

**Name:** Dr. J. Saranya

**Designation:** Assistant Professor

**Department:** Chemistry.

**Qualification:** M.Sc., M.Phil., Ph.D.

**Experience:** Teaching: 11 Years    Research: 16 Years

**Area of Specialization(s):** Corrosion science and Coordination chemistry

**Email (Official ID):** saranya.j@drngpasc.ac.in



### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Chemistry	PSGR Krishnammal College for Women, Coimbatore	2016
M. Phil.	Chemistry	PSGR Krishnammal College for Women, Coimbatore	2008
M.Sc.	Applied Chemistry	Coimbatore Institute of Technology, Coimbatore	2007
B.Sc.	Applied Sciences	Coimbatore Institute of Technology, Coimbatore	2005

### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certificate	Drinking water treatment	edX	2021
Diploma	Diploma in Nutrition	Udemy	2021
Certificate	Introduction to Molecular Spectroscopy	Coursera	2020
Certificate	Digital Transformation in Teaching-Learning process	SWAYAM	2020

## Consultancy

Title of Consultancy	Client	Amount	Status
Corrosion testing for plated parts and components	Mahavishnu Laser Industry	1,00,000	Completed

## Patents

Title	Status	Year
IoT-based Intelligent Solar Water heater	Published	2020
A charged device for cleaning dust	Published	2020
Antimicrobial Nanoparticles to prevent food spoilage in a Refrigeration system	Published	2021

## Research Publications

### International:

1. Saranya J, Vagdevi K, Jyothirmai B, Warad I, Zarrouk A, Application of quercetin as a green inhibitor to prevent mild steel corrosion in the petroleum industry: Experimental and modelling techniques, Chemical Data Collections, 2024, 50, 10112 (Indexed in SCOPUS)
2. Balaji V, Raja V.K.B, Saranya J. Corrosion Inhibition of Laser Welded Mg AZ31B-H24 Alloy in NaCl Medium Using Pectin as an Eco-Friendly Inhibitor, International Journal of Integrated Engineering. 2024, 16(2), pp. 76–81 (Indexed in SCIE)
3. Lavanya K, Saranya J, B Anna Tanuja Safala, R Srinivas, M Shravya Rao, Sahoo Bijaya Ketan, Biophysical insights on the interaction of anticoagulant drug dicoumarol with calf thymus-DNA: deciphering the binding mode and binding force with thermodynamics, Journal of Biomolecular Structure and Dynamics, 2024, 42(3), pp. 1392–1403 (Indexed in SCI)

4. Suresh G, Laxmikanth M, Yuvaram V, Saranya J, Nookaraju B.Ch, Subbiah R, Assessment of Wear Properties on Treated AISI 420 Martensitic Stainless Steel by Annealing, AIP Conference Proceedings, 2024, 3007(1), 100019 (Indexed in SCOPUS)
5. Jrajri K, El Faydy M, Benhiba F, Bellaouchou A, Saranya J, Zarrouk A. Some diazepinone analogs as corrosion inhibitors for carbon steel in a hydrochloric acid medium: An integrated theoretical and practical study, Materials Today Communications, 2023, 36, 106673 (Indexed in SCI)
6. Nitin Muttill, Saranya Jagadeesan, Arnab Chanda, Mikel Duke and Swadesh Kumar Singh, Characterisation of activated carbon derived from carbon black produced by the pyrolysis of waste tyres, Advances in Materials and Processing Technologies, 2023, doi: 10.1080/2374068X.2023.2192327 (Indexed in ESCI & SCOPUS)
7. Deshini, Aravind, Sathish S, Krishnaraj S, Kumar, Anshuman, Saranya J, Srinivas Viswanth V, Subbiah, Ram, Wear behavior analysis on treated AISI 421 stainless steel under dry sliding conditions, Materials Today: Proceedings, 2023, doi: 10.1016/j.matpr.2023.01.119 (Indexed in SCOPUS)
8. Nitin Muttill, Saranya Jagadeesan, Arnab Chanda, Mikel Duke and Swadesh Kumar Singh, Production, Types, and Applications of Activated Carbon Derived from Waste Tyres: An Overview. Applied Sciences, 13 (2023) 257 (Indexed in SCIE)
9. Sathish S, Venkatesh J, Johnson Pradeep, Annar Shaik, Saranya J, Sai Chandra J, Subbiah Ramaswamy, Tharmalingam S, Strain hardening behaviour of friction stir welded magnesium alloy, Materials Today: Proceedings, 74 (2023) Pages 34 – 39 (Indexed in SCOPUS)
10. J. Saranya, N. Anusuya, F. Benhiba, I. Warad, and A. Zarrouk, A Cyanopyran Derivative for Preventing Corrosion of Pipeline Material Used in The Oil and Gas Industry, Analytical and Bioanalytical Electrochemistry, 14 (9) (2022) 818-836 (ESCI & SCOPUS Indexed)
11. N Anusuya, J Saranya, F Benhiba, I Warad, A Zarrouk, S Chitra, Isoxazoline Derivatives as Inhibitors for Mild Steel Corrosion in 1M H<sub>2</sub>SO<sub>4</sub>: Computational and Experimental

