

Curriculum Vitae

Dr P. PRABU

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Objective:

To work in an organization where innovative teaching methodology is practiced which cultivates the students to match their knowledge with industry needs. Where analytical problem solving skills and application put in for successful completion of organization.

Education and Qualifications:

Doctor of Philosophy :

- Discipline : Chemistry
- University : Vel Tech Dr Rangarajan & Dr Sagunthala R&D Institute Of Science And Technology
- Duration : 2022-2025

Master of Philosophy

- Discipline : Chemistry
- University : Bharathidasan University, Trichy, India
- Institution : Government Arts College, Kumbakonam
- Duration : 2007-2008
- Percentage & Grade : First Class With A+ Grade

Master of Science

- Discipline : Chemistry
- University : Bharathidasan University, Trichy, India
- Institution : AVVM Sri Pushpam College
- Duration : 2004-2006
- CPGA : 7.2 - 1st Class

MASTER OF BUSINESS ADMINISTRATION

- Discipline : **SYSTEM INFORMATION**
- University : **Bharathiar University,**
- Duration : **2009-2011**
- Percentage & Grade : **65.8– 2st Class**

Bachelor Of science

- Discipline : **Chemistry**
- University : **Bharathidasan University, Trichy, India**
- Institution : **HH The Rajas College, Pudukkottai**
- Duration : **2000-2003**
- Percentage & Grade : **75.135– 1st Class with distinction**

Working Experience:

- **Sri Lakshmi Ammal Engineering College, Chennai-73, since 13.10.2008, to June 15.2012.**
- **Indira Institute of Engineering and Technology College, Tiruvallur, from July 25.2012, to 31.5.2014**
- **Vel Tech Avadi from June 15.2015 to 25.01.2020**
- **Assistant Professor in Vel Tech Dr Rangarajan & Dr Sagunthala R&D Institute of Science and Technology, Avadi, since 27.01.2020, to 25.4.23**

Academic Project Details:

Carried out projects during PhD

- **Title:** Bio-Fabricated Metal Oxide Nanoparticles Using *Macropodium Lathyroides (L)* Leaf Extract for Biomedical and Industrial Wastewater Treatment Applications

Carried out projects during M. Phil

- **Title:** Comparative Evaluation of phytochemical constituents and Antimicrobial Properties of *Elettaria Cardamomum* and *Bougainvillea*

Carried out projects during the Master of Science

- **Title:** The Different Salts are Have Different Enhancing Properties Using the Dyeing Field

RESEARCH INTERESTS

Nanomaterials, Green Synthesis of Nanoparticles, Metal Oxide Nanocomposites, Photocatalytic Dye Degradation, Wastewater Treatment, Antimicrobial Studies, Antioxidant Studies, Cytotoxicity Studies, Environmental Remediation, Biomedical Applications of Nanomaterials

