

# **JAMAL MOHAMED COLLEGE (Autonomous)**

**Accredited (3<sup>rd</sup> Cycle) with 'A' Grade by NAAC**

**DBT Star College Scheme & DST-FIST Funded**

**(Affiliated to Bharathidasan University)**

**Tiruchirappalli - 620 020.**



## **RESUME**

### **DEPARTMENT OF CHEMISTRY (Aided)**

**1. Name** : Dr. S.S. Syed Abuthahir

**2. Designation** : Assistant Professor

**3. Qualification** : M.Sc., M.Phil., Ph.D., DCA & MDTP.,

**4. Age** : 38 years

**5. Address:**

**Office** : PG and Research Department of Chemistry  
Jamal Mohamed College (Autonomous)  
Tiruchirappalli – 620 020  
Tamil Nadu  
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Phone: 0431 – 2332235\*304.  
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**Residential** : Plot No – 04, Bharathiar Street,  
Sheashayee Nagar  
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Mobile: +91-9043875638, 9965875638.

## 6. Educational Qualifications

| S.No. | Examination Passed                         | College / University  | Year of Passing |
|-------|--|---|-----------------|
| 1.    | Ph.D (Chemistry)                           | Jamal Mohamed College (Autonomous),<br>(Bharathidasan University), Trichy.    | 2015            |
| 2.    | M.Phil (Chemistry)                         | Jamal Mohamed College (Autonomous),<br>(Bharathidasan University), Trichy.    | 2009            |
| 3.    | M.Sc. (Chemistry)                          | Jamal Mohamed College (Autonomous),<br>(Bharathidasan University), Trichy.    | 2008            |
| 3.    | B.Sc. (Chemistry)                          | Jamal Mohamed College,<br>(Bharathidasan University), Trichy.                 | 2006            |
| 4.    | DCA & MDTP                                 | Jamal Mohamed College,<br>(Ministry of Human Resource Development),<br>Delhi. | 2005            |
| 5.    | Certificate Course in Deeniyath Education. | Jamal Mohamed College,<br>Trichy.   | 2005            |

**7. Experience** : Undergraduate: 13 Years  
: Postgraduate : 07 Years  
: M.Phil : 07 Years

**8. Areas of Specialization** : Corrosion Inhibitors, Inorganic Chemistry

**9. Languages known** : Tamil & English

## 10. Subjects Taught

Under Graduate/ Postgraduate : 1. Inorganic Chemistry  
2. Organic Chemistry  
3. Physical Chemistry  
4. Analytical Chemistry  
5. Applied Chemistry  
6. Green Chemistry and  
7. General Chemistry

## 11. Research Experience

1. Corrosion Inhibitors  
2. Inorganic Metal Complexes Synthesis  
3. Synthetic Organic Chemistry

## 12. Research Guidance

- ❖ Recognized Research Supervisor for M.Phil and Ph.D Programmes in Bharathidasan University, Tiruchirappalli-24.

| Research Programme | Completed | Pursuing |
|--------------------|-----------|----------|
| M.Phil             | 07        | 01       |
| Ph. D              | 02        | 04       |

## 13. Teaching Experience

2009-2010: MAR College of Engineering and Technology (Affiliated to Anna University of Technology, Tiruchirappalli), Viralmalai, Tiruchirappalli, Tamilnadu, India.  
(Handled Classes for B.E (Bachelor of Engineering) Graduates

2010-2015: RVS School of Engineering and Technology (Affiliated to Anna University Chennai) Dindigul, Tamilnadu, India.  
(Handled Classes for B.E (Bachelor of Engineering) Graduates

2016 - Present: Jamal Mohamed College (Autonomous) (Affiliated to Bharathidasan University, Trichy) Tiruchirappalli, Tamilnadu, India.  
Handling Classes for Graduates and Post Graduates in Chemistry.