Investigations, *Journal of Materials Engineering and Performance*, (2022) 1-16 (Indexed in SCIE)

12. L Kandikonda, Saranya Jagadeesan, R Subbiah, A Zarrouk, Recent reviews on bio-waste materials for corrosion protection of metals, *Corrosion Reviews*, 40 (4) (2022) 335-342 (Indexed in SCI)
13. Animesh Bain, Keerthi Reddy, Saranya Jagadeesan, A. Anitha Lakshmi, N Sateesh, Swadesh Kumar Singh, Ram Subbiah, Wear and microstructure analysis on AISI420 stainless steel by annealing & tempering process under dry sliding conditions, *Advances in Materials and Processing Technologies*, 8(sup2) (2022) 445–455 (Indexed in ESCI & SCOPUS)
14. Kalpana K, Syed R, Saranya J, Rafi M, Kiran B.R, Synthesis and Theoretical Study of Novel Imidazo[4,5-b]pyrazine-Conjugated Benzamides as Potential Anticancer Agents, *Russian Journal of Organic Chemistry*, 57(9) (2021) 1487–1494 (Indexed in SCIE)
15. D Mahalakshmi, J Saranya, F Benhiba, I Warad, A Zarrouk, S Chitra, Aminothiazolyl coumarin derivatives as effectual inhibitors to alleviate corrosion on mild steel in 0.5 M H<sub>2</sub>SO<sub>4</sub>, *Journal of Applied Electrochemistry*, 51 (2021) 1323 – 1344 (Indexed in SCI)
16. J Saranya, K Lavanya, M Haritha Kiranmai, Subbiah Ram, Zarrouk Abdelkader, Chitra Subramanian, Quinoxaline derivative as anti-corrosion additives for mild steel, *Corrosion Reviews*, 39(2) (2021) 79-92 (Indexed in SCI)
17. Mallampati Mahesh, Somasundaram K, Saranya J, Harsha Vardhan C, Kumar V. Rakesh, Subbiah Ram, Analysis of responses on zirconium carbide based titanium using laser beam machining process, *Materials Today: Proceedings*, 2021 doi: 10.1016/j.matpr.2020.12.967 (Indexed in SCOPUS)
18. J Saranya, F Benhiba, N Anusuya, R Subbiah, A Zarrouk, S Chitra, Experimental and computational approaches on the pyran derivatives for acid corrosion, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 603 (2020) 125231. (Indexed in SCI)

