conversion of water to hydrogen- IOCL
Faridabad**

ACHIEVEMENTS

- Prime Minister's Research Fellow (**PMRF**) (Dec 2018)
- Ranked **2nd** in Chemical engineering
NIT,Srinagar (Batch 2015)
- Ranked **6th in 12th** board chemistry JKBOSE
- Ranked **1st in 10th** board mathematics
JKBOSE

SKILLS & EXPERTISE

- ASPEN PLUS
- ASPEN HYSYS
- GASEQ
- Origin Pro
- Design-Expert

- Hypothesis testing
- ANOVA
- Optimization
- MS Excel

- SEM
- XRD
- BET

Publications

**"Kinetic modeling of green methanol from
biomass: analysis and optimization"**

Environment, Development, and Sustainability
(under review)

**"Detailed thermodynamics analysis for methanol
synthesis"** Journal of CO2 utilization (submitted)

**"Optimization of a generalized kinetic model
developed in Aspen Plus for a downdraft
gasifier"** Fuel processing Technology(submitted)