## 14. Research Area of Interest

1. Corrosion Inhibitors
2. Synthesis of Inorganic Metal Complex
3. Synthetic Organic Chemistry

## 15. Research Grants

| S. No | Funding Agency                     | Total Grant (Rs.) | Title of the Project   | Period    |
|-------|------------------------------------|-------------------|--|-----------|
| 1.    | Jamal Mohamed College (Seed Money) | 10,000            | Corrosion inhibition effect of mild steel in concrete pore solution in presence of synthetic urine | 2021-2022 |

## 16. Copyright filed in Government of India (Diary No. 20013)

**Title:** Novel composition for improved delivery of Drugs with poor aqueous solubility.

## 17. Patent filed in Government of India (Docket No: 24032)

**Title:** Microwave assisted one pot method for synthesizing fluorescent carbon dots from chayote seeds

## 18. Member - Board of studies

- ❖ Subject expert for the Board of Studies of UG Chemistry Programme of GTN Arts College (Autonomous), Dindigul.

## **19. Orientation/Refresher/FDP/Workshop Programme**

- ❖ Participated in the 28 Days UGC Sponsored Orientation Programme in Staff Academic College, UGC-HRDC Calicut University, Calicut, at kerala from 03.08.2017 to 30.08.2017.
- ❖ Participated in the 21 Days UGC Sponsored Refresher Course in Chemistry at Staff Academic College, UGC-HRDC University of Hyderabad, Central University, Hyderabad from 05.09.2018 to 25.09.2018.
- ❖ Participated in the 14 Days UGC Sponsored Online Refresher Course in Chemistry at Staff Academic College, UGC-HRDC Pondicherry University, Central University, Puducherry from 15.07.2021 to 28.07.2021.
- ❖ Participated in the 14 Days UGC Sponsored Refresher Course in Chemistry at Staff Academic College, UGC-HRDC University of Hyderabad, Central University, Hyderabad from 10.10.2022 to 22.10.2022.
- ❖ Completed a Two weeks Faculty Development Programme on Managing Online Classes and Co-Creating MOOCs Organized by Teaching Learning Centre, Ramanujam College, University of Delhi Sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 20.04.2020 to 06.05.2020.
- ❖ Completed a Two Week MOOC Workshop for College Teachers on Management of Environment and its resources Jointly conducted by Department of Chemistry and Research, Nesamony Memorial Christian College, Marthandam and Department of Chemistry and Research, Xt. Xaviers College (Autonomous), Palayamkottai, Tirunelveli from 28.04.2020 and 11.05.2020.
- ❖ Participated in TEQIP – III Sponsored One Week Short Term Course entitled “Chemistry for Engineering Applications” Organized by Department of Chemistry, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab from 14.09.2020 to 18.09.2020.
- ❖ Participated in the Five Days Online Faculty Development on “Effective Teaching” Organized by Department of Applied Sciences, Sri Balaji College of Engineering and Technology, Jaipur from 20.12.2021 to 24.12.2021.

## **20. Additional Responsibilities**

- ❖ Department Coordinator – DBT Star College Scheme from July 2020 to till date.
- ❖ Department Library In charge from June 2018 to till date.
- ❖ In charge of Department IQAC Microcell Member from June 2019 to till date.
- ❖ In-charge in the preparation of Department Academic Audit Report.