19. Jagadeesan Saranya, Suyambulingam Jone Kirubavathy, Subramanian Chitra, Abdelkader Zarrouk, Kulkarni Kalpana, Kandikonda Lavanya, Bhamidipati Ravikiran, Tetradentate Schiff Base Complexes of Transition Metals for Antimicrobial Activity, *Arabian Journal for Science and Engineering*, 45 (6) (2020) 4683-4695 (Indexed in SCI)
20. J. Saranya, F. Benhiba, N. Anusuya, A. Zarrouk, S. Chitra, Thiazolo thiadiazole derivatives as anti- corrosion additives for acid corrosion, *Chemical Data Collections* 26 (2020) 100358. (Indexed in SCOPUS)
21. A. Arun, K.Ramya Sree, Ram Subbiah, J.Saranya, N.Sateesh, Wear on Thermal & Plasma Spray Coated Al-2014 Alloy under Dry Sliding Conditions, *International Journal of Engineering and Advanced Technology (IJEAT)*, 9(1) (2019) 2074-2077 (Indexed in SCOPUS)
22. K.Lavanya, J.Saranya, S.Chitra, "Recent Reviews on Quinoline derivative as corrosion inhibitors"- *Corrosion Reviews*. 36 (4) (2018) 365-371 (Indexed in SCIE)
23. Nirmala Devi Gowraraju, Saranya Jagadeesan, Subramanian Chitra "Synthesis and Characterization of Dextrin based polymer electrolytes for potential applications in energy storage devices"- *Ionics*. 23 (12) (2017) 3377-3388 (Indexed in SCI)
24. Nirmala Devi Gowraraju, Saranya Jagadeesan, Subramanian Chitra, Polyamidoaminoepichlorohydrin resin a novel synthetic anti-corrosive water-soluble polymer for mild steel, *Progress in Organic Coatings*, 109 (2017) 117-125. (Indexed in SCI)
25. S. Jone Kirubavathy, J. Saranya, A. Bhuvanesh, R. Karvembu, R. Velmurugan, S. Chitra Synthesis, Characterisation and biological evaluation of Ru(III) mercapto-pyrimidine Schiff base complexes, *Applied Organometallic Chemistry*, 31 (11) (2017) e3760 (Indexed in SCI)
26. J. Saranya, P. Sounthari, K. Parameswari, S. Chitra, Synergistic effect of halides and surfactants on the corrosion inhibition of thiazolo thiadiazole derivative for mild steel in acid medium, *Moroccan Journal of Chemistry*, 5 (1), (2017) 164-176. (Indexed in ESCI & SCOPUS)

27. Nirmala Devi Gowraraju, Saranya Jagadeesan, Lukman O. Olasunkanmi, Eno E. Ebenso, Chitra Subramanian, Adsorption characteristics of Iota-carrageenan and Inulin biopolymers as potential corrosion inhibitors at mild steel/sulphuric acid interface, *Journal of Molecular Liquids*, 232 (2017)9-19 (Indexed in SCI)
28. J. Saranya, P. Sounthari, K. Parameswari, S. Chitra, Comparison of the inhibition property of Quinoxaline derivative on mild steel in 1.5M H<sub>2</sub>SO<sub>4</sub>, 3M HCl and 1M H<sub>3</sub>PO<sub>4</sub>, *Journal of Materials and Environmental Science* 8(1) (2017) 370-377 (Indexed in SCOPUS)
29. Nagarajan Anusuya, Jagadeesan Saranya, Palanisamy Sounthari, Abdelkader Zarrouk, Subramanian Chitra, Corrosion inhibition and adsorption behaviour of some bis-pyrimidine derivatives on mild steel in acidic medium, *Journal of Molecular Liquids*, 225 (2017) 406–417 (Indexed in SCI)
30. P. Sounthari, A. Kiruthika, J. Saranya, K. Parameswari, S. Chitra, Corrosion inhibition property of polyester–groundnut shell biodegradable composite, *Ecotoxicology and environmental safety*, 134 (2016) 319–326 (Indexed in SCI)
31. Jagadeesan Saranya, Murugaih Sowmiya, Palanisamy Sounthari, Kittusamy Senthil Kumar, Kandhaswamy Parameswari, Subramanian Chitra, N-heterocycles as corrosion inhibitors formild steel in acid medium, *Journal of Molecular Liquids*, 216 (2016) 42–52. (Indexed in SCI)
32. Jagadeesan Saranya, Palanisamy Sounthari, Kandhaswwamy Parameswari, Subramanian Chitra, Acenaphtho[1,2-b] quinoxaline and Acenaphtho[1,2-b]pyrazine as corrosion inhibitors for mild steel in acid medium, *Measurement*, 77 (2016) 175–186. (Indexed in SCI)
33. J. Saranya, P. Sounthari, K. Parameswari, S. Chitra, Adsorption and density functional theory on corrosion of mild steel by a quinoxaline derivative, *Der Pharma Chemica*, 7(8) (2015) 187-196. (Indexed in SCOPUS)
34. J. Saranya, P. Sounthari, K. Parameswari, S. Chitra, The inhibiting effect of some Quinoxaline derivative towards mild steel corrosion in acid media: Chemical,

