



# INTERNATIONAL JOURNAL OF NANO CORROSION SCIENCE AND

## ENGINEERING.

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### CURRICULUM VITAE



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**LANGUAGES KNOWN** : Tamil(R/W/S), English(R/W/S),

Hindi(R/W/S), Telugu(R/W/S)

**ADDRESS FOR COMMUNICATION** : Plot No. 41, Shanthi Nilayam,

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### WORKING EXPERIENCE

- Working as Assistant Professor , Department of Chemistry , SRM University, Since July-2010
- Worked as Assistant Professor, Department of chemistry, Aarupadai Veedu Institute of Technology, Chennai (Oct 2008 - June 2010)
- Worked as chemistry PG lecturer in GTN Arts college, Dindigul, (TN) (2006-2008)
- Worked as a chemistry lecturer in Sri Sarada Niketan College of Science for Women, Karur (Tamil Nadu) (2003-2004)

## **RESEARCH EXPERIENCE**

- Project work done in physico –chemical studies on micelles and mixed micellar systems-TRITON X-100 and TWEEN -60 at CLRI,Chennai, for M.Sc degree course.
- Project fellow for a UGC sponsored major project titled “Environmentally Friendly Inhibitor for Carbon Steel in Aqueous Media” in GTN Arts College, Dindigul, (TN) (2005-2006).

## **ADDITIONAL QUALIFICATION**

- Passed Upto Praveshika Exam in Dakshina Bharat Hindi Prachar Sabha.

## **AWARDS**

- **Rank holder (First), M.Sc degree (1999), Bharathiar University**

## **Ph.D WORK DETAILS:**

Research field: Corrosion science

**Title:** Corrosion inhibitors for carbon steel in rain water collected from rooftop

## **EDUCATIONAL QUALIFICATION:**

**M.Sc Chemistry:** PSGR. Krishnammal college (coimbatore) ,  
Barathiyar university

**B.Ed Physical science:** Lakshmi college of Education  
(Gandhigram), Madurai Kamaraj University.

**Ph.D Chemistry:** Madurai Kamaraj University, Madurai.

## **SEMINAR /WORKSHOP/TRAINING:**

**Coordinator:** “A short term training course on corrosion and its control” organized by

Department of Chemistry, SRM University,  
Chennai. Jan 30-31, 2014.

**Participated in the.....**

1. “Industrial Cooling water system” at Anna University in association with IGCAR. 18<sup>th</sup> -20<sup>th</sup> , Dec,2013.
2. National seminar on “Recent Trends in Advanced Materials” organized by Department of Physics and Chemistry, Misrimal Navajee Munoth Jain Engineering College, Chennai. 19<sup>th</sup> July, 2013.
3. “National conference on Chemistry Solutions” Department of chemistry, SRM University, Chennai. 21<sup>st</sup> & 22<sup>nd</sup> February , 2013
4. Workshop on “Outcome Based Accreditation Process and Parameters” at SRM University, Chennai. 8<sup>th</sup> November,2012
5. “Mission 10X” workshop conducted at SRM University, Chennai.25-29 July, 2011

6. National workshop on “Advanced Analytical Techniques for Material Characterisation” organized by department of chemistry, SRM University, Chennai. 19<sup>th</sup> & 20<sup>th</sup> July, 2011
7. 98<sup>th</sup> Indian Science Congress held at SRM University, Chennai. 3-7 January, 2011
8. “Science Academies” Lecture workshop on spectroscopy organized by department of chemistry, NIT – Trichy. 3 & 4 Dec 2010
9. National seminar on “Advancements in Corrosion control” organized by the department of chemistry, Mepco Schlenk Engineering College, Sivakasi. 30<sup>th</sup> & 31<sup>st</sup> July, 2009
10. Second National workshop on “Engineering Materials and its Applications” organized by Aarupadai Veedu Institute of Technology, Chennai. 2<sup>nd</sup> & 3<sup>rd</sup> December 2009.
11. National workshop on “Engineering Materials and its Applications” organized by Aarupadai Veedu Institute of Technology, Chennai. 2<sup>nd</sup> & 3<sup>rd</sup> December 2008.

