

FACULTY PROFILE



Name : **Dr.V.PRATHIPA**

Nationality : Indian

Religion : Hindu

Age and Date of Birth : 32 years / 28-08-1982

Educational Qualification : **M.Sc., M.Phil., Ph.D.,**

Qualification	Institution/University	Division/Specialization	Class & Percentage	Year of Passing
Ph.D	Bharathiar University, Coimbatore	Environmental Science	-----	2014
M.Phil	Bharathidasan University, Trichy	General Chemistry	First Class With Distinction 80%	2007-2008
M.Sc	G.T.N.Arts College, Dindigul	General Chemistry	First Class 72%	2003-2005
B.Sc	G.T.N.Arts College, Dindigul	General Chemistry	First Class 62%	2000-2003

Designation/ Department/College : Assistant Professor/Chemistry/
P.S.N.A.College of Engineering &Technology

Teaching Experience : 8 years & 4 Months

Theory and Practical Papers Teaching:

- Engineering Chemistry
- Environmental Science & Engineering
- Inorganic Chemistry
- Applied Chemistry
- Organic Chemistry
- Physical Chemistry
- Industrial Chemistry
- Research Methodology

Title of the Thesis:

Title of the **Ph.D.** Thesis : Air Pollution and Plant Life

Title of the **M.Phil.** Thesis : Physico - Chemical Analysis of water quality in
Santhanavarthini River due to Discharge of
Industrial Effluent in Seelapadi Village, Dindigul.

Membership in Professional

Bodies : 1. MISTE

2. (IACT) Indian Association of Chemistry Teachers

Research Activities:

Research papers Presented at National

Level Conferences : 23

List of Research Articles Published

In Refereed and Peer Reviewed Journals : 27 Papers

List of Research Articles Communicated

In Refereed and Peer Reviewed Journals : 02 Papers

H – Index : 02

Research Experience : 5 years

Area of Research Interest :

- Environmental Science
- Corrosion Science

**List of Publications in Refereed and Peer Reviewed Journals & Souvenirs
and Proceedings:**

List of Research Articles Published

In Refereed and Peer Reviewed Journals : 27

1. Sarala Thambavani D and **Prathipa V**, A Correlation of particulate matter with gaseous pollutant in ambient air of Dindigul Town, *Asian Journal of Environmental Science*, (2010), **5(2)**, 89-93.
2. Sarala Thambavani D and **Prathipa V**, Physico- chemical characteristics of leather Tannery effluent- current scenario in Dindigul Town (Tamil Nadu), India, *Asian Journal of Environmental Science*, (2011), **6(2)**, 119-124.
3. Sarala Thambavani D and **Prathipa V**, Assessment of Tannery effluent using multiple Indicators, *Asian Journal of Experimental Chemistry*, (2011), **6(2)**, 47-57.
4. Sarala Thambavani D and **Prathipa V**, Bio monitoring of air pollution around urban and Industrial sites, *Journal of Research in Biology*, (2012), **2(1)**, 007-014.
5. Sarala Thambavani D and **Prathipa V**, Assessment of Air Quality through Biomonitors of Selected sites of Dindigul Town by Air Pollution Tolerance Index Approach, *Journal of Research in Biology*, (2012), **2 (3)**, 193-199.
6. Sarala Thambavani D and **Prathipa V**, Assessment of metal enrichments in industrial soil of Dindigul Town, Tamil Nadu, *Asian Journal of Soil Science*, (2012), **7(1)**, 98-103.
7. Sarala Thambavani D and **Prathipa V**, Air quality index for Dindigul Town, *Asian Journal of Environmental Science*, (2012), **7(1)**, 13-20.

8. Sarala Thambavani D and **Prathipa V**, Biological monitoring of road side plants exposed to air pollution, *Asian Journal of Environmental Science*, (2012), **7(1)**, 38- 46.
9. Sarala Thambavani D and **Prathipa V**, Quantitative assessment of soil metal Pollution with principal component analysis, geo accumulation index and enrichment index, *Asian journal of Environmental Science*, (2012), **7(2)**, 125-134.
10. Sarala Thambavani D and **Prathipa V**, Strategies of heavy metal uptake by plants growing under urban Environment, *Asian Journal of Soil Science*, (2012), **7(2)**, 199-206.
11. Sarala Thambavani D and **Prathipa V**, Plant leaf as pollution monitoring device, *Asian Science*, (2012), **7(1)**, 14-20.
12. Sarala Thambavani D and **Prathipa V**, Contamination indices and Heavy Metal Concentration in Urban Soil Dindigul Town, *Plant Archives*, (2012), **12(2)**, 785-793.
13. Sarala Thambavani D and **Prathipa V**, Assessment of metal enrichments in industrial soil of Dindigul Town, Tamil Nadu, *Asian Journal of Soil Science*, (2012), **7 (1)**, 98 -103.
14. Sarala Thambavani D and **Prathipa V**, A study of heavy metal contamination in the urban soil of Dindigul Town, Tamil Nadu, *Asian Journal of Soil Science*, (2012), **7 (2)**, 125-133.
15. Sarala Thambavani D and **Prathipa V**, Evaluation of anticipated index of some plants species for green belt development in an industrial area, *International Journal of Plant sciences*,(2012), **7 (2)**,199-207.
16. Sarala Thambavani D and **Prathipa V**, Heavy metal Contamination in Plants and Soils, *International journal of scientific Research*, (2013), **2(8)**, 59-65.