Electrochemical and Theoretical studies, Journal of Materials and Environmental Science, 6 (2) (2015) 425-444. (Indexed in SCOPUS)

35. J. Saranya, G. Saranya, S. Yuvarani, P. Sounthari K. Parameswari, S. Chitra, Experimental and Quantum Chemical Studies on the Inhibition Potential of Some Quinoxaline Derivatives for Mild Steel in Acid Media, Oriental Journal of Chemistry, 30(4) (2014) 1719-1736. (Indexed in ESCI & SCOPUS)
36. Valarmathi Eswaramoorthi, Saranya Jagadeesan, Sounthari Palanisamy, Parameswari Kandhasamy & Subramanian Chitra, Soya bean oil-based polyurethanes for corrosion inhibition of mild steel in acid medium, Journal of Adhesion Science and Technology, 30 (5) (2016) 468-493 (Indexed in SCI)
37. P. Sounthari, J. Saranya, K. Parameswari, S. Chitra, Satin leaf (*Chrysophyllum oliviforme*) Extract Mediated Green Synthesis of Silver Nanoparticles: Antioxidant and Anticancer Activities, Journal of Pharmaceuticals Science and Research, 7(6) (2015) 266-273. (Indexed in SCOPUS)
38. G. Nirmala Devi, C. Nusrath Unnisa, J. Saranya, S. Chitra, "Electrochemical Studies of Reinforced Bars in Simulated pore solution using Natural Polymers" Journal of Materials and Environmental Science. 9 (12) (2018) 3227-3234 (Indexed in SCOPUS)
39. N. Anusuya, P. Sounthari J. Saranya, K. Parameswari, S. Chitra, Corrosion inhibition effect of hydroxy pyrazoline derivatives on mild steel in sulphuric acid solution together with Quantum chemical studies, Journal of Materials and Environmental science, 6 (6) (2015) 1606-1623. (Indexed in SCOPUS)
40. N. Anusuya, P. Sounthari J. Saranya, K. Parameswari, S. Chitra, Quantum chemical study on the corrosion inhibition property of some heterocyclic azole derivatives, Oriental Journal of Chemistry, 31 (3) (2015) 1741-1750. (Indexed in ESCI & SCOPUS)
41. Animesh Bain, B Ramakrishna Reddy, Prasad Ramchandra Baviskar, M Patil Milind, J Saranya, P Geethasree, R Shruthi, Ram Subbiah, Influence of Annealing Process on Wear Resistance of AISI 431 Martensitic Stainless Steel, E3S Web of Conferences, 309 (2021) 01125 (Indexed in SCOPUS)

