

**Dr. T.GOWRANI**

Name : Dr. T.GOWRANI  
Designation : Assistant Professor  
Date of Birth : 11-05-1978  
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Educational Qualification :

| Course | Major subjects | Board/University/Institution                       | Year of passing |
|--------|----------------|----------------------------------------------------|-----------------|
| B.Sc   | Chemistry      | Sri G.V.G. Visalakshi College for women, Udumalpet | 1999            |
| M.Sc   | Chemistry      | P.S.G.R. Krishnammal college for women, Coimbatore | 2001            |
| M.Phil | Chemistry      | P.S.G.R. Krishnammal college for women, Coimbatore | 2003            |
| B.Ed   |                | Tamilnadu Teachers Education University            | 2009            |
| Ph.D   | Chemistry      | Mother Teresa Women's University, Kodaikannal      | 2016            |

Teaching Experience : 11 years  
Research Experience : 06 years  
Area of Specialization : Electrochemistry, Polymer science, Corrosion science

### **Seminar, Workshop, Conference attended**

- Attended State level seminar on “Nuclear energy, Nuclear reactors and Their Safty- An Overview” organized by Physical and Life Science Departments, APA College for women ,Palani on 26<sup>th</sup> Dec-2011.
- Attended UGC and TANSCH- Sponsored National Conference on Recent Developments in Green chemistry (NCRDGC-2013) on 18<sup>th</sup> ,19<sup>th</sup> Dec-2013.
- Attended UGC Sponsored One day state level Workshop cum Hands on training VERMITECH’14 organised by Department of Zoology,NGM college Pollachi on 14<sup>th</sup> August 2014.
- Attended Workshop on “Corrosion and its control” organized by National Corrosion Council Of India, Karaikudi in Collaboration with CSIR-Central Electrochemical Research Institute Karaikudi and PSGR Krishnammal College For Women Coimbatore, at Department of Chemistry, PSGR Krishnammal College For Women Coimbatore, on 30<sup>th</sup> June and 1<sup>st</sup> July 2016.
- Attended “National Seminar On Empowering The Youth To Enrich Mankind” organized by human excellence Department, NGM College, Pollachi on 29<sup>th</sup> Jan-2016.
- Attended National level Workshop On “ SUSTAINABLE AGRICULTURE” organized by Department of Zoology, NGM College, Pollachi on 03<sup>rd</sup> Nov 2018.

### **Faculty development program attended**

- Attended “High Impact teaching” conducted by Academy For Professional Development on 7<sup>th</sup>-9<sup>th</sup> November 2012 at NGM College, Pollachi.
- Attended “Orientation and Retraining of Teachers” programme organized by APA Colleg for Women, Palani, on 2<sup>nd</sup> Feb-2013.

### **Paper presented**

- **Presented** a paper entitled as “E-waste Potential Pollutants and their Management” in Manitha Nalanil Sutruclulal organized by Vazhiya Ulaga Nala Narpani mandram,Palani on Dec 23<sup>rd</sup> 2012.
- **Presented** a paper entitled as “Corrosion Inhibition on low carbon steel by Fluconazole-Zn<sup>2+</sup> system in neutral aqueous environment” in Regional Science Congress on Science for Shaping The Future Of India organized by Indian Science

Congress Association Coimbatore and Kongunadu Arts and Science College, Coimbatore on Dec-15<sup>th</sup> -16<sup>th</sup> 2012.

- **Presented** a paper entitled as “Waste to Health-An Analysis” in National Conference on Innovative Approaches in Bioscience, Chemical and Physical science for sustainable growth(IABSCPSG’13) organized by Biotechnology, Microbiology, Physics and Chemistry, Maharaja Co-education Arts and Science College,Perundurai on 31<sup>st</sup> Jan and 1<sup>st</sup> Feb 2013.

**Presented** and Received the Best Paper Award for the a paper entitled as “ Surface Characterization of Low carbon Steel Inhibited from Corrosion by Fluconazole-Zn 2+ system in neutral aqueous environment” in Inter National Conference on Surface Engineering for Research and Industrial Applications, Interfinish-SERIA 2013 organized by Rajalakshmi Institutions, Chennai, held on 7-9 August 2013.

