

## Faculty Profile



**Name** : C.Mary Anbarasi

**Designation** : Associate Professor

**Department** : Chemistry

**Date of Birth** :22.02.1968

**Date of Appointment:**26.11.1993

### *Academic*

S. N	Degree	University / Institution	Year of Completion
1	B.Sc	Holy Cross College, Nagercoil	1988
2	M.Sc	St. Joseph's College, Trichy	1990
3	M.Phil	St. Joseph's College, Trichy	1991
4	Ph.D	GTN Arts and Science College, Affiliated to Madurai Kamaraj university, Madurai	2014

**Total Experience:** UG :24 years PG: 09years

**Area of Specialization/Interest:** *Electrochemistry & Corrosion*

**Professional Affiliation:** 2008-09 and 2009-10- Youth Welfare Cell and IQAC member

2012-13, 2014-15, 2015-16, 2016-17 and 2017-18 Current Events Club staff advisor, 2013-14 Campus Ministry, 2014-15 ,2015-16, 2016-17, 2017-18, 2018-19 and 2019-20 IQAC member, 2018-19 and 2019-20 and 2020-21 Research Committee member, 2020-21 Women cell coordinator

**Member in Other Bodies :** Question setter, M.Phil project Viva-Voce Examiner for M.T. University , Reviewer for International Research Journal of Pure and Applied Chemistry, American Chemical science Journal, ,Physical Science International Journal. Editor to International Journal of Nano Corrosion Science and Engineering, Board of studies member at G.T.N. Arts College, Dindigul

**Resource Sharing** : Served as Judge for the district level Science Exhibition organized by RMSA for Kallar and Government High Schools and Higher Secondary Schools in Theni district on 20.11.2013, at Presentation Convent Higher Secondary School, Theni.

Served as Resource Person in the State level Inter Collegiate Meet EPISTEME – 2018, on 16.02.18, at Thiravium College of Arts and Science for Women, Kailasapatti.

Served as Resource Person and delivered a lectures on the topic Chemistry in everyday life on 22.02.19, in the Inservice Training Programme for Science teachers, Theni District, catalysed and supported by Tamil Nadu State Council for Science and Technology (TNSCST), Chennai

### **Research Publications :**

#### **International Publications:14**

1. Y. Yesu Thangam, M. Kalanithi, **C. Mary Anbarasi** and S. Rajendran “Inhibition of corrosion of carbon steel in dam water by sodium molybdate -  $Zn^{2+}$  system” *The Arabian Journal for Science and Engineering* 34-2C( 2009) 41-60

2. **C. Mary Anbarasi** and S. Rajendran, “Corrosion behaviour of carbon steel in Hexane Sulphonic acid” *International Journal of Advances in Engineering, Science and Technology*, 1 (2011) 22-29

3. **C. Mary Anbarasi** and Susai Rajendran “,Inhibition of corrosion of carbon steel by heptane sulphonic acid  $Zn^{2+}$  system” *Journal of electrochemical science and engineering* 2(1) (2012) 1-18

4. **C. Mary Anbarasi**, Susai Rajendran, N. Vijaya, M. Manivannan and T. Shanthi, “Corrosion inhibition by an ion pair reagent-  $Zn^{2+}$  system” *Open corrosion Journal* 5 (2012) 1-7

5. **C. Mary Anbarasi** and Susai Rajendran, “Surface analysis of inhibitor film formed by Butane sulphonic acid –  $Zn^{2+}$  system on carbon steel in aqueous medium” *Asian journal of chemistry* 24,11(2012),5029-5034

6. **C. Mary Anbarasi** and Susai Rajendran, “Investigation of the inhibitive effect of Octane sulphonic acid-Zinc ion system on corrosion of carbon steel” *Chemical engineering and communication*, 199:12,(2012) 1596-1609

7. **C. Mary Anbarasi**, S. Rajendran, M. Pandiarajan, and A. Krishnaveni, “An Encounter with Corrosion inhibitors, *European chemical Bulletin*, 2(4), (2013) 197-207