42. M Mamatha Gandhi, J Saranya, G Keerthi Reddy, S Srikanth, Ch Keshav, M Niranjana, S Someshwar Rao, Ram Subbiah, Effect of Aqueous Solute Nitriding Process on AISI 304 Austenitic Stainless Steel under Dry Sliding Conditions, E3S Web of Conferences, 309 (2021) 01066 (Indexed in SCOPUS)
43. K Ramya Sree, D Raguraman, J Saranya, Animesh Bain, V Srinivas Viswanth, S Aparna, Ch Dhanush, Ram Subbiah, Dry Sliding Wear Behavior of Austenitic Stainless Steel Material by Gas Nitriding Process, E3S Web of Conferences, 309 (2021) 01181 (Indexed in SCOPUS)
44. ARS Krishna, KPS Kalyan, MCP Yadav, J Saranya, BC Nookaraju, Ram Subbiah, Assessment of AISI 304 stainless steel by cyaniding process under dry sliding conditions, Materials Today: Proceedings, 44 (2021) 1536-1539. (Indexed in SCOPUS)
45. S Koppula, VG Jagarlamudi, RS Prudhvi, A Rajkumar, S Prashanth, J Saranya, Ram Subbiah, Investigation of AISI 904L austenitic stainless steel by carbonitriding process under dry sliding conditions, Materials Today: Proceedings, 44 (2021) 1418-1422. (Indexed in SCOPUS)
46. MM Gandhi, A Bain, GL Prasanna, M Vamshi, J Saranya, N Dhruthi, Ram Subbiah, Examination on dry sliding wear behavior of AISI 304 stainless steel treated with salt bath nitriding process, Materials Today: Proceedings, 44 (2021) 1412-1417. (Indexed in SCOPUS)
47. KR Sree, GK Reddy, GL Prasanna, J Saranya, AA Lakshmi, M Swetha, Ram Subbiah, Dry sliding wear behavior of treated AISI 304 stainless steel by gas nitriding processes, Materials Today: Proceedings, 44 (2021) 1406-1411. (Indexed in SCOPUS)
48. LD Tadepalli, AM Gosala, L Kondamuru, TV Raj, T Anirudh, J Saranya, Ram Subbiah, Microstructure analysis and wear characterization of AISI 316 austenitic stainless steel by cyaniding process, Materials Today: Proceedings, 44 (2021) 1455-1458 (Indexed in SCOPUS)
49. P. Sounthari, A. Kiruthika, T. Kavitha, J. Saranya, H. Yuvaraj, K. Parameswari, S. Chitra, Polyester- Tobacco Composite: A Novel Anticorrosion Material for Mild Steel in Acid



Medium, *Materials Focus*, 3 (6) (2015) 455-464. (Indexed in ESCI)

50. S Chitra, K Parameswari, A Selvaraju, J Saranya, The Inhibition of Chalcone derivatives on the corrosion of mild steel in acid medium, *Journal of Electrochemical Society of India*, 58 (1/2) (2009) (Indexed in EI)
51. M Vamshi, J Saranya, R Subbiah, Improvement of Characteristics of AISI 310 Grade Stainless Steel Material by Carburizing E3S Web of Conferences, 184 (2020) 01023 (Indexed in SCOPUS)
52. GL Prasanna, J Saranya, R Subbiah, Assessment of AISI 431 Grade Stainless Steel properties by Vacuum Tempering Process, E3S Web of Conferences, 184 (2020) 01022 (Indexed in SCOPUS)

#### **Presentations in Conference/Seminar**

1. Presented a paper entitled “Corrosion Inhibition potential of quinoxaline derivatives for mild steel in 1M H<sub>2</sub>SO<sub>4</sub>” at the Three-day International conference on Chemistry: Frontiers and challenges conducted by the Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore during 05.02.2014 and 07.02.2014.
2. Presented a paper at the Three day International Conference on Electrochemical Science and Technology (ICONEST-2014) entitled “Adsorption and Density Functional Theory on corrosion of mild steel by (3E)-3-[[4-(phenylsulfonyl)]imino]-3,4-dihydroquinoxalin-2(1H)-one” organized by Indian Institute of Science during 07.08.2014 and 09.08.2014.
3. Presented a paper at the Three day International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC-2014) entitled “Acenaphthoquinone[1,2-b] quinoxaline and Acenaphtho[1,2-b]pyrazine : Efficient Corrosion Inhibitor for Mild Steel in Acid Medium” organized by National Institute of Technology, Tiruchirappalli during 27.09.2014 and 29.09.2014.
4. Presented and received the BEST PRESENTATION AWARD for a paper entitled “Corrosion inhibition and adsorption behavior of Thiadiazole derivatives on Mild Steel in acid medium: Experimental and Theoretical Studies” at the Two-day International Conference on International Corrosion Prevention Symposium for Research Scholars

(CORSYM-2015) at Indian Institute of Technology Madras during 31.07.2015 and 01.08.2015.

