

# **Thiruvalluvar Government Arts College, Rasipuram**

## **DEPARTMENT OF CHEMISTRY**

### **STAFF PROFILE**

#### **ABSTRACT**



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|----------------------------------------|----------------------------|---------------------|
| 1. Name                                | : Dr. V. Manivannan        |                     |
| 2. Designation                         | : Assistant Professor      |                     |
| 3. Education Qualification             | : M.Sc.,M.Ed.,M.Phil.,Ph.D |                     |
| 4. Teaching Experience                 | : 29 Years                 |                     |
| 5. Research Experience                 | : 11 Years                 |                     |
| 6. Area of Research                    | : Corrosion studies        |                     |
| 7. University Guideship<br>Approval No | : PU/R/RD3/06147/2015      | dated<br>08.10.2015 |
| 8. Fellowship Awarded                  | : -                        |                     |
| 9. Minor/Major Research Project        | : -                        |                     |
| 10. Research Paper Published           | : International:6          | ; National:2        |
| 11. Seminar/ Conference/ Workshops     | : Organized: 3             | ; Attended: 19      |
| 12. Journals Review                    | : International:12         | ; National:         |
| 13. Books Published                    | : 3                        |                     |

**EDUCATIONAL QUALIFICATION:**Date of Joining : 27.07.2015

Teaching Experience : 29 years 7 months

| S. No | From<br>DD/ MM / YY | To<br>DD/ MM / YY | Name of the<br>Institution                                       | Total Years           |
|-------|---------------------|-------------------|------------------------------------------------------------------|-----------------------|
| 1.    | 27.11.1996          | 23.07.2001        | M.P.N.M.J.<br>Polytechnic College,<br>Chennimalai,Erode          | 4 Years 8<br>months   |
| 2.    | 24.7.2001           | 25.07.2015        | Paavai Engineering<br>and College of<br>Engineering,<br>Namakkal | 14 Years              |
| 3.    | 27.07.2015          | Till date         | Thiruvalluvar Govt.<br>Arts College,<br>Rasipuram, Namakkal      | 10 years 11<br>months |

Research Experience : 11 Years

Topic of Research : Electro chemistry, Synthesis of Polymers

Research Guidance :

M.Phil - Awarded :  
M.Phil - Ongoing :2  
Ph.D - Awarded :1  
Ph.D - Ongoing :2

Courses Attended :

| Name of the<br>Course               | Academic Staff College,<br>University                                             | Duration in Days                                           | From – To<br>(Mention Date<br>here) |
|-------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|
| Orientation<br>Course               | UGC-HRDC<br>Bharathiar University,<br>Coimbatore                                  | 28 days                                                    | 16-12-2016 to<br>12-01-2017         |
| Refresher<br>Course in<br>Chemistry | UGC-HRDC<br>Bharathiar University,<br>Coimbatore                                  | 21 days                                                    | 04-07-2018 to<br>24-07-2018         |
| Refresher<br>course in<br>Chemistry | SWAYAM Arpit online<br>course, S.G.T.B. Khalsa<br>College, University of<br>Delhi | 40 hours<br>programme with<br>20 hours of video<br>content | 01-12-2020 to<br>31.03.2021         |

|                                       |                                                                                                                                                    |         |                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------|
| Refresher Course in Multidisciplinary | Smt. RadhadeviGoenka College for Women and Guru AngadDev TLC, SGTB Khalsa College, University of Delhi under the PMMMNMTT of Ministry of Education | 15 days | 22-06-2021 to 06-07-2021 |
| Refresher Course in Chemistry         | UGC-HRDC University of Madras, Chennai                                                                                                             | 14 days | 14-09-2022 to 27-09-2022 |
| Refresher Course in Chemistry         | UGC- Gujarat University, Ahmedabad                                                                                                                 | 13 days | 16/06/2025 to 28/06/2025 |

Member in Academic/ Editorial Board/ Reviewer in Journals :

Life Member in Indian Society for Technical Education(LM 89469)

List of Publication :

1. "Inhibition of mild steel corrosion in groundwater medium by pyrrole and thienylcarbonyl benzotriazoles", J. Applied Electrochemistry, 39 (2009) 269-276, Impact factor:1.54, Publishers: Springer.
2. Electrochemical and surface characterization studies of new triazole derivatives on mild steel, Asian Journal of chemistry, 25(2012),957-961.
3. Study on the corrosion inhibition of mild steelazole derivative, phosphono derivative and bivalent cation, Indian Journal of Research,1(6),2012,61-63.
4. Effect of temperature on the corrosion inhibition of 3-phosphonopropionic acid on mild steel in ground water, Chemical Science Transactions, 1(3),2012,618-623.
5. Comparative Study on the Corrosion Inhibition of Mild Steel by Triazole Derivative and Phosphono Derivative in Ground Water Media, Coromandal Journal of Science, 5Vol. 1, No. 1, December 2012. pp.17-19.
6. Study on the Corrosion Inhibition of Mild Steel by Phosphono and Benzotriazole derivative in Ground water media , Global Research Analysis, Feb,2013, Volume2, Issue2.,
7. Effect of inhibitors on corrosion control of mild steel in natural aqueous environment, Asian Journal of Chemistry . Vol 25, No.17, 9743-9747,2013
8. Corrosion and Corrosion Inhibition of Mild Steel in Groundwater at Different Temperatures by Newly Synthesized Benzotriazole and Phosphono Derivatives Industrial & Engineering Chemistry Research,ACS Publications, 2014 53 (11), 4286-4294

