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ACHIEVMENTS

Best Paper Award (CHEMCON-2024)

DST Fellowship Recipient

MHRD Scholarship Recipient

GUJCOST Financial Grant

EDUCATION

PhD-Chemical Engineering

JULY | 2022 SVNIT, Surat

ME- Chemical Engineering

NOVEMBER 2016

Dr. B.A. M.U. Chh. Sambhajinagar

B.Tech Chemical Engineering

JULY-2013

S.G..G..B.A.U., Amaravati.

RESEARCH OUTCOME

Peer reviewed Research Paper : 08

Desing patent : 02

SOFTWARE & ANALYTICAL TOOLS

HSC CHEMISTRY

PINCH ANALYSIS (HINT)

LANGUAGES

English .Marathi, Hindi

REFERENCES

Dr. V. N. Lad

(Professor & Head) DoCHE, SVNIT, Surat

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Dr. G. R. Kale

Senior Principle Scientist, CSIR-NEERI, Nagpur

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Dr. Suhas Dashrath Doke

CHEMICAL ENGINEERING RESEARCHER & FACULTY

PROFILE SUMMARY

Dedicated and innovative Chemical Engineering professional with a PhD from SVNIT, Surat, bringing strong research credentials tailored for Research and Development (R&D) positions. Proven track record in the synthesis, characterization, and modification of nanomaterials, aerogels, and hydrogels, alongside extensive experience in thermal process optimization (pyrolysis, gasification, combustion). Demonstrated expertise in managing intellectual property with 2 granted design patents and 8 peer-reviewed research publications. Strong leader and problem-solver dedicated to streamlining process operations, chemical parameters optimization, and transforming complex laboratory concepts into validated scalable applications.

SKILLS

- Materials development, process engineering, and sustainable technology initiatives across academic and applied research domains.
- Hands-on experience in materials synthesis, process improvement, reactor development, and thermochemical conversion processes.
- Contributed to the scale-up of laboratory findings into practical solutions with potential industrial applications.
- Applied analytical and experimental approaches to improve process performance, product yield, and operational efficiency.
- Involved in innovation-driven projects, technology assessment, intellectual property generation, and research dissemination activities.
- Demonstrated ability to optimize processes and establish standardized operating methodologies for cost-effective production.
- Successfully coordinated multidisciplinary projects, addressing technical challenges through systematic planning, teamwork, and execution.
- Experienced in technical literature evaluation, patent landscaping, process feasibility assessment, and institutional IPR-related activities.

WORK HISTORY

- Assistant Professor (Gharda Institute of Technology, Lavel)**
January 2022 – Present

I am a Chemical Engineering professional with academic and research experience since 2022, having worked at institutions in Ahmedabad, Pune, and currently at **Gharda Institute of Technology(SinceJULY 2025)**. My work focuses on process development, materials research, technology innovation, and intellectual property creation. I have led research projects, fostered industry collaborations, and contributed to the development of practical engineering solutions with an emphasis on sustainable technologies and research commercialization.

- PhD Research Scholar, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat. (July 2017 – December 2021).**

Conducted intensive laboratory research on "Synthesis, Characterization and Modification in Silica Nanoparticles, Aerogels, and Hydrogels".

Optimized critical wet chemical synthesis parameters to systematically improve the physical and chemical properties of target nanostructures.

- Junior Research Fellow, CSIR-NEERI, Nagpur (February 2016 – July 2017)**

Investigated complex thermodynamic systems, executing experimental studies on biomass pyrolysis, gasification, and combustion processes under varied operating envelopes.

Utilized specialized chemical software packages for the strategic economic and operational optimization of alternative energy generation schemes.

- Project Assistant-II, CSIR-NEERI, Nagpur (July 2015 – February 2016)**

Contributed to multi-step research scaling, data collection, and processing validation for environment-focused industrial projects.