5. Presented a paper entitled “Thiazolo thiadiazole derivatives as corrosion inhibitors for mild steel in acid medium: Experimental and Theoretical Studies” at the Three-Day International Conference on Trend Setting Innovations in Chemical Sciences and Technology-Nature Inspired Chemistry and Engineering (TSCST NICE) during 4<sup>th</sup> -6<sup>th</sup> October 2016 in JNTUH, Hyderabad.
6. Presented a paper in the National Seminar on “Frontiers Areas in Chemistry” entitled “Inhibitive properties and Electrochemical characterization of 1,4-dihydroquinoxaline-2,3-dione derivative on mild steel in acid medium” conducted by The American College, Madurai during 27 & 28 Jan 2014.
7. Presented a paper in the National Convention of Electrochemists 18 (NCE-18) entitled “Pyran and Cyanopyran derivatives: A Pharmacological product as corrosion inhibitor for mild steel” organized by School of Chemistry, Madurai Kamaraj University, Madurai on 23 & 24 July 2014.
8. Presented a paper and won FIRST prize entitled “Experimental and Quantum chemical studies on corrosion inhibition performance of quinoxaline derivatives for mild steel in 1M H<sub>2</sub>SO<sub>4</sub>” in the One-day National Seminar on Recent Advances in Chemistry organized by Department of Chemistry, Arulmigu Palaniandavar College of Arts and Culture held on 11 Aug 2014.
9. Presented a paper entitled “Experimental and Quantum Chemical Studies on mild steel corrosion by 2, 3-di(furan-2-yl)quinoxaline and 2,3-di(furan-2-yl)pyrazine” in the 17th National Congress on Corrosion Control organized by CSIR CECRI, Karaikudi on 21 – 23 Aug 2014.
10. Presented a paper and won THIRD prize entitled “Experimental and Theoretical study for corrosion inhibition of mild steel in 1M H<sub>2</sub>SO<sub>4</sub> by some new thiadiazole-2-amine derivatives” in Two-day National Seminar on Recent Advances in Nanotechnology, Chemistry and Environmental Research (RANCER 2014) conducted by Kongu Engineering College, Perundurai during 11 & 12 Dec 2014.

11. Presented and won SECOND prize for a paper entitled “Inhibitive, adsorption and theoretical studies on quinoxaline and pyrazine derivative as corrosion inhibitors for mild steel in an acid medium” in the One-day National Seminar on The Widening Horizons of Chemistry organized by the Department of Chemistry, Arulmigu Palaniandavar Arts College for Women, Palani on 05 Mar 2015.
12. Presented a paper entitled “Corrosion inhibition properties of pyran and cyanopyran derivatives: Experimental and quantum chemical studies” at the Two-day National Conference on Recent Advances in Chemical Sciences [RACS-2015] organized by the Department of Chemistry, Gandhigram Rural Institute-Deemed University, Dindigul held on 05 & 06 Mar 2015.
13. Presented a paper entitled “Quantum chemical and electrochemical studies on the corrosion inhibition of mild steel in 1M H<sub>2</sub>SO<sub>4</sub> using thiadiazole derivatives” at the Corrosion Awareness Day (CAD 15) organized by the National Corrosion Council of India in collaboration with CSIR-Central Electrochemical Research Institute, Karaikudi, and The Gandhigram Rural Institute-Deemed University, Gandhigram at The Gandhigram Rural Institute-Deemed University, Gandhigram on 17 Apr 2015.
14. Presented a paper entitled “Thermal and electrochemical studies on the corrosion inhibition of polyesters for mild steel in 1M H<sub>2</sub>SO<sub>4</sub> medium” in the Corrosion Awareness Day (CAD 15) organized by the National Corrosion Council of India in collaboration with CSIR-Central Electrochemical Research Institute, Karaikudi and The Gandhigram Rural Institute-Deemed University, Gandhigram at The Gandhigram Rural Institute-Deemed University, Gandhigram on 17 Apr 2015.
15. Presented a paper at the 10<sup>th</sup> Mid-Year Chemical Research Society of India (CRSI), Symposium in Chemistry jointly organized by the National Institute of Technology and Bharathidasan University, Trichy entitled “Influence of quinoxaline and pyrazine derivative on the corrosion inhibition of mild steel in acid solution: Adsorption, electrochemical, surface and theoretical Studies” held at NIT, Tiruchirapalli during 23- 25 July 2017.
16. Presented a paper at the Two-day National Conference on Approach of Green Chemistry in Pharma: Chemical and Material Science Sectors – A Perspective entitled “The Inhibitory

action of Cyanopyran derivative for Acid and Rebar Corrosion in Simulated Pore solution” held at PSG College of Pharmacy, Coimbatore during 30 & 31 Oct 2015.