9. Efficient degradation of picric acid using rGOMnO<sub>2</sub> hybrid nanocomposite under different light conditions, Journal of Physics: Conference Series, 2021, 2070, 1-14
10. Synthesis, Characterisation and Antimicrobial Evaluations of Acetyloxyphenyl-1, 2, 3-triazole Linked Hexahydro Acridinediones  
P Shanmugasundaram, R Sujatha, MV Aanandhi, V Manivannan, ...  
Journal of Pharmaceutical Research International 34 (10B), 1-10, 2022
11. Facile construction of efficient WO<sub>3</sub>/V<sub>2</sub>O<sub>5</sub> coupled g-C<sub>3</sub>N<sub>4</sub> ternary composite photocatalyst for environmental emergent aqueous pollutant degradation: Stability ...  
K Shanthini, V Manivannan, R Govindan, L Praburaman, LA Al-Humaid, ...  
Environmental Geochemistry and Health 46 (10), 376, 2024
12. Ternary Z-scheme g-C<sub>3</sub>N<sub>4</sub>/Co<sub>3</sub>O<sub>4</sub>/CuO heterostructure photocatalyst for high-performance methylene blue degradation under visible light  
K Shanthini, V Manivannan, R Govindan  
Diamond and Related Materials, 113186, 2025

#### Papers Presented in Seminars/ Conferences/ National/ International:

1. Presented a paper entitled "Evaluation of corrosion and scaling tendency of ground waters in Salem area, Tamilnadu" in the national seminar on Chemistry education and research and national convention of chemistry teachers (NCCT-13) -November 8- 10, 2013 in Annamalai University, Chidambaram
2. Presented a paper in the National conference on "Emerging Trends in Chemical Sciences" held on 18<sup>th</sup> April 2012., Gnanamani College of Engineering, Namakkal
3. Presented a paper entitled New synthesized triazole derivatives as corrosion inhibitors for mild steel in **the International conference** on recent advanced materials (ICRAM-2012) organized by VIT University during 20-22 Feb 2012.
4. Presented a paper entitled "Evaluation of corrosion nature of mild steel in ground water" in the National conference held on 6-7 Feb 2012, organized by centre for Nanoscience and Nanotechnology, Periyar University, Salem.
5. Presented a paper entitled "A corrosion inhibition study of iron by phosphonic acid derivatives and bivalent cation" in the **International conference** on Advanced Materials(ICAM 2012), 5-7<sup>th</sup> January, 2012, Loyola college, Chennai.
6. Protection of mild steel corrosion with new triazole derivatives in ground water medium, National Conference on Recent and Emerging Developments in Physics (NCREDP), Women's Christian College, Nagercoil, 7-9 January (2010), India.

7. A study on new benzotriazole derivatives as inhibitors for copper corrosion in ground water environment, National Seminar on Recent Advances in Textile and Electrochemical Sciences (**RATES - 2007**), Karaikudi, 1-2 June 2007.
8. Inhibition of mild steel corrosion in ground water by the combination of Triazole and Phosphonate, National Conference on Recent Advances in Chemistry (RAC - 2007), Salem, 1-2 March 2007
9. Presented a paper in the **International conference** titled “Solid waste management and recycling” in 8<sup>th</sup> Asian Academic Network for Environmental safety and waste management (AANESWM) on December 10-12, 2006 organised by Anna University, Chennai, India.
10. Evaluation of scale and corrosion characteristics of ground water, **International Symposium** on Advances in Electrochemical Science and Technology (ISAEST-8), Goa, 28-30 November (2006).
11. Presented a paper in the state level seminar on recent trends in physical sciences conducted by Vivekanda college of arts and sciences for women, Namakkal on 23<sup>rd</sup> August 2006.
12. Nanoscale research and development and its implications for the Indian economy, National seminar on recent advances in nano science and technology (RANSAT –2005), Periyar University, Salem, 29 -30 September (2005).

#### Participation in Seminar/ Conferences/ Workshop:

1. Attended National workshop on advanced techniques for corrosion studies, 5-7<sup>th</sup> January, 2006 at Alagappa University, Karaikudi. Tamilnadu, India.
2. Attended Seminar on Recent Advances in Chemical Sciences (RACS-2009), March 23<sup>rd</sup> & 24<sup>th</sup>, 2009, Periyar University, Salem, India.
3. Attended TNSCT sponsored Workshop on “ Accreditation – A Quality Education” organized by SSM College of Engineering, Namakkal District on 29.09.2006.
4. Attended One day National seminar on “Recent trends in Chemistry” held on 20<sup>th</sup> March 2012 organised by Periyar University.
5. Attended a one day National Seminar on ‘**Applications of Polymer Nanocomposite Materials in Various Fields (APNM 2011)**’ organized by Kongu Engineering College, Erode .

6. Attended two days National workshop on “ Modern trends in Chemistry” on 13-14, August,2012 organised by Centre for nanoscience. Periyar University, Salen
7. Attended one day seminar in Govt. Arts College , Salem-7 on     Conducted by the Department of Chemistry.

#### Books Published:

1. Engineering Chemistry I - From 2011,2012 & 2014 - ISBN No 978-93-80624-48- 8     - 3 volumes
2. Engineering Chemistry-II – from 2012 to 2015- ISBN no.978-93-80624-61-7 - 4 volumes
3. Engineering Chemistry Laboratory Manual – 2014

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