- **Presented** a paper entitled as “Advanced approach of cheminformatics for unstructured data” in International Conference on Advances In Numerical Analysis And Applied Mathematics organised by APA College for Women, Palani held on 24th August, 2013.
- **Presented** a paper entitled as “Surface Modification on Brass by Nano level coating of Pharmaceutical grade Clotrimazole in aqueous media” in CSIR Sponsered National Conference on “Global opportunities for recent developments in science and technology” organized by Department of Biochemistry, Rev.Jacob Memorial Christian College, Ambilikkai held on 8th February, 2014.
- **Presented** a paper entitled as “Corrosion inhibition of azole derivative on brass in Neutral medium” Presented in UGC Sponsored National level seminar on “Recent Advances In Chemistry” organised by Department of Chemistry, APA College OF Arts and Culture, Palani on 11<sup>th</sup> August 2014.
- **Presented** a paper entitled as “ The Influence Of Benzotriazole Derivative on Dezincification of Brass in NaCl Solution” in the TEQIP - II sponsored National Conference on “Advancement in Material Science” organized by Department of Chemistry, Coimbatore Institute of Technology, Coimbatore, held on 26th and 27th September, 2014.

- **Presented** a paper entitled as “Synergistic effect of Aminotrimethylene phosphonic Acid and  $\text{Cd}^{2+}$  on mild steel in aqueous environment” Presented in UGC Sponsored National level Conference on “Recent Trends In Medicinal Chemistry” organised by PG and Research Department of Chemistry, Government Arts College Coimbatore on 19<sup>th</sup> and 20<sup>th</sup> February 2015.
- **Presented** a paper entitled as “Inhibitive properties and thermodynamic characterization of azoles derivative on brass corrosion in aqueous medium” Presented in National level seminar on “The Widening Horizons of Chemistry – III (TWHC-III-2015)” organised by Department of Chemistry, APA College for Women, Palani on 5<sup>th</sup> March 2015.

#### **Paper published in journals**

- **T.Gowrani**, J.Yamuna, K.Parameswari, S.Chitra, A.Selvaraj and A.Subramania ., “The influence of benzoyl hydrazine and some of its substituents on corrosion inhibition of carbon steel in sulphuric acid solution” Anti-Corrosion Methods and Materials, Volume 51, Number 6(2004) pp414–419. Emerald Group Publishing Limited · ISSN 0003-5599  
**.CITED BY 13**
- **T. Gowrani**, “Effect of 5-Methylbenzotriazole on the Corrosion Inhibition of Brass in NaCl Solution”  
Chemical Science Transactions, 3, 3, (2014) 1007-1012. DOI:10.7598/cst2014.857.  
IMPACT FACTOR : 0.3966
- **T.Gowrani**, P.Manjula, Nirmala Baby, K.N.Manonmani, R.Sudha, T.Vennila, “Enhanced Synergistic Effects of Trisodium 2-Hydroxypropane-1,2,3-tricarboxylate on the Inhibition Efficiency of 5-methyl benzotriazole System on Brass in Aqueous Environment” European Journal of Biomedical and pharmaceutical sciences, 1, 2, (2014) 98-107. IMPACT FACTOR : 2.062
- **T.Gowrani**[a]\*, P.Manjula[b] , Nirmala Baby[c], K.N.Manonmani[d], R.Sudha[e], T.Vennila[e], “Thermodynamical Analysis Of MBTA On The Corrosion Inhibition Of Brass In 3% NaCl medium.”  
Int. J. Nano. Corr. Sci. Engg., 2(1) (2015). **CITED BY 21**
- **T.Gowrani**, P.Manjula, “Theoretical and Experimental Investigations on Corrosion Control of 60Cu-40Zn Brass in chloride Environment” Chem Sci Rev Lett., 2015, 4(16), 1098-1107.

IMPACT FACTOR :1.062

- **T.Gowrani** “ Influence of biocides on corrosion inhibition efficiencies of inhibitor system on brass in neutral medium” , European Journal of Biomedical and pharmaceutical sciences, 2017, Volume 4, Issue 11 , 345-354.
- **T.Gowrani**, “Effect Of Sodium Gluconate And Benzotriazole Derivative As Synergist on Inhibition Efficiency of Brass Corrosion In 3% Nacl Solution” IJSART (International journal for science and advance research in technology), Volume4,Issue 1,JANUARY 2018, ISSN [ONLINE]: 2395-1052.
- **T.Gowrani**, “Synergistic Effects of Sodium Molybdate and Azole Derivative on Corrosion of Brass in 3% NaCl Solution” IJRASET (International Journal for Research in Applied Science & Engineering Technology) Volume 6, Issue II, February 2018, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887.