17. Presented a paper in the National Convention of Electrochemists 19 (NCE-19) entitled “Comparison of the inhibition property of Thiazolo Thiadiazole Derivative on Mild Steel in 1.5M H<sub>2</sub>SO<sub>4</sub>, 3M HCl and 1M H<sub>3</sub>PO<sub>4</sub>” held at NIT, Tiruchirapalli during 28 & 29 Mar 2016.
18. Presented a paper entitled “Biomass-derived hard carbon as anode for Na-ion battery: A short review” at the Two-day National Conference on Advanced Lithium Batteries: Science and Technology (NALiBST-2019) at IISc Bengaluru during 27-28 Dec 2019.

### **Participation in FDP/Workshop**

1. Participated in the Two-day National seminar on “Technical Teachers Quality Improvement (TTQI - 2009)” conducted by the Consortium of Self-Financing Professional, Arts & Science Colleges in Tamil Nadu between 30.05.2009 and 31.05.2009.
2. Participated in the day workshop on “Advanced Functional & Nano Materials” organized by the Centre of Excellence in Advanced Materials & Green Technologies (CoE-AMGT) in association with the Indian Institute of Chemical Engineers-Coimbatore chapter at Amirtha Viswa Vidyapeetham, Coimbatore on 05.02.2015.
3. Participated in “FDP101x: Foundation Program in ICT for Education” conducted by IIT BombayX from 03.08.2017 to 13.09.2017
4. Participated in “FDP201x: Pedagogy for Online and Blended Teaching-Learning Process” by IIT BombayX:14.09.2017 to 16.11.2017
5. Completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 28 Feb to 4 Mar 2022.
6. Completed the 5-day Face-to-Face UHV-II FDP organized by All India Council for Technical Education (AICTE) at Mar Baselios College of Engineering and Technology, Trivandrum from 29 Aug to 02 Sep 2022.

### **Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop**

1. Member Organizing committee – One-day FDP on Trends in Corrosion Chemistry and Drug Discovery, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad
2. Session Chair – International Conference on 5<sup>th</sup> International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-2023), Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad

### **Editorial/Reviewer Board Member**

Reviewer:

1. Journal of Molecular Liquids (Elsevier) since 2018
2. Arabian Journal of Chemistry (Elsevier), 2023
3. Surfaces and Interfaces (Elsevier), since 2023
4. Materials Chemistry and Physics (Elsevier), 2024
5. Chemical Physics Letters (Elsevier), 2020
6. Materials Today: Proceedings (Elsevier), since 2019
7. Waste Management (Elsevier), 2020
8. Chemistry Select (Wiley), 2019
9. ACS Omega (ACS), 2021
10. Mini-Reviews in Medicinal Chemistry (Bentham Science), 2018

Editorial board member:

1. Current Chinese Chemistry (Bentham Science), since 2020
2. Current Engineering Letters (Bentham Science), since 2020

### **Member in BoS**

1. BoS Member, Board of Chemistry, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, 2022-23
2. BoS Chairman, Board of Chemistry, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, 2018-19

**Membership in Professional Bodies**

<b>Name of the Professional body</b>	<b>Nature of Membership</b>	<b>Duration</b>
Indian Academic Researcher's Association (IARA)	Fellow member-Life time	-
Electrochemical Society of India (ECSI)	Life Member	-

**Awards / Honors**

<b>Awards / Honors</b>	<b>Agency / Institute</b>	<b>Year of Award</b>
Best Researcher	GRIET	2022
Best Researcher	GRIET	2021
National Eminent Researcher	International Institute of Organized Research	2021
International Distinguished Researcher	Academic Associates	2020
Best paper presentation (Oral)	IIT Madras, and NACE, India Section	2015
Best Paper presentation (Oral)	Kongu Engineering College	2015
Best Paper presentation (Poster)	APC	2014
Dr. Chattanathan's Award for the highest mark in Chemistry	CIT	2003