

Dr. Vijayendra S. Shetti

Associate Professor, Department of Chemistry, NITK

Education:

- **Ph.D.**, Dept. of Chemistry, Indian Institute of Technology Bombay (IITB), Mumbai, 2011 (Thesis Supervisor: Prof. M. Ravikanth)
- **M.Sc.**, Karnatak University Dharwad, 2003 (First Class with Distinction)
- **B.Sc.**, Karnatak University Dharwad, 2001 (First Class with Distinction)

Professional Experience:

- **Associate Professor** of Chemistry, NITK Surathkal, India (October 2026 to present)
- **Assistant Professor (Grade-I)** of Chemistry, NITK Surathkal, India (Sept. 2019 to Oct. 2026)
- **Assistant Professor** of Chemistry, B.M.S. College of Engineering, Bangalore, India (August 2014 to Sept. 2019)
- **Assistant Professor** of Chemistry, CMRIT, Bangalore, India (Jan. 2014 to July 2014)
- **Postdoctoral Fellow**, Kangwon National University, South Korea (Sept. 2012 to Dec. 2013)
Mentor: Prof. Chang-Hee Lee
- **Postdoctoral Fellow**, IIT Bombay, India (April 2012 to August 2012), Mentor: Prof. M. Ravikanth
- **Postdoctoral Fellow**, National Taiwan University, Taipei, Taiwan (Feb. 2011 to March 2012),
Mentor: Prof. Tien-Yau Luh

Research Credentials:

Grants and Fellowships:

- DST-SERB Core Research Grant (CRG), Govt. of India, **2021-24 (INR 30,01,439)**
Title: *Synthesis of azulene-porphyrin conjugates and their exploration as anti-Kasha-active fluorophores*
- DST-SERB Young Scientist Scheme (YSS) Research Grant, Govt. of India, **2016-19 (INR 28,68,000)** Title: *Synthesis of 2,6-Polyazulenes for organic electronic applications*
- CSIR-NET Fellowship (JRF & SRF), Govt. of India, 2005

Statistics:

- Ph.D.: **Guided: 01**; Currently guiding: 05 + 01 (as a co-guide)
- M.Sc. dissertation guided: 18
- No. of publications in international journals: 28
- Patent granted: 02

Courses Taught:

- CY100N – Engineering Chemistry (for 1st year B. Tech.)
- CY 110 - Chemistry (for 1st year B. Tech.)
- CY 111 - Chemistry Laboratory (for 1st year B. Tech.)
- CY 701 – Analytical Chemistry (for 1st year M.Sc.)
- CY 804 - Spectroscopy Applications in Chemistry (for 2nd year M.Sc.)
- CY 805 - Inorganic Chemistry Practicals-II (for 2nd year M.Sc.)
- CY 874 - Environmental Chemistry (an elective course for 2nd year M.Sc.)

Membership of Professional Bodies:

- Member, American Chemical Society
- Life Member, Chemical Research Society of India (CRSI)
- Life Member, National Magnetic Resonance Society of India

Other relevant information:

- Served as Doctoral Research Programme Committee (DRPC) secretary and as Departmental Post Graduate Committee (DPGC) secretary at Chemistry, NITK
- Served as convener (buyer) for procurement of various scientific instruments and other goods at the Chemistry department since Sept. 2019
- Played an active role at the department while transiting to an online mode of teaching during the COVID-19 pandemic
- Established research laboratories at NITK & BMSCE
- Served as a member of Board of Studies (BoS) at Chemistry dept. BMSCE
- Served as question paper setter/examiner/academic auditor for other academic institutions
- Served as a peer reviewer for international journals
- Many outreach activities in the form of talks, exam evaluation, guiding interns of nearby colleges etc.

Recent research publications:

1. Sikdar, R.; Bhat, V. G.; Dalimba, U. K.; **Shetti, V. S.** Sn(IV) Porphyrin–Azoarene Hybrids Constructed by the “Axial-Bonding” Approach. *ChemistrySelect*, **2026**, 11(3), e04976. <https://doi.org/10.1002/slct.202504976>
2. S. G., S.; Bhat, V. G.; Ranjan, V.; Dalimba, U. K.; Revanasiddappa, B. C.; **Shetti, V. S.** Porphyrin-Azocoumarins: Synthesis, Photophysical, Theoretical, and Biological Studies. *Chemistry – An Asian Journal*, **2026**, 21, e00981. <https://doi.org/10.1002/asia.202500981>
3. Shet, S. N.; Bhat, V. G.; Swathi, S. G.; Dalimba, U. K.; **Shetti, V. S.** Porphyrin–azoheteroarenes: synthesis, photophysical, and computational studies. *RSC Advances*, **2025**, 15, 28240–28247. <https://doi.org/10.1039/D5RA03790E>
4. Shet, S. N.; Murthy, D. H. K.; Chandrappa, S.; Galbao, S. J.; Patil, M.; **Shetti, V. S.** Synthesis, Optoelectronic, and Photoelectrochemical Properties of an Azulene-Bridged Porphyrin Dimer. *ACS Omega*, **2025**, 10, 52473–52482. <https://doi.org/10.1021/acsomega.5c05525>
5. Shet, S. N.; Bhat, V. G.; Hegde, V.; Hegde, G.; Dalimba, U. K.; **Shetti, V. S.** Synthesis, Photophysical, and Computational Studies of Mono-Azo-Bridged, Meso-Tris(2-Furyl/2-Thienyl) Substituted Porphyrin-Arene Hybrids. *ChemistrySelect*, **2024**, 9, e202403181. <https://doi.org/10.1002/slct.202403181>
6. Shet, S. N.; Patil, M.; **Shetti, V. S.** Meso-tris(2-furyl/2-thienyl) substituted porphyrin–ferrocene ‘click’ conjugates: synthesis, experimental, and computational studies. *New Journal of Chemistry*, **2024**, 48, 11349–11359. <https://doi.org/10.1039/D4NJ01788A>

7. **Shetti, V. S.** Conformationally rigid, π -extended annulated porphyrinoids derived from the naphthobipyrrole motif. *Organic & Biomolecular Chemistry*, **2022**, 20, 4452–4470. <https://doi.org/10.1039/D2OB00566B>
8. **Shetti, V. S.** Chemical syntheses and salient features of azulene-containing homo- and copolymers. *Beilstein Journal of Organic Chemistry*, **2021**, 17, 2164–2185. <https://doi.org/10.3762/bjoc.17.139>
9. Alka, A.; **Shetti, V. S.**; Ravikanth, M. Telluraporphyrinoids: an interesting class of core-modified porphyrinoids. *Dalton Transactions*, **2019**, 48(14), 4444–4459. <https://doi.org/10.1039/C9DT00079H>
10. Alka, A.; **Shetti, V. S.**; Ravikanth, M. Coordination Chemistry of Expanded Porphyrins. *Coordination Chemistry Reviews*, **2019**, 401, 213063. <https://doi.org/10.1016/j.ccr.2019.213063>