

THIRUVALLUVAR GOVERNMENT ARTS COLLEGE, RASIPURAM

DEPARTMENT OF CHEMISTRY

STAFF PROFILE



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| 1. Name | : Dr. M.Sivaraju |
| 2. Designation | : Assistant Professor (Selection Grade) |
| 3. Education Qualification | : M.Sc.,M.Phil.,Ph.D |
| 4. Teaching Experience | : 11 Years 3 Month |
| 5. Research Experience | : 5 Years |
| 6. Area of Research | : Electrochemistry, Corrosion Science |
| 7. University Guideship
Approval No | : Periyar University, Salem-11
(Ref. No: PU/R/RD3/06147/2015) |
| 8. Fellowship Awarded | : Nil |
| 9. Minor/Major Research Project | : Nil |
| 10. Research Paper Published | : International: 17; National: 03 |
| 11. Seminar/ Conference/ Workshops | : Organized: 01 ; Attended: 07 |
| 12. Journals Review | : International: Nil ; National: Nil |
| 13. Books Published | : 02 |

BIO - DATA

Name : **Dr. M.Sivaraju**
 Designation : Assistant Professor (Selection Grade)
 Father's Name : K.Mani
 Date of Birth : 01.06.1979
 Nationality : Indian
 Religion : Hindu
 Community : MBC
 Permanent Address : 8/198 A- Veeranoor Kattuvalavu
 Gonour Post, Mettur Dam -3
 Salem District, Tamilnadu
 PIN:636404
 Phone No : Off : 04287 – 231802.
 E-Mail ID : sivarajuviji06@gmail.com
 Languages Known to Read / Write : Tamil/English

EDUCATIONAL QUALIFICATION:

Degree	University	Month & Year of Passing	Class/ Grade
Ph.D	Anna University of Technology, Coimbatore	February 2011	By thesis
M.Phil	Bharathidasan University	March 2005	First Class
PG	Perriyar University	November 2001	First Class
UG	University of Madras	April 1999	First Class

Teaching Experience**: 11 Years 3 Month**

S. No	From DD/ MM / YY	To DD/ MM / YY	Name of the Institution	Total Years
1	11/08/2016	Till date	Thiruvalluvar Government Arts College, Rasipuram	10 Year 2 Month
2	01/11/2015	10/08/2016	Arignar Anna Government Arts College, Namakkal-2	9 Month 10 days
3	27/7/2015	31/10/2015	Government Arts College, Udumalpet	3 Month 3 days
4	01/10/2011	25/07/2015	Muthayammal College of Engineering, Rasipuram	3 year 9 Month 25 days
5	18/08/2006	30/09/2011	Muthayammal Engineering College, Rasipuram	5 Year 1 Month 12 days
6	01/06/2005	17/08/2006	Selvamm Arts and Science College, Namakkal	1 Year 2 Month 16 Days

Research Experience : 16 Years

Topic of Research : Inhibition Effect of Herbal Extracts on Mild Steel Corrosion in Acid Medium

Research Guidance : M.Phil - Awarded : 02
 Ph.D - Awarded : 04
 Ph.D - Ongoing : 01

Courses Attended

S. No	Name of the Course	From DD/MM/YY	To DD/MM/YY	Subject/ Title	Name of the University
1	Orientation course	16.12.2016	12.01.2017	-	UGC- HRDC Bharathiyar University, Coimbatore
2	Refresher Course	04.07.2018	24.07.2018	Chemistry	UGC- HRDC Bharathiyar University, Coimbatore
3	Refresher Course	04.07.2018	24.07.2018	Chemistry	UGC- HRDC Bharathiyar University, Coimbatore
4	Refresher Course	15.07.2021	29.07.2021	21 st Century Environmental Issues , Challenges & Solutions	TLC-Ramanujan college, University of Delhi (PMMMNMSTT)
5	Refresher Course	14-09-2022	27-09-2022	Chemistry	UGC-HRDC University of Madras, Chennai
6	Refresher Course	16/06/2025	28/06/2025	Chemistry	UGC- Gujarat University, Ahmedabad

Member in Academic/ Editorial Board/ Reviewer in Journals : 01

Life Member in Indian Society For Technical Education (LM: 70867/2010)

List of Publication:

