

**Name** : Dr. V. Nijarubini  
**Designation** : Assistant Professor  
**Department** : Chemistry  
**Qualification** : M.Sc., M.Phil., Ph.D.  
**Experience** : Teaching – 6.7 years | Research – 8 years  
**Specialization**: Corrosion Science  
**Email** : nijarubini.v@drngpasc.ac.in



### Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Chemistry	PSG College of Arts & Science	2024
M.Phil.	Chemistry	PSGR Krishnammal College for Women	2012
M.Sc.	Chemistry	PSGR Krishnammal College for Women	2010
B.Sc.	Chemistry	PSGR Krishnammal College for Women	2008

### Additional Qualifications

Dip./ Cert.	Area of Specialization	Institution / Agency Name	Year
Certificate	Developing Soft Skills and Personality	NPTEL	2019
Certificate	Corrosion – Part I	NPTEL	2018
Certificate	Outcome based pedagogic principles for effective teaching	NPTEL	2017
Advanced Diploma	Textile Chemistry	PSGR Krishnammal College for Women	2008
Diploma	Textile Chemistry	PSGR Krishnammal College for Women	2007
Certificate	Textile Chemistry	PSGR Krishnammal College for Women	2006

### Projects

Project Title	Agency	Amount	Period	Status
Corrosion mitigation of low carbon steel using epoxy/polyurethane – catharanthusroseus as hybrid coating material	GRG Trust	₹ 1,25,000	2020-2022	Completed

## Research Publications

- R. Menaka, V. Nijarubini, K. Sakthivel, P. Kavitha, M. Jannathul Firdouse, Electrochemical investigation and surface interaction of thiophene based Chitosan Schiff base on mild steel surface in 1 M HCl, Materials today Proceedings, March 2024. (Indexed in Scopus)
- V. Nijarubini, J. Mallika, “Application of Silk Protein Hydrolysate as a Potent Anti-Corrosive agent for Mild Steel in HCl Solution” Rasayan Journal of Chemistry, Vol. 16 No. 2, pp. 972-984, June 2023. (Indexed in Scopus)
- V. Nijarubini, J. Mallika, M. Mantharasalan, “Silk Protein Hydrolysate for Corrosion Mitigation of Mild Steel in 1 N H<sub>2</sub>SO<sub>4</sub>” Asian Journal of Chemistry, Vol. 35 No. 2, pp. 352-360, January 2023. (Indexed in Scopus)
- V. Nijarubini, J. Mallika, Data on Anti-Corrosion Properties of Silk Amino Acid on Mild Steel Corrosion in 1N HCl, Conference Proceedings, ISBN No: 978-93-5396-400-9, 2020.
- S. Dheenadhayalan, R. Roja, V. Nijarubini, J. Mallika, “A Mixture of Iodide Ion and Gum Exudates of *Eucalyptus globules* as Green Inhibitor for Dissolution Control of Mild Steel in 1 N HCl Medium” Asian Journal of Chemistry, Vol. 31 No. 3, pp. 585-590, January 2019. (Indexed in Scopus)
- S. Dheenadhayalan, R. Roja, V. Nijarubini, J. Mallika, “Synergistic Effect Between Gum Exudates of *Eucalyptus Globes* and 2,6-Diphenyl-3-Methylpiperidin-4-one on Corrosion Inhibition of MS in 1N HCl”, Oriental Journal of Chemistry, Vol. 34 No. 5, pp. 2570-2576, October 2018. (Indexed in Web of Science)
- S. Dheenadhayalan, V. Nijarubini, M. Malarvizhi, R. Roja, J. Mallika, “Synergistic effect between gum exudates of *Azadirachta Indica* and Semicarbazide on corrosion inhibition of mild steel in 1 N H<sub>2</sub>SO<sub>4</sub> medium”, PSGCAS Search: A Journal of Science and Technology, Vol. 5 No. 2, ISSN: 2349-5456, 2018.
- S. Dheenadhayalan, V. Nijarubini, R. Roja, J. Mallika, “Preparation and Characterization of Alkaline Electroless Ni-B Nano Deposition on Mild Steel in the presence of *Azadirachta Indica* Gum”, Rasayan Journal of Chemistry, Vol. 11 No. 2, pp. 634-639, June 2018. (Indexed in Scopus)
- K. Kalaiselvi, V. Nijarubini, J. Mallika, “Investigation of the inhibitive effects of 1,8-Naphthyridine derivatives on corrosion of mild steel in acidic media”, Rasayan Journal of Chemistry, Vol. 6 No. 1, pp. 52-64, January 2013. (Indexed in Scopus).

### **Presentations in Conference/ Seminar**

- Data on Anti-Corrosion Properties of Silk Amino Acid on Mild Steel Corrosion in 1 N HCl, Advances in Green Chemistry and its Applications, Sri Ramakrishna College of Arts and Science, Coimbatore, 30-Jan-2020.

### **Participation in Conference/Seminar/Workshop**

- Consultancy Programme on 'In Silico Molecular Design and Engineering', Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, 25-Mar-22 to 27-Mar-22.
- Value in Work and Value in Publication: Designing Research with Metonymic Resonance, PSG College of Arts & Science, Coimbatore, 27-Apr-17 to 28-Apr-17.
- Conference on 'Advanced Functional Materials and their Applications in Engineering-(NCAFMAE2017)', Dr. N. G. P. Institute of Technology, Coimbatore, 25-Jan-17.
- Conference on Emerging Education Models for 21<sup>st</sup> Century Learner (NCEEM – 2015), Dr. N. G. P. Arts and Science College, Coimbatore, 1-Aug-15.

### **Participation in Orientation Programme / Short Term Courses**

- Science Academies' Sponsored Refresher Course on 'Theoretical and Computational Chemistry', PSGR Krishnammal College for Women, 10-Jan-2021 to 11-Feb-2021.

### **Participation in Faculty Development Programme**

- FDP on 'Effective Methods of Teaching'- A Practical Approach, PSGR Krishnammal College for Women, Coimbatore, 30-Nov-2021.
- TEQIP-III Sponsored Faculty Development Programme on 'Emerging Trends in Science and Technology-ETST-2018', Coimbatore Institute of Technology, Coimbatore, 10-Dec-18 to 16-Dec-18.
- Quality Initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- AICTE approved FDP (FDP101X) on 'Foundation Program in ICT for Education' Conducted by Indian Institute of Technology Bombay, 3-Aug-17 to 7-Sep-17.

## Participation in Workshop

- One Day Workshop on ‘Rural Immersion - Community Engagement’ Organized by (National Service Scheme) Dr. N. G. P. Arts and Science College & Mahatma Gandhi National Council of Rural Education - MHRD, 21- Sep-19.
- One-day Workshop on ‘Revised Assessment & Accreditation Framework of NAAC’, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, 27-Oct-18.
- Science Academies Lecture Workshop on ‘Advances in Materials Electrochemistry’, Kongunadu Arts and Science College, Coimbatore, 21-Jul-17 to 22-Jul-17.
- Workshop on ‘Analysis of Spectral Data’, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Jan- 17.