17. Sarala Thambavani D and **Prathipa V**, Assessing Heavy Metal Contamination in Soils; an Index Analysis Approach, *Journal of Applicable Chemistry*, (2013), **2(4)**,887-897
18. S.Sivakumar, A.Sahaya Raja, J.Sathiyabama, **V.Prathipa**, Spectroscopic methods used for analyzing protective film formed by L-Histidine on carbon steel, *International journal of pharmaceutics and drug analysis.*,**2(7)**, (2014), pp.601-611
19. P.Angel, A. Sahaya Raja, J. Sathiyabama and **V. Prathipa**, Corrosion inhibition of *Vitex Negundo* Extract as a green corrosion inhibitor for carbon steel in well water, *International Journal of Chemical Studies.*, **2(1)**, (2014), pp.31-37.
20. J.Thomas Paulraj, A.Sahaya Raja, J.Sathiyabama, **V.Prathipa**, A Study of *Acalypha Indica* Extract as a Novel Green Inhibitor for Carbon Steel in Aqueous Medium, *International Journal of Green and Herbal Chemistry*, **Vol.3 (3)**, 2014
21. R.Soni Sheeba, A Sahaya Raja, J.Sathiyabama, and **V.Prathipa**, Green Approach to Corrosion Inhibition of Carbon Steel in Well Water by the Extract of *Polyalthia Longifolia*, *Journal of Applicable Chemistry*, **Vol.3 (5)**, 2014 – In Press (Paper Code : JOAC/26 /3 (5)/ 2014)
22. Dr.A.Sahaya Raja, Dr.J.Sathiyabama, R.Venkatesan, Dr.S.Rajendran, **Dr.V.Prathipa**, Evaluation of the inhibition effect of L- Cysteine on the Corrosion of Carbon Steel in aqueous medium, *JAC Journal of science, Humanities and Management*,2014,1(1)
23. A.Sahaya Raja, J. Sathiyabama, R. Venkatesan, **V. Prathipa**, Corrosion Control of Carbon Steel by Eco-Friendly Inhibitor L-Cysteine-Zn²⁺ System in Aqueous Medium, *Journal of Chemical, Biological and Physical Sciences.*, **4(4)**, (2014), pp.3182-3189.

24. A. Sahaya Raja, N. Rajendran, **V. Prathipa**, S. Rajendran, Nano analyses of protective film formed by L-alanine-zinc ion system onto carbon steel, *J. Adv. Chem. Sci.* 1 (2) (2015) pp.78–81.
25. **V. Prathipa**, A. Sahaya Raja, S. Rajendran, Electrochemical study and spectroscopic methods used for analyzing protective film formed by L-alanine on carbon steel in well water: A green approach, *J. Adv. Chem. Sci.* 1 (2), (2015), pp.59–63.
26. **V.Prathipa**, A.Sahaya Raja, A Review on the Assessment of Amino Acids Used As Corrosion Inhibitor of Metals and Alloys, *J. Chem. Bio. Phy. Sci.*, 5(2), (2015), pp.1585-1619.
27. **V. Prathipa**, A. Sahaya Raja, Synergistic and antagonistic effects of L–alanine as green corrosion inhibitor for carbon steel in aqueous medium, *J. Adv. Chem. Sci.* 1 (2), (2015), pp 45–48.
28. Sarala Thambavani D and **Prathipa V**, Assessment of air quality data using air Quality index - a case study, *Iranian Journal of Environmental Health Science & Engineering*, – Accepted. (MS.No: 9993891319112770).
29. A.Sahaya Raja, S.Rajendran, J.Sathiyabama, **V.Prathipa**, S.Anuradha, Synergism and Antagonism in Carbon Steel Corrosion Inhibition by Aminoacetic Acid (Glycine), *International Journal of Nano Corrosion Science and Engineering*,2(2),(2015),pp.58-66 (Article in Press)
30. A.Sahaya Raja, **V.Prathipa**, J.Sathiyabama and S.Rajendran, Studies on the inhibitive effect of L-alanine as eco – friendly corrosion inhibitor for carbon steel, *Asian journal of chemistry*, 2(2),(2015),pp.26-40 (Article in Press)