8. **C. Mary Anbarasi** and Susai Rajendran “Electrochemical and AFM study of corrosion inhibition of carbon steel by Octane sulphonic acid – Zinc ion system” *International journal of current engineering and technology*, vol.3 No.5 (December 2013) ISSN 2277-4106

9. **C. Mary Anbarasi** and Susai Rajendran, “Surface protection of carbon steel by Hexane sulphonic acid – Zinc ion system”, *ISRN Corrosion*, (2014) 1-8.

10. **C. Mary Anbarasi**, “The Need of Skill Development in Higher Education “ *International Journal of Education and Research*, ISSN No.0972-1231, Vol.48(4) pp. 80-85, December 2015

11. **Mary Anbarasi C** and Jerli Auxilia A "Surface Modification of Carbon Steel by Hexanesulphonic Acid-  $\text{Ni}^{2+}$  System and its Corrosion Study" International Journal of ChemTech Research Vol.9, No.01 pp 218-225, 2016 ISSN: 0974-4290

12. Divya G., Sathiya M. and **Anbarasi C. Mary** "Inhibition of Corrosion of Carbon Steel in Aqueous Medium using Naval Leaf Extract" International Journal of Research in Chemistry and Environment Vol. 6 Issue 1 (1-7) January 2016 ISSN: 2248-9649

13. **C. Mary Anbarasi** and G. Divya "A Green approach to corrosion inhibition of aluminium in acid medium using azwain seed extract" ELSEVIER Journal Materials Today: Proceedings 4(2017) pp. 5190-5200

14. Dr. C. Mary Anbarasi and K.S Suruthi "Chrysanthemum Flower Extract as a Green Inhibitor for Aluminium Corrosion in Alkaline Medium" International Journal of Chem Tech Research ISSN: 0974-4290, ISSN (online): 2455-9555, Vol. 11(7), July 2018, pp.37-44

### ***National Publication:12***

1. **C. Mary Anbarasi** and Susai Rajendran, "Surface protection of carbon steel by Pentane sulphonic acid-  $\text{Zn}^{2+}$  system" Journal of the electrochemical society of India, 60-3 (2011) 115-122

2. **C. Mary Anbarasi** and S. Rajendran, "The Influence of Heptanesulphonic acid - Curcumin system on the corrosion of carbon steel in aqueous solution" Coatings & Anti Corrosion Engineering Review 2-6 (2012) 30-33

3. **C. Mary Anbarasi** and Susai Rajendran, "Surface Protection of Carbon Steel by Butanesulphonic Acid-Zinc ion System" Research Journal of Chemical Sciences 2(12), (2012) 21-26

4. **C. Mary Anbarasi** and Susai Rajendran "Electrochemical and AFM study of self-assembled monolayers of Hexanesulphonic acid on carbon steel" Journal of Science, Humanities and management vol.1 No15 (December 2013) ISSN 2347-9868

5. **C. Mary Anbarasi** and Susai Rajendran "Inhibitive Effect Of Butanesulphonic Acid- $\text{Zn}^{2+}$  System On Carbon Steel Corrosion In Aqueous Solution" Journal of Science, Humanities and management. ISSN 2347-9868, pp 67-78.

6. **C. Mary Anbarasi** "Electrochemical and Surface Analysis Studies on Corrosion Inhibition of Carbon Steel by Octanesulphonic Acid -Betanin System" Journal of Science, Humanities and management. ISSN 2347-9868, Vol.2 No.1 pp 63-77

7. S. Anitha, G. Divya, M. Mala Jency, M. Sathiya and **C. Mary Anbarasi**, "Inhibition of Corrosion Carbon steel in Aqueous Medium using Papaya leaf extract" Journal of Science, Humanities and management. ISSN 2347-9868, Vol.3 No.1 Dec.2015 pp 1-14