LIST OF PUBLICATIONS

1. **Prabu, P.**, Losetty, V., 2025a. Photosynthetic enhancement of organic dye degradation and comparative biological application of plant extract and sustainable NiO nanoparticles. *Inorganic Chemistry Communications* 176, 114267. <https://doi.org/10.1016/j.inoche.2025.114267> (Web of science-Q1 Impact Factor 5.4)
2. **Prabu, P.**, Losetty, V., 2025b. Fabrication of *Macroptilium lathyroides* (L) mediated silver nanoparticles and their structural elucidation, antimicrobial, anticancer, antioxidant, and photocatalytic dye degradation applications. *Journal of Molecular Structure* 1329, 141441. <https://doi.org/10.1016/j.molstruc.2025.141441>, (Web of science-Q2, Impact Factor 4.7)
3. **Prabu, P.**, Losetty, V., 2024a. Eco-friendly synthesis of CuO/NiO nanocomposite and their enhanced photocatalytic organic dyes degradation, antimicrobial, cytotoxicity and antioxidant applications. *Inorganic Chemistry Communications* 169, 113003. <https://doi.org/10.1016/j.inoche.2024.113003> (Web of science-Q1, Impact Factor 5.4)
4. **Prabu, P.**, Losetty, V., 2024b. Green synthesis of copper oxide nanoparticles using *Macroptilium Lathyroides* (L) leaf extract and their spectroscopic characterization, biological activity and photocatalytic dye degradation study. *Journal of Molecular Structure* 1301, 137404. <https://doi.org/10.1016/j.molstruc.2023.137404>, (Web of science-Q2, Impact Factor 4.7)
5. **Prabu, P.**, Losetty, V., Dhanalakshmi, M., Yadav, C.H., Reddy, A.V.B., 2026. Life cycle assessment and environmental impact analysis of polymer nanocomposites, in: *Polymer and Biopolymer Nanocomposites*. Elsevier, pp. 497–515. <https://doi.org/10.1016/B978-0-443-26625-6.00015-2>
6. Dhanalakshmi, M., Losetty, V., **Prabu, P.**, Yadav, C.H., Reddy, A.V.B., 2026. Optical properties of polymer and biopolymer nanocomposites: recent advances and applications, in: *Polymer and Biopolymer Nanocomposites*. Elsevier, pp. 171–191. <https://doi.org/10.1016/B978-0-443-26625-6.00007-3>
7. Kumar, U.R., Thamarai, S., Devipriya, P., **Prabu, P.**, Vinoth, C., 2025. Synthesis and characterization of bismuth-doped cobalt oxide/zirconium oxide nanocomposite for antibacterial, antifungal, and photocatalytic degradation of methylene blue dye for wastewater treatment. *Composite Interfaces* 1–22. <https://doi.org/10.1080/09276440.2025.2512682>
8. Losetty, V., Devanesan, S., AlSalhi, M.S., **Velu, P.P.**, Muthupillai, D., Kumar, K.A., Lakkaboyana, S.K., 2024a. Green synthesis of silver nanoparticles using *Malachra alceifolia* (wild okra) for wastewater treatment and biomedical applications with molecular docking approach. *Environ Sci Pollut Res* 31, 55562–55576. <https://doi.org/10.1007/s11356-024-34872-9>
9. Losetty, V., Dhanalakshmi, M., Devanesan, S., AlSalhi, M.S., **Prabu, P.**, Hazarathaiyah Yadav, C., Chalapathi, U., Park, S.-H., 2024b. Sustainable bioactive copper oxide nanoparticles for enhanced environmental remediation and biomedical solicitations: Experimental and molecular docking investigation. *Inorganic Chemistry Communications* 170, 113338. <https://doi.org/10.1016/j.inoche.2024.113338>

10. Saranya, A., Ashique, H., Sharmila, S., **Prabu, P.**, 2026. Unveiling the Antibacterial Efficacy Mechanism of Dragon Fruit-Mediated Bare and CNT Decorated MgO Nanoparticles against Foodborne Pathogens, in: Sakthivel, P. (Ed.), Proceedings of the National Symposium on Recent Advances in Electronic, Optical and Magnetic Materials, Springer Proceedings in Physics. Springer Nature Switzerland, Cham, pp. 417–430. https://doi.org/10.1007/978-3-032-09633-3_32
11. Losetty, V., Dhanalakshmi, M., Devanesan, S., Wadaan, M.A., Rajasekaran, A., **Prabu, P.**, Chalapathi, U., Lakkaboyana, S.K., 2026. Transgenic Ag/MgO nanocomposite for environmental remediation and biomedical implementations: Prediction of protein-ligand interactions by molecular docking computational study. Synthetic Metals 316, 117995. <https://doi.org/10.1016/j.synthmet.2025.117995>
12. Anand, S., Arasakumari, M., **Prabu, P.**, Amalraj, A.J., 2016. ANTI-DIABETIC AND ALDOSE REDUCTASE INHIBITORY POTENTIAL OF PSIDIUM GUAJAVA BY IN VITRO ANALYSIS. Int J Pharm, Pharm Sci 8, 271. <https://doi.org/10.22159/ijpps.2016.v8i9.13532>

Personal Information:

Father's Name : S. Panneer velu

Date of Birth : 6.4.1982

Sex : Male

Languages Known : English, Tamil, and Malayalam

Marital Status : married

Nationality : Indian

Religion : Hindu

Address : P PRABHU
No. 765, TNHB, Avadi
Chennai-54

Declaration:

I do here by declare that the particulars of information and facts stated here in above are true, correct and complete to the best of my knowledge and belief.

Date:

Place: Chennai

(P. PRABU)