12. National workshop on “Bibliometric and Research” for college teachers Under TEQIP Networking held at NIT-Trichy. 26<sup>th</sup> October,2007
13. National Seminar on “Recent Advances in Textile and Electrochemical Sciences” held at Alagappa University, Karaikudi, organized by Dept of Industrial Chemistry. June 1& 2 -2007.
14. National Workshop on “ Emerging Trends in Electrochemical Science and Technology” organized by CECRI, Karaikudi & Raja Engineering college and Technology, Madurai.17<sup>th</sup> &18<sup>th</sup> March, 2006.
15. National Workshop on “Advanced Techniques for Corrosion Studies” from 5-7 Jan, 2006 held at Alagappa University, Karaikudi.
16. National seminar on recent trends in chemistry held at P.S.G.R. Krishnammal College for women in Coimbatore on Dec 16<sup>th</sup> & 17<sup>th</sup>, 2005.

## **PAPERS PRESENTED**

1. Presented a paper entitled “Phosphonic acids as corrosion inhibitor for carbon steel in rain water collected from rooftop-A comparative study” **J.Arockia Selvi**, S.Rajendran and T.pushpa malini, in the International Corrosion Prevention Symposium for Research Scholars (CORSYM-2013) organized by NACE Gateway India Section at Chennai. 28<sup>th</sup> February – 2<sup>nd</sup> March 2013.
2. Presented a paper entitled “Corrosion inhibition by an aqueous extract of Betel Nut for carbon steel in chloride environment” **J. Arockia Selvi**, Susai Rajendran\* and S. Agnesia Kanimozhi in National symposium on frontier areas in chemistry at The American college, Madurai on Jan 10-11,2008.
3. Presented a paper entitled “ Corrosion inhibition by Sodium potassium ttrate – Zn<sup>2+</sup> system for carbon steel in rain water collected from roof top” **J. Arockia Selvi**, S. Rajendran\* and A. John Amalraj in National conference on corrosion and its control at Holly cross college, Trichirapalli on 30 Nov & 1 Dec 2007

4. Presented a paper entitled “ Corrosion studies on electroplated carbon steel by nickel and chromium by electro deposition- A case study” , **J.Arockia Selvi**, Susai Rajendran\* and S.Shanmuga Priya in International Symposium for Research Scholars (ISRS-2006) on Metallurgy, Materials Science & Engineering at IIT madras on Dec 18-20,2006.

## **PAPERS PUBLISHED**

1. **J.Arockia Selvi**, S. Rajendran and T. Pushpa Malini,  
“Phosphonic acids as corrosion inhibitor for carbon steel in rainwater collected from rooftop-A comparative study”  
Indian Journal of Applied Research, Vol 3, Issue-7, July-2014.
2. P.Kamaraj, M.Arthanareeswari, **J.Arockia Selvi**, R.Vennila,  
P.Ellamathi, “Podophyllum Hexandrum Fruit Extract as corrosion Inhibitor of Mild Steel in 1N HCl, Indian Journal of Applied Research, Vol 4, Issue 6, June 2014.



3. VennilaRaj, P. Kamaraj, T. Raju, M. Arthanareeswari, S. Devikala and **J. Arockiaselvi**, "An Electrochemical Study on Green Synthesized Ag Doped Bi<sub>2</sub>O<sub>3</sub> Nanoparticles Coated on Copper Alloys in Sea Water Environment", International Journal of Advanced Scientific and Technical Research, Vol 3, Issue 4, May 2014.
4. J.Jeyasundari, Y.Brightson Arul Jacob, **J.Arockia Selvi**, "Influence of the TSC (Trisodium Citrate) on the corrosion inhibition of mild steel in MGD-Zn<sup>2+</sup>" *Research & Reviews in ElectroChemistry*, 4(3), 2013
5. **J.Arockia Selvi**, Susai Rajendran, V.Ganga Sri, A.John Amalraj, B.Narayanasamy, "Corrosion Inhibition by Beet Root Extract," *Portugaliae Electrochimica Acta*, 27(1), 2009.(Impact factor- ISSN: 1647-1571)
6. **J.Arockia Selvi**, Susai Rajendran, J. Jeyasundari, "Analysis of nano film by atomic force microscopy," *Zastita Materijala*, 91(50), 2009.(Impact factor-0.261)