8. M. Alagumani, K. Sowmiya and **C. Mary Anbarasi** "Surface Modification of Carbon Steel by Octanesulphonic Acid- $\text{Ni}^{2+}$  system and its corrosion study" Journal of Science, Humanities and management. ISSN 2347-9868, Vol.3 No.2 June 2016 pp 1-16

9. **C. Mary Anbarasi**, "Nurturing Christian Values Among Youth in Christian Colleges" New Frontiers in Education (April-June, 2016) on October 2016. pp.50-54

10. **C. Mary Anbarasi**, “Influence of ICT enabled Teaching and Learning” JACJOSHAM Journal Vol. 4(1), ISSN No. 2347-9868, Dec-2016 pp 146-151

11. K. S. Suruthi and **C. Mary Anbarasi** “Corrosion Inhibition of Aluminium in Acid Medium using Chrysanthemum Flower Extract” Journal of Science, Humanities and management. ISSN 2347-9868, Vol.4 (2) No.2 June 2017 pp 14-26

12.G. Oviya and **C. Mary Anbarasi** “Electrochemical and Surface Analysis Studies on Corrosion Inhibition of Aluminium by an Eco-Friendly Inhibitor in Alkaline Medium” Journal of Science, Humanities and management 5 (2), ISSN: 2347-9868, Vol 5, No 2, June 2018, pp.1-12.

***Seminars/Conferences/Workshops Participated (Last Five Years):***

S. No	Theme of seminar / Workshop / Conference	Date & Place
1	UGC,DRDO & CSIR sponsored National Seminar on Emerging Trends in Chemistry	25 <sup>th</sup> July 2008, C.P.A. College, Bodi.
2	National Seminar on Christian Values for wholesome life	29 <sup>th</sup> August 2008, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
3	CSIR sponsored National Seminar on Recent Trends in Chemistry(RTC-3)	26 <sup>th</sup> & 27 <sup>th</sup> February 2009, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam
4	NAAC sponsored National Seminar on Quality and Relevance in Higher Education- New Challenges	2 <sup>nd</sup> & 3 <sup>rd</sup> March 2009, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
5	UGC Sponsored National Seminar on “Recent Trends in Physics	23 <sup>rd</sup> & 24 <sup>th</sup> March 2009, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
6.	AICTE Sponsored National seminar on Advancements in corrosion control	30 <sup>th</sup> and 31 <sup>st</sup> July 2009, Mepco shlenk Engineering College , Sivakasi
7	NAAC Sponsored National Seminar on Quality Enhancement Strategy- Towards Excellence	31 <sup>st</sup> August and 1 <sup>st</sup> September 2009, Yadava College, Madurai
8	UGC Sponsored National Conference on Recent Trends in Chemistry (RTC-4)	18 <sup>th</sup> & 19 <sup>th</sup> February 2010, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
9	International Conference on Green Chemistry and Sustainable Environment	7 <sup>th</sup> & 8 <sup>th</sup> July 2010, Holy Cross College, , Holy Cross College,Trichy
10	15 <sup>th</sup> National congress on corrosion control	16 <sup>th</sup> -18 <sup>th</sup> September 2010, Accord Metropolitan, Chennai
11	UGC,CSIR & DST sponsored National Seminar on Emerging Trends in Chemistry	23 <sup>rd</sup> & 24 <sup>th</sup> September 2010, C.P.A. College, Bodinayakkanur

