

Name of Faculty Dr. B V S Praveen
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 09.05.2022
 E-mail: bvspraveen_chem@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemical Engineering)	First Class
PG	M.Tech. (Chemical Engineering)	First Class
UG	B.Tech. (Chemical Engineering)	First-class with Distinction

Work Experience

Teaching	07 Years
Research	04 Years
Industry	-
Others	-

Area of Specialization Catalysis, Nanomaterials, chemical mechanical polishing

Professional Memberships IICHE LM - 62470

Responsibilities held at Institution Level --

Responsibilities held at Department Level --

Research Guidance M.Tech: 3 Students B.Tech: 15 Students

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Heat Transfer, Fluid Mechanics, Reaction Engineering, Nanotechnology

No. of Papers Published National Journals – Nil International Journals – 9

National Conference – Nil International Conference – 5

Projects Carried out --

1(granted) 3 (published)
 1. A curved rectangular stack channel heat exchanger (Granted)
 2. Lanthanum doping of ceria abrasive to obtain robust CMP polish rates (Published).
 3. Rotary distillation column for industrial purposes (Published)
 4. Corrugated plate heat exchanger with microwave heating for various industrial applications. (Published).

Technology Transfer --

1. Online Guest lecture on “Applications of nanotechnology in chemical engineering” conducted on 25th September, 2020 at Govt. Polytechnic, Daman.

2. Online Guest lecture on “Importance of utility management in chemical industry” conducted on 10th July, 2020 at Govt. Polytechnic, Daman.

Books
 1. Physical Refining of Membrane Ultrafiltration Degummed Rice Bran Oil. LAP LAMBERT Academic Publishing(2021)

Book Chapters
 1. anotechnology – A multidiversified approach for smart materials
 2. Herbal medicine – A benign and conventional medical system

No. of Books/Chapter Published with details

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops. Other Trainings (Attended and/or Organized).

3. Handbook of marine microbes – The therapeutic prospective and applications.
4. Role of basic sciences in modern engineering education
1. One week online ATAL FDP on “Nanotechnology” from 24.08.2020 to 28.08.2020 at VNIT, Nagpur.
2. One week online ATAL FDP on “Alternate Fuels” from 01.09.2020 to 05.09.2020 at Engineering College, Bikaner.

Details of Journal Publications/ Conferences (National and International)

1. **B.V.S. Praveen**, R. Manivannan, T.D. Umashankar, B.-J. Cho, J.-G. Park, S. Ramanathan, Abrasive and additive interactions in high selectivity STI CMP slurries, *Microelectronic Engineering*. 114 (2014) 98–104.
2. **B.V.S. Praveen**, B.-J. Cho, J.-G. Park, S. Ramanathan, Effect of lanthanum doping in ceria abrasives on chemical mechanical polishing selectivity for shallow trench isolation, *Materials Science in Semiconductor Processing*. 33 (2015) 161–168.
3. **B.V.S. Praveen**, J.-G. Park, S. Ramanathan, Effect of La Doping of Ceria Abrasives for STI CMP, *ECS Trans*. 61 (2014) 27–35.
4. F. Fasmin, **B.V.S. Praveen**, S. Ramanathan, A Kinetic Model for the Anodic Dissolution of Ti in HF in the Active and Passive Regions, *J. Electrochem. Soc.* 162 (2015) H604–H610.
5. N.N. Kumar, **B.V.S. Praveen**, Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, *Int J Adv Eng Sci Appl Math*. 12 (2020) 233–241.
6. S.B. Potdar, **B.V.S. Praveen**, S.H. Sonawane, Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition, *Ultrasonics Sonochemistry*. 68 (2020) 105200.
7. S.B. Potdar, C.-M. Huang, **B.V.S. Praveen**, S. Manickam, S.H. Sonawane, Highly Photoactive Titanium Dioxide Supported Platinum Catalyst: Synthesis Using Cleaner Ultrasound Approach, *Catalysts*. 12 (2022) 78.
8. S.S. Narender, V.V.S. Varma, C.S. Srikar, J. Ruchitha, P.A. Varma, **B.V.S. Praveen**, Nickel Oxide Nanoparticles: A Brief Review of Their Synthesis, Characterization, and Applications, *Chem Eng & Technol*. 45 (2022) 397–409.
9. A.N. Uttaravalli, S. Dinda, B. Bethi, **B.V.S. Praveen**, B.R. Gidla, Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, *Materials Today: Proceedings*. 59 (2022) 120–127.

International Journal from the year 2017

1. N.Nanda Kumar, **B.V.S. Praveen**, Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, *Int J Adv Eng Sci Appl Math*. 12 (2020) 233–241.
2. Shital B. Potdar, **B.V.S. Praveen**, S.H. Sonawane, Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition, *Ultrasonics Sonochemistry*. 68 (2020) 105200.
3. Shital B. Potdar, C.-M. Huang, **B.V.S. Praveen**, S. Manickam, S.H. Sonawane, Highly Photoactive Titanium Dioxide Supported Platinum Catalyst: Synthesis Using Cleaner Ultrasound Approach, *Catalysts*. 12 (2022) 78.
4. S.Sai Narender, V.V.S. Varma, C.S. Srikar, J. Ruchitha, P. Adarsh Varma, **B.V.S. Praveen**, Nickel Oxide Nanoparticles: A Brief Review of Their Synthesis, Characterization, and Applications, *Chem Eng & Technol*. 45 (2022) 397–409.
5. A.N. Uttaravalli, S. Dinda, B. Bethi, **B.V.S. Praveen**, B.R. Gidla, Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, *Materials Today: Proceedings*. 59 (2022) 120–127.

International /National Conferences from the year 2017