<https://scholar.google.com/citations?user=ChiSoLsAAAAJ&hl=en>

1. N Valarmathi, **M Sivaraju**, S Divya, RPS Jayakumar “Significant Overviews and Implications of Nanotechnonics Nanotechtonics: Design, Synthesis, and Applications, 1-14 (2026) DOI:10.1007/978-981-95-4216-1_1
2. V. Mahalingam , **M. Sivaraju** , G. Suresh Kumar, K. Lalithambigai , S. Ranjith Priyan , Mohammed Mujahid Alam “Synergistic effect of silica/polypyrrole nanocomposites synthesized by hydrothermal method using rice husk as a silica source for corrosion protection” (2024) Materials Chemistry and Physics 313,128752 <https://doi.org/10.1016/j.matchemphys.2023.128752>
3. V. Mahalingam, **M. Sivaraju** , G. Suresh Kumar, K. Lalithambigai , Nguyen Van Minh, M. Aslam Manthrammel , Mohd. Shkir “ Synergistic effect of α -alumina integrated silica ceramic nanocomposites prepared using waste beverage cans and rice husk for corrosion protection application” Journal of Alloys and Compounds 990 (2024) 174381 <https://doi.org/10.1016/j.jallcom.2024.174381>
4. C. Usha and **M. Sivaraju** “Enhancement of anti-corrosive performances of cresol based p-tolyl benzoxazine resin by copolymerizing with polyurethane” Rasayan J. Chem., 17(2), 456-465(2024) <http://doi.org/10.31788/RJC.2024.1728787>
5. K. Jayanthi, **M. Sivaraju** and P. Shanmugasundaram, “Enhancing Corrosion Resistance Property of Mild Steel by Benzoxazine Synthesized from Vanillin and Copolymerize with Urethane” Asian Journal of Chemistry; Vol. 35, No. 4 (2023), 851-860, <https://doi.org/10.14233/ajchem.2023.27290>
6. K. Jayanthi and **M. Sivaraju**, “Synthesis And Characterization Of Benzoxazine; Urethane Copolymer From Vanillin With Adamantane Side Chain And Its Anticorrosive Coating On Mild Steel” Rasayan Journal of Chemistry, Vol. 16, No. 2, 892-904, April – June, 2023. <http://doi.org/10.31788/RJC.2023.1628362>
7. K. Jayanthi and **M. Sivaraju**, “Study of corrosion resistant property of Benzoxazine synthesised from Eugenol with n-butylamine and copolymerised with polyurethane on mild steel” Oriental Journal of Chemistry, Vol 39, 2023.
8. K. Jayanthi and **M. Sivaraju**, “Synthesis and characterization of eugenol-based poly (benzoxazine –PU) with glycine ethyl ester core copolymer coating for corrosion protection on mild steel” European Chemical bulletin, Volume 12, Issue 12, 2023.
9. N. Valarmathi, **M. Sivaraju**, P. Shanmugasundaram, “Enhanced Anticorrosive “ Properties of Silane Functionalized Polybenzoxazine @CeO₂ Nanocomposites with Polyurethane Coatings on Mild Steel”Asian Journal Of Chemistry, (2023),35(8),1869-1878. <https://doi.org/10.14233/ajchem.2023.28042>