12	International Conference on Drug Design & Development	21 <sup>st</sup> January 2011 Nadar Saraswathi College of Arts & Science, Theni
13	National Seminar on Green Chemistry	15 <sup>th</sup> February 2011, Fatima College, Madurai
14	National Seminar on Electrochemical Science and Technology	19 <sup>th</sup> & 20 <sup>th</sup> August 2011, Indian Institute of Science, Bengaluru
15	International Corrosion Congress NACE Gateway India Section	28 <sup>th</sup> September- 1 <sup>st</sup> October 2011, Mumbai, India
16	IAS sponsored Lecture-Workshop on Recent Trends in Chemistry (RTC-5)	15 <sup>th</sup> & 16 <sup>th</sup> December 2011, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
17	National seminar on Recent development in chemistry	25 <sup>th</sup> February 2012, Srinivasan College of Arts and Science, Perambalur.
18	National Seminar on Topical Drifts in Nanotechnology and Bio-Inorganic Chemistry	7 <sup>th</sup> September 2012, N.S. College, Theni.
19	CSIR sponsored National Seminar on Advanced Materials	5 <sup>th</sup> & 6 <sup>th</sup> February 2013, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
20	International Conference on Chemistry in synergy with Materials and Biology	10 <sup>th</sup> and 11 <sup>th</sup> January 2014, Bishop Heber College, Trichy
21	Workshop on E- Content Development for effective teaching and learning	11 <sup>th</sup> to 13 <sup>th</sup> September, 2014, Physics Department & IQAC of Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
22	3 <sup>rd</sup> World Conference on Applied sciences, Engineering and Technology	27 <sup>th</sup> -29 <sup>th</sup> September 2014, Hotel Manag, Kathmandu, Nepal by BRCORP
23	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-6)	8 <sup>th</sup> and 9 <sup>th</sup> January 2015, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.
24	National Seminar on quality in Higher Education: Teaching, Learning & Evaluation	7 <sup>th</sup> and 8 <sup>th</sup> January, 2016. St. Mary's College (Autonomous) Thoothukudi
25	NAAC Sponsored National Conference on Academic Audit and Quality Enhancement in HEIs	22 <sup>nd</sup> March, 2016 IQAC of Arul Anandar College, Karumathur
26	Three day conference on "Catholic Higher Education In India: Rethinking Purpose and Context	Christ University, Bengaluru from 10 <sup>th</sup> -12 <sup>th</sup> May, 2016
27	NAAC sponsored National conference on Quality Assurance and Quality Sustenance in Higher Educational Institutions: challenges and solutions	29 <sup>th</sup> and 30 <sup>th</sup> September 2016 Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.

28	6 <sup>th</sup> International Conference on Materials Processing and Characterisation	Victoria university Melbourne Australia. 5 <sup>th</sup> to 7 <sup>th</sup> Dec.2016
29	UGC sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam. 11 <sup>th</sup> and 12 <sup>th</sup> Jan.2017
30	UGC sponsored National Seminar on Recent Trends in Chemistry (RTC-8)	Jayaraj Annapackiam College for Women, Periyakulam 23.01.18
31	Round Table Discourse on The Present Context of Higher Education Impacting Universities and Colleges: Preparing For High Quality Initiatives	Centre for Education Beyond Curriculum (CEDBEC), CHRIST (Deemed to be University), Bengaluru 15-17 March 2018
32	International Conference on Innovative Applied Energy IAPE'19	March 14-15,2019 Oxford, United Kingdom
33	National Seminar on Recent Trends in Chemistry (RTC-10)	Jayaraj Annapackiam College for Women, Periyakulam 10.12.19

***Conference Presentations (Last Five Years):***

Year	Title of the Paper	Seminar	Place &Date	Level
2008-2009	Synergistic effect of Sodium Molybdate-Zn <sup>2+</sup> system on the corrosion inhibition of Mild steel in sothuparai dam Water	Emerging Trends in chemistry ( ETC-2)	CPA College,Bodinayakanur 24-25,July.2008	National
	Inhibition of corrosion of carbon steel in sothuparai dam Water by Sodium Molybdate-Zn <sup>2+</sup> system	Recent Trends in Physics	J.A.College, Periyakulam 23-24,March 2009	
2010-2011	Sodium Meta-Curcumin system as corrosion inhibitor for mild steel	15 <sup>th</sup> National congress on corrosion control	Accord Metropolitan, Chennai 16-18 Sep, 2010	
	Effect of N-1-Heptane sulphonic acid sodium salt on the corrosion behaviour of mild steel	Emerging Trends in chemistry ( ETC-3)	CPA College,Bodinayakanur 23-24,Sep,2010	
	Surface protection	National	Indian Institute of	