7. J. Sathiyabama, Susai Rajendran\*, **J. Arockia Selvi** and J. Jeyasundari, "Eosin as Corrosion Inhibitor for Carbon Steel in Well Water", *The Open Corrosion Journal*, 77-82(2)2009
8. K.Anuradha, R.Vimala, B.Narayanasamy, **J.Arockia Selvi** and Susai Rajendran\*, "Corrosion inhibition of carbon steel in low chloride media by an aqueous extract of Hibiscus rosa-sinensis Linn" *Chem. Eng. Comm.*, 352(195), 2008.(Impact factor-0.946)
9. **J.Arockia Selvi**, Susai Rajendran\* and A.John .Amalraj, "Corrosion inhibition by Sodium potassium tartrate-Zn<sup>2+</sup> system for carbon steel in rainwater collected from rooftop," *Indian journal of chemical technology*, 382(14), 2007.(Impact factor-0.606)
10. **J.Arockia Selvi**, A.John .Amalraj and Susai Rajendran\*, "Corrosion inhibition by ATMP (Amino tri methylene phosphonic acid)-Zn<sup>2+</sup> system for carbon steel in rainwater collected from rooftop," *Bulletin of Electrochemistry*, 123(22), 2006.(Impact factor-0.230)

11. J.Sathyabama , Susai Rajendran, **J.Arockia Selvi**,  
“Eriochrome black-T as corrosion inhibitor for carbon steel  
in well water” *Bulletin of Electrochemistry*, 363(22),  
2006.(Impact factor-0.230)
12. J.Dhanalakshmi, **J.Arockia Selvi**, A.John Amalraj,  
S.Rajendran\* and N.Palaniswamy, “Corrosion inhibition by  
an Oxyanion-Zn<sup>2+</sup> system,” *Transaction of the SAEST*, 57(41),  
2006. (Impact factor-ISSN: 0036-0678)
13. Susai Rajendran, M.Manivannan, J.Wilson Sahayaraj,  
**J.Arockia Selvi**, J.Sathyabama, A.J.Amalraj and  
N.Palaniswamy “Corrosion behaviour of Aluminium in  
Methyl orange solution at pH 11,” *Transaction of the SAEST*,  
63(41), 2006. (Impact factor-ISSN: 0036-0678)
14. B.Narayanasamy, A.John .Amalraj, **J.Arockia Selvi**, Susai  
Rajendran\* , “Synergistic effect of Phosphate and Zn<sup>2+</sup> on the  
corrosion inhibition of carbon steel,” *Bulletin of  
Electrochemistry*, 489(21), 2005.(Impact factor-0.230)

15. S.Rajendran, V.Ganga Sri, **J.Arockia Selvi**, A.John Amalraj,  
“Corrosion inhibition by plant extracts an overview,” *Bulletin  
of Electrochemistry*, 367(21),2005.(Impact factor-0.230)

### **REFEREE IN**

International Journal of Advanced Chemical Science and  
Applications.(IJACSA) ISSN (Print): 2347-7601, ISSN  
(Online): 2347-761X]

**OTHER ACTIVITIES:** Framed syllabus for M.Sc Chemistry  
Physical chemistry Specialization,

Department of chemistry, SRM University

### **MEMEBERSHIP**

Life member in ISTE

Annual member in SAEST (2014-2015)