10. Valarmathi Nataraj, **Sivaraju Mani**, Mohanambal Palaniyappan, "Elevated Polyurethane Coated Polybenzoxazine Intercalated ZrO₂ Nanocomposites: A New Frontier for Protective Coatings in Various Disciplines" *Oriental Journal of Chemistry*, (2023), 39(4), 933-941. <https://dx.doi.org/10.13005/ojc/390415>
11. N.Valarmathi, and **M.Sivaraju** "A Determinant Of Zirconium Doped Copper Oxide Nanoparticles As An Inhibitor In Silane Functionalized Polybenzoxazine With Polyurethane Coatings Ability To Actively Prevent Corrosion On Mild Steel" *European Chemical Bulletin* (2023), 12(10), 13070-13096. <https://doi.org/10.48047/ecb/2023.12.10.9162023.25/08/2023>
12. V. Mahalingam, **M. Sivaraju** P. Shanmugasundaram "Synthesis of Silica/Hydroxyapatite Nanocomposites Using Rice Husk and Fish Scale for Corrosion Protection Application" *Silicon* (2023) <https://doi.org/10.1007/s12633-023-02469-5> (Springer)
13. C. Usha¹ , **M. Sivaraju** , P. Shanmugasundaram "Effect of concentration of polyurethane on the anti-corrosive property of cresol based benzoxazine - electrochemical and quantum chemical approach" *Eur. Chem. Bull.* 2023 12 (Special Issue 13),1382-1393, DOI: 10.53555/ecb/2023.12.Si13.232
14. Usha , **M. Sivaraju** and P. Shanmugasundaram "Synthesis and Characterization of Cresol based Benzoxazine-Polyurethane Copolymer for Anti-corrosion Performance of Mild Steel" *Asian Journal Of Chemistry*, (2023),35(8),1869-1878. <https://doi.org/10.14233/ajchem.2023.28042>
15. V. Mahalingam, **M. Sivaraju** "Microwave-Assisted Sol-Gel Synthesis of Silica Nanoparticles Using Rice Husk as a Precursor for Corrosion Protection Application" (Oct-2022) *Silicon*, <https://doi.org/10.1007/s12633-022-02153-0> (Springer)
16. P. Shanmugasundaram, R. Sujatha , M. Vijey Aanandhi , V. Manivannan and **M. Sivaraju** "Synthesis, Characterisation and Antimicrobial Evaluations of Acetyloxyphenyl-1,2,3-triazole Linked Hexahydro Acridinediones" *Journal of Pharmaceutical Research International* 34(10B): 1-10, Feb-2022;
17. P. Shanmugasundaram, R. Sujatha , M. Vijey Aanandhi, **M . Sivaraju**, V. Manivannan "Synthesis, Characterisation and Antimicrobial Studies of TriazoloTetramethylacridinedione Derivatives" *High Technology Letters*, Volume 27, Issue 4, 2021
18. M. Radha Ramanan, R. Radhakrishnan, T. Dhanabal*, **M. Sivaraju**, R. Ashokkumar (2015) "Growth, spectral, optical and dielectric characterization of an organic nonlinear optical material: 4-hydroxytetra methyl piperazinumpicrate" *Optik*, Volume: 126, PP. 5600–5604.

19. G.Maheswari, P.Madhu and **M.Sivaraju** (2015) "Inhibitive Effect of Hydrofluoric Acid Doped Poly Aniline (HF-PANI) on Corrosion of Iron in 1N Phosphoric Acid Solution" American Journal of Engineering Research Volume-4, Issue-3, pp-151-160.
20. Jayanthi.K, **Sivaraju M.** and Kannan.K. (2012), "Inhibiting Properties of Morpholine as Corrosion Inhibitor for Mild Steel in 2N Sulphuric Acid and Phosphoric Acid Medium" E-journal of Chemistry, Vol.9, No.4, pp.2213-2225.
21. **Sivaraju M.** and Kannan.K. (2010), "Eco-Friendly inhibitor for mild steel corrosion in 1N phosphoric acid" Asian journal of Chemistry, Vol.22, No.1, pp.233-244.
22. **Sivaraju M.** and Kannan.K. (2010), "Inhibitive properties of plant extract (*Acalypha indica* L.)", International Journal of Chem. Tech Research, Vol.02, No.2, pp.1243-1253.
23. **Sivaraju M.** and Kannan.K. (2009), "Tribulus terrestris.L water extract as eco-friendly inhibitor on mild steel corrosion in 1N phosphoric acid", Journal of Metallurgy and Material Science, Vol.51, No.1, pp.29-42.(CSIR)
24. **Sivaraju M.** and Kannan.K. (2009), "Corrosion of mild steel in 1N Phosphoric acid with plant extract (*Acalypha Indica* L)", Material Science Research India, Vol.06, No.1, pp.125-136.
25. **Sivaraju M.** and Kannan.K. (2009), "Inhibiting Properties of Imidazole and 2-Methylimidazole as Corrosion Inhibitor for Mild Steel in 1N Hydrochloric acid". Oriental Journal of Chemistry Vol.25, No.1, pp.67-76.
26. **Sivaraju M.** and Kannan.K. (2008), "Inhibitive action of Piper nigrum Extract as corrosion inhibitor for mild steel in 1N Sulphuric acid", Asian journal of Chemistry, Vol.48, No.4, pp.6103-6113.
27. **Sivaraju M.** and Kannan.K. (2006), "Imidazole as a Corrosion Inhibitor for Mild Steel in Acid Medium", Material Science Research India, Vol.31, No.2, pp.129-134.
28. Elavarasan.S, **Sivaraju M.** and Kannan.K. (2006), "Inhibiting Properties of Imidazole and 2-Methylimidazole as Corrosion Inhibitor for Mild Steel in 1N Sulphuric acid", Journal of Metallurgy and Materials Science, Vol.48, No.4, pp.221-232.