	of carbon steel by Pentane sulphonic acid-Zn <sup>2+</sup> system	symposium on Electrochemical Science and Technology	Science, Bengaluru 19-20, Aug,2011	
	Synergistic inhibition effect of Zinc ion and sodium 1-octane sulphonate on the corrosion of carbon steel in aqueous solution	NACE Gateway India Section	Mumbai, India 28-09-11- 01-10-11	International
	Electrochemical and surface analysis studies on corrosion inhibition of carbon steel by heptane sulphonic acid-Zinc ion system	National conference on Advanced Functional Materials and Applications	Kalasalingam University 16-17 Dec,2011	
2011-2012	The influence of Zinc ion and sodium 1-Hexane sulphonate on the corrosion of carbon steel in aqueous solution	National conference on Emerging Trends in chemistry ( NCETC-2012	Bishop Heber College, Trichy 11-01-12	National
	Electrochemical and surface analysis studies on corrosion inhibition of Carbon steel by Heptane sulphonic acid- Curcumin system	National conference on Trends in Renewable Energy sources, Applications & Technologies TRESAT-2012	SathyaBama University Chennai 1-3, Feb 2012	
	Surface protection of carbon steel by Octanesulphonic acid-Zinc ion system	National symposium on Recent development in chemistry	Srinivasan College of Arts and Science, Perambalur 25-02-12	
	Surface protection of carbon steel by Heptanesulphonic acid –Zinc ion system	Topical Drifts in Nanotechnology and Bio-Inorganic Chemistry	N.S. College, Theni 7.09.12	
	Electrochemical and surface analysis studies on corrosion inhibition of Carbon steel by Octanesulphonic acid- Curcumin system	Recent Trends in Advanced Materials	5 <sup>th</sup> & 6 <sup>th</sup> February 2013, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam.	
2012-2013				

2013-14	Electrochemical and surface analysis studies on corrosion inhibition of Carbon steel by Octanesulphonic acid- betanin system	Chemistry in synergy with Materials and Biology	PG and Research Dept of Chemistry Bishop Heber College, Trichy on 10 <sup>th</sup> and 11 <sup>th</sup> January 2014	International
2014-15	Surface modification of carbon steel by Hexanesulphonic acid- Ni <sup>2+</sup> system and its corrosion study	National Seminar on Emerging Trends in Chemistry (ETC-5)	PG Dept of Chemistry, CPA College, Bodi on 18 <sup>th</sup> and 19 <sup>th</sup> September 2014	National
	Electrochemical and surface analysis studies on corrosion inhibition of Carbon steel by Octanesulphonic acid- Ni <sup>2+</sup> system	3 <sup>rd</sup> World Conference on Applied sciences, Engineering and Technology	Hotel Manag, Kathmandu, Nepal by BRCORP from 27-29 September 2014	International
	Synergistic effect of nickel ions on the corrosion inhibition of carbon steel in aqueous medium	Chemistry and Materials	Anna University , BIT Campus, Dept of Chemistry , Trichy on 14 <sup>th</sup> and 15 <sup>th</sup> November 2014	International
	Surface modification of carbon steel by an aqueous extract of cashew nut peel and its corrosion study	National Seminar on Recent Trends in Chemistry (RTC-6)	PG Dept of Chemistry, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam on 8 <sup>th</sup> and 9 <sup>th</sup> January 2015	National
	Inhibition of corrosion of carbon steel in aqueous medium using papaya leaf extract	National Seminar on Recent Trends in Chemistry (RTC-6)	PG Dept of Chemistry, HKRH College, Uthamapalayam on 12 <sup>th</sup> and 13 <sup>th</sup> March 2015	National
2015-16	The Need of Skill Development in Higher Education	National Seminar on quality in Higher Education: Teaching, Learning & Evaluation	7 <sup>th</sup> and 8 <sup>th</sup> January, 2016. St. Mary's College (Autonomous) Thoothukudi	National
	Integrating Skill Development in Higher Education	NAAC Sponsored National Conference on Academic Audit and Quality Enhancement in HEIs	22 <sup>nd</sup> March, 2016 IQAC of Arul Anandar College, Karumathur	National
	Nurturing Christian Values among Youth in Christian Colleges	Three day conference on "Catholic Higher Education In India: Rethinking Purpose and Context	Christ University, Bengaluru from 10 <sup>th</sup> -12 <sup>th</sup> May, 2016	International
	Influence of ICT	NAAC sponsored	29 <sup>th</sup> and 30 <sup>th</sup> September	National