Publications in Souvenirs and

Proceedings : 23

1. K.Sneka Latha, P.Arulmozhi, **V.Prathipa**, A.Sahaya Raja, M.S.Dheenadayalan, study of Groundwater quality in the noyyal river basin, Tamil Nadu National Conference on Recent Advances in Chemical Sciences, held at Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul on March 5 & 6 – 2015.
2. R.Little Flower, A.Sahaya Raja, J.Sathiyabama, S,Rajendran, **V.Prathipa**, A Comparative study of the inhibitive effect of L-Histidine and L-Cysteine towards corrosion of carbon steel, National Conference on Recent Advances in Chemical Sciences, held at Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul on March 5 & 6 – 2015.
3. P.Kaviya, A.Sahaya Raja, J.Sathiyabama, S,Rajendran, **V.Prathipa**, Synergistic and antagonistic effects of L-alanine as green corrosion inhibitor for carbon steel in aqueous medium, National Conference on Recent Advances in Chemical Sciences, held at Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul on March 5 & 6 – 2015.
4. **V.Prathipa**, P.Arulmozhi, S.Gayasudeen, M.Balamurugan,R.Ram Prasath, S.Geetha, Physico – Chemical Quality of Roof Water Harvesting Rain Water, Two day national conference on current scenario in material Chemistry (CSIMC 2015) held at Jamal Mohamed College Tiruchirappalli on 9th & 10th February 2015
5. **V.Prathipa**, D.Sarala Thambavani, A.Sahaya Raja, M.S.Dheenadayalan, A study of the Physico – chemical characteristics of leather Tannery effluent – Current scenario in Dindigul Town, UGC Sponsored one day National Level Seminar on Recent Advances in Chemistry (RAC -2015) held at GTN Arts College, Dindigul.

6. **V.Prathipa**, D.Sarala Thambavani, A.Sahaya Raja, Measuring Ambient Air Quality Status in Dindigul Town. UGC Sponsored one day National Level Seminar on Recent Advances in Chemistry (RAC -2015) held at GTN Arts College, Dindigul.
7. R.Little Flower, A.Sahaya Raja, J.Sathiyabama, S,Rajendran, **V.Prathipa**, Surface Analysis Study of Carbon Steel Corrosion Protection by L-Alanine – Zn²⁺ System, UGC Sponsored one day National Level Seminar on Recent Advances in Chemistry (RAC - 2015) held at GTN Arts College, Dindigul.
8. A.Sahaya Raja, J.Sathiyabama, S,Rajendran, **V.Prathipa** Studies on Corrosion of Carbon Steel In Aqueous Medium In Presence of L-Alanine – Zn²⁺ System,National Corrosion Council of India (NCCI) in collaboration with CSIR-CECRI and The Gandhigram Rural Institute-Deemed University is organizing the Corrosion Awareness Day 2015 (CAD15) on 17th April 2015, at The Gandhigram Rural Institute - Deemed University, Gandhigram.
9. A.Sahaya Raja, J.Sathiyabama, S,Rajendran, **V.Prathipa** Corrosion Behaviour of Mild Steel in Simulated Concrete Pore Solution Prepared in Well Water in Presence of *Vitex Negundo* Extract: A Green Approach, National Corrosion Council of India (NCCI) in collaboration with CSIR-CECRI and The Gandhigram Rural Institute-Deemed University is organizing the Corrosion Awareness Day 2015 (CAD15) on 17th April 2015, at The Gandhigram Rural Institute - Deemed University, Gandhigram
10. L- Cysteine as a green corrosion inhibitor for carbon steel in well water, A.Sahaya Raja, R.Soni Sheeba, R.Venkatesan, J.Sathiyabama, S.Rajendran, **V.Prathipa**, UGC sponsored national level seminar on Recent Advances in Chemistry held at Dept.of chemistry, A.P.A.College of Arts and Culture, Palani on 11 August 2014.

