**Prerana Sikarwar**
**Corresponding Address:**
Department of Chemical Engineering
and Nanotechnology,
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**Profile:** Chemical Engineering professional with a Ph.D. in catalyst development and sustainable fuel purification technologies, currently focused on advancing research and teaching in nanotechnology applications. Extensive experience in designing and applying mesoporous catalysts to improve environmental quality, particularly in desulfurization and denitrogenation of fuels. Skilled in experimental analysis, problem-solving, and mentorship, with a commitment to promoting sustainable engineering solutions and fostering academic excellence.

## Educational Qualification:

- Ph.D., Chemical Engineering
  Malaviya National Institute of Technology Jaipur - 2019
  Research Topic: Desulfurization and Denitrogenation of liquid fuels: Oxidation and adsorption technologies.
- M.Tech, Chemical Engineering
  Indian Institute of Technology Roorkee - 2013
  GPA: 8.43/10
- B.E., Chemical Engineering
  Madhav Institute of Science & Technology, Gwalior - 2009

## Research and Project Work:

- **Ph.D. Research Topic:** Desulfurization and Denitrogenation of liquid fuels: Oxidation and adsorption technologies
- **M.Tech Dissertation Title:** CFD Modeling of Nucleate Pool Boiling
- **B.E. Project Title:** Recovery of L.P.G

## Research Publication in Journals:

- Sikarwar, P., Gosu, V., Palla, V.C.S., Subbaramaiah, V., 2024. Central composite design approach for concurrent desulfurization and denitrogenation of model liquid fuel over Mo-AAC. Environmental Quality Management, 33(4), pp.677-690.
- Sikarwar, P., Nemiwal, M., Gosu, V., Subbaramaiah, V., 2023. Adsorptive denitrogenation of indole from model fuel oil over Co-MAC. Journal of the Indian Chemical Society, 100(1), p.100801.
- Sikarwar P, Kumar UA, Gosu V, Subbaramaiah V. Catalytic oxidative desulfurization of DBT using green catalyst (Mo/MCM-41) derived from coal fly ash. J Environ Chem Eng

2018; 6: 1736-1744.

- Sikarwar P, Kumar UA, Gosu V, Subbaramaiah V. Synergetic effect of cobalt-incorporated acid-activated GAC for adsorptive desulfurization of DBT under mild conditions. J Chem Eng Data 2018; 63: 2975-2985.
- Sikarwar P, Kumar UA, Gosu V, Subbaramaiah V. An overview of conventional and alternative technologies for the production of ultra-low-sulfur fuels. Rev Chem Eng 2018; 35: 669-705.
- Gosu V, Sikarwar P, Subbaramaiah V. Mineralization of pyridine by CWPO process using $nFe^0$/GAC catalyst. J Environ Chem Eng 2018; 6: 1000-1007.
- Gosu V, Dhakar A, Sikarwar P, Kumar UA, Subbaramaiah V, Zhang TC. Wet peroxidation of resorcinol catalyzed by copper impregnated granular activated carbon. J Environ Manage 2018; 223: 825-833.

## Professional Experience:

- Assistant Professor
  Department of Chemical Engineering and Nanotechnology, SVPUAT, Meerut (Present)
- Temporary Faculty
  NIT Raipur (Jan 2022 - Mar 2023)
- Mentor
  Unacademy (Jul 2021 - Jan 2022)
- Lecturer
  RGUKT Basar, Govt. University of Telangana (Jul 2013 - Jan 2015)
  M.I.T.S Gwalior (Jul 2010 - Dec 2010, Aug 2009 - Jun 2010)

## Skills

- Software Packages: Microsoft Office, Aspen Plus, Ansys Fluent, Minitab
- Good experience in safe handling of sophisticated instruments such as UV-Visible Spectroscopy, Gas Chromatography, FT-IR Spectroscopy.
- Languages Known: Hindi (SRW) , English (SRW)

I hereby declare that the information above given is true to the best of my knowledge & belief.

**Prerana Sikarwar**