2016-17	enabled teaching and learning.	National conference on Quality Assurance and Quality Sustenance in Higher Educational Institutions: challenges and solutions	2016 Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam	
	A Green approach to corrosion inhibition of aluminium in acid medium using azwain seed extract	6 <sup>th</sup> International Conference on Materials Processing and Characterisation	Victoria university Melbourne Australia. 5 <sup>th</sup> to 7 <sup>th</sup> Dec.2016	International
	Eco Friendly Corrosion Inhibitor for Carbon Steel in Aqueous Medium Using Ommavalli Leaf Extract	UGC sponsored National Seminar on Recent Trends in Chemistry (RTC-7),	11 <sup>th</sup> and 12 <sup>th</sup> Jan.2017 Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam	National
2017-18	Surface Protection of Aluminium by an Eco Friendly corrosion inhibitor	UGC sponsored National Seminar on Recent Trends in Chemistry ( RTC-8)	23.01.18 Jayaraj Annapackiam College for Women, Periyakulam	National
	Electrochemical and Surface analysis studies on Corrosion Inhibition of Aluminium by a green inhibitor in an alkaline medium	National Conference on Emerging Trends in Materials-2018 (NCETM-2018),	06.03.18 Mary Matha College of Arts and Science, Periyakulam	National
	The Role of Teachers in creating Excellence	Round Table Discourse on The Present Context of Higher Education Impacting Universities and Colleges: Preparing For High Quality Initiatives	15-17 March 2018. Centre for Education Beyond Curriculum (CEDBEC), CHRIST ( Deemed to be University), Bengaluru	National
2018-19	Electrochemical and Surface Analysis studies on corrosion Inhibition of Aluminium by an Eco- friendly Inhibitor in Alkaline Medium	International Conference on Innovative Applied Energy IAPE'19	March 14-15,2019 Oxford, United Kingdom	International
2019-20	Eco-Friendly Corrosion Inhibitor for Carbon Steel in Aqueous Medium	National Seminar on Recent Trends in Chemistry ( RTC-10)	10.12.19 Jayaraj Annapackiam College for Women, Periyakulam	National

**Research Experience:** Funded research projects undertaken – 1

Minor Research Project(Completed) : Period 1-2-2007 to 28-2-2009  
Corrosion inhibition by Oxyanions

**Research Guidance:**

M.Phil Projects:07

PG Projects : 06

UG Project:02

**Books Published :** *Allied Chemistry I* ISBN No: 978-81-2344-024-9, 2020-2021.

**Awards:** *Won the best paper award for the paper titled “Electro Chemical and Surface Analysis studies on Corrosion Inhibition of Carbon Steel by Octane Sulphonic Acid- Ni<sup>2+</sup> system”* in the 3<sup>rd</sup> World Conference on Applied Sciences Engineering and Technology (WCSCT- 2014) at Kathmandu, Nepal

**Countries visited :** Nepal, Australia, France and United Kingdom

**Contact Details :**

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**Near J.A. College Gate, Thasilthar Nagar, Thamaraikulam**

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