11. Corrosion inhibition of *Vitex Negundo* Extract as a green corrosion inhibitor for carbon steel in well water, A.Sahaya Raja, P.Angel, J.Sathiyabama¹, **V.Prathipa**, DST sponsored National seminar on Modern Trends in Chemistry-MTC-II'' Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014
12. A Study of *Acalypha Indica* as a novel green inhibitor for carbon steel in aqueous medium, A.Sahaya Raja, J.Thomas Paulraj, J.Sathiyabama, **V.Prathipa**, DST sponsored National seminar on Modern Trends in Chemistry-MTC-II'' Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014
13. Green approach to corrosion inhibition of carbon steel by the extract of *Polyalthia Longifolia*, A.Sahaya Raja, R.Soni Sheeba, J.Sathiyabama, **V.Prathipa**, DST sponsored National seminar on Modern Trends in Chemistry-MTC-II'' Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014
14. Investigation of carbon steel corrosion inhibition by L-Cysteine-Zn²⁺ System, A.Sahaya Raja, R.Venkatesan, J.Sathiyabama, **V.Prathipa**, DST sponsored National seminar on Modern Trends in Chemistry-MTC-II'' Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014
15. Spectroscopic methods used for analyzing protective film formed by L-Histidine on carbon steel, A.Sahaya Raja, S.Sivakumar, J.Sathiyabama, **V.Prathipa**, DST sponsored National seminar on Modern Trends in Chemistry-MTC-II'' Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014.

- 16.** Physicochemical Characteristics of Mullai Periyar River Near Cumbum, Uthamapalayam Taluk and its impact on the adjoining ground water in Theni district, **V.Prathipa** & M.S.Dheenadayalan, International Workshop and Conference on Renewable Energy and Climate Change-Exploring opportunities for sustainable Development held at School of Energy, Environment and Natural Resources, Madurai Kamaraj University during 5th to 7th April 2014
- 17.** A.Sahaya Raja, R.Soni Sheeba, R.Venkatesan, J.Sathiyabama, S.Rajendran, **V.Prathipa**, L- Cysteine as a green corrosion inhibitor for carbon steel in well water, UGC sponsored national level seminar on Recent Advances in Chemistry held at Dept.of chemistry, A.P.A.College of Arts and Culture, Palani on 11 August 2014.
- 18.** A.Sahaya Raja, P.Angel, J.Sathiyabama, **V.Prathipa**, Corrosion inhibition of *Vitex Negundo* Extract as a green corrosion inhibitor for carbon steel in well water , DST sponsored National seminar on Modern Trends in Chemistry- MTC-II’ Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014.
- 19.** A.Sahaya Raja, J.Thomas Paulraj, J.Sathiyabama,**V.Prathipa** A Study of *Acalypha Indica* as a novel green inhibitor for carbon steel in aqueous medium, DST sponsored National seminar on Modern Trends in Chemistry- MTC-II’ Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014.
- 20.** A.Sahaya Raja, R.Soni Sheeba, J.Sathiyabama,**V.Prathipa** Green approach to corrosion inhibition of carbon steel by the extract of *Polyalthia Longifolia*, DST sponsored National seminar on Modern Trends in Chemistry- MTC-II’ Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014.

21. A.Sahaya Raja, S.Sivakumar, J.Sathiyabama, **V.Prathipa** Spectroscopic methods used for analyzing protective film formed by L-Histidine on carbon steel, DST sponsored National seminar on Modern Trends in Chemistry- MTC-II” Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of Engineering and Technology on 24th &25th July 2014.
22. A.Sahaya Raja, R.Venkatesan, J.Sathiyabama, **V.Prathipa** Investigation of carbon steel corrosion inhibition by L-Cysteine-Zn²⁺ System, DST sponsored National seminar on Modern Trends in Chemistry- MTC-II” Newer Perspectives in Nano and Green Chemistry held at Department of chemistry, P.S.N.A.College of engineering and Technology on 24th &25th July 2014.
23. AIR QUALITY INDEX FOR DINDIGUL TOWN, **V.Prathipa**, National seminar on Global warming, organized by Velammal College of Engg & Tech on 14 Oct 2010 at Madurai.

National &International Conferences Attended : 06

1. International Conference on CINCOBS-2012. Annamalai University on 16-18th Feb 2012 at Chidambaram.
2. National seminar on Modern Trends in Chemistry (MTC)-2012. PSNACET on 23-24th Feb 2012 at Dindigul.
3. International workshop in Prist University on 5th January 2012 at Thanjavur.
4. National Symposium on recent developments in Chemistry. Srinivasan College of Arts & science on 25th Feb 2012 at Perambalur.

5. National Conference in Bishop Heber College on 11th January 2012, Trichy.
6. International ground water Conference in Yadava College on 27-30th Sep 2011 at Madurai.

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Office Address : **Dr.V.Prathipa., M.Sc., M.Phil., Ph.D.,**
Assistant Professor, Department of Chemistry,
P.S.N.A.College of Engineering &Technology
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Tamil Nadu, India