- ❖ In-charge in the preparation of AQAR.
- ❖ Acting as in-charge in the Department Store-Keeping from June 2018 from to till date.
- ❖ Handling classes in Deeniyath Education for UG Students since 2017.
- ❖ Member of Question setting and Valuation board in Jamal Mohamed College (Autonomous) and Bharathidasan University Tiruchirappalli.
- ❖ Acting as Doctoral Committee member for Ph.D Research Scholars.
- ❖ Served as **Examcell Coordinator** in RVS Educational Trust's Group of Institutions, Dindigul from 02.08.2010 to 30.01.2016.
- ❖ Acted as **Chief Superintendent** for Tamilnadu Public Service Examinations (6 times).
- ❖ Served as **First Year Academic Co-ordinator** in RVS School of Engineering and Technology, Dindigul, from 2010 to 2011.
- ❖ Member Incharge for College Calendar and General Time Table at RVS School of Engineering and Technology, Dindigul during the academic year 2010 - 2011.
- ❖ Acted as Anna University Representative (AUR) for Anna University, Chennai April/May-2014 Theory Examinations.
- ❖ Acted as Chief Anna University Representative (CAUR) for Anna University, Chennai Nov/Dec-2015 Theory Examinations.
- ❖ Acted as Internal and External Examiner for Anna University Practical Examinations.
- ❖ Acted as Examiner for Anna University Chennai central Valuation.
- ❖ Served as **Editor** of **Anti Dowry Association (ADA)**, Jamal Mohamed College, Tiruchirappalli, India, from 2005 to 2006.

## 21. Details of Publications

1. International Journal of Technology and Engineering Science, 1 (3), (2013), 226-230.  
**Title:** Corrosion Inhibition of Mild Steel by 1-(8-Hydroxyquinolin-2yl-methyl) urea.
2. Indian Journal of Applied Research, 3 (7), (2013), 116-119.  
**Title:** Inhibition of Mild Steel Corrosion by Nickel Complex of 1-(8-Hydroxyquinolin-2yl-methyl) urea in Sodium Chloride solution.
3. European Chemical Bulletin, 2(11), (2013), 932-935.

- . **Title:** Electrochemical and Surface Analysis Studies on Corrosion Inhibition of Mild Steel by 1-(8-Hydroxyquinolin-2yl- methyl) thiourea.
4. Applied Chemistry, 61, (2013), 16837-16841.  
**Title:** Electrochemical behavior of Zinc Complex of 1-(8-Hydroxyquinolin-2yl- methyl) urea as Corrosion Inhibitor for Mild Steel.
5. European Chemical Bulletin, 2(12), (2013), 1041-1044.  
**Title:** Highly Effective Inorganic Corrosion Inhibitor for Mild Steel in Sodium Chloride Solution.
6. European Chemical Bulletin, 3(1), (2014), 40-45.  
**Title:** Inhibition of Mild Steel Corrosion by 1-(8-Hydroxyquinolin-2yl- methyl) urea.
7. Oriental Journal of Chemistry, 27(1), (2011), 333-335.  
**Title:** Synthesis and Characterization of new Spiro Heterocycles.
8. Chemical Science Transactions, 3(1), (2014), 303-313.  
**Title:** Synthesis, Spectral Studies and Antibacterial Activities of 8-Hydroxyquinoline Derivative and its Metal Complexes.
9. Journal of Chemical, Biological and Physical Sciences, 4(4), (2014), 3001-3010.  
**Title:** Investigation on the Inhibition of Mild Steel Corrosion in neutral solution by 1-(8- Hydroxy quinolin-2yl-methyl) thiourea.
10. The Open Material Science Journal, 8, (2014), 71-80.  
**Title:** Inhibition effect of copper complex of 1-(8-Hydroxy quinolin-2yl-methyl) thiourea on the corrosion of mild steel in Sodium Chloride solution.
11. International Journal of Nano Corrosion Science and Engineering, 1(1), (2014), 63-73.  
**Title:** Recent Trends in terpolymer preparation and characterization- An overview.
12. Journal of the International Association of Advanced Technology and Science, 16, Feb, 2015.  
**Title:** Corrosion inhibition of mild steel in Sodium Chloride solution by Nickel complex of 1-(8-Hydroxy quinolin-2yl-methyl) thiourea.
13. Journal of Chemical and Pharmaceutical Research, 7(10S), (2015), 193-200.  
**Title:** Corrosion inhibition of mild steel in Sodium Chloride solution by Copper complex of 1-(8-Hydroxy quinolin-2yl-methyl) urea.
14. Journal Applied Chemical Science International, 5(3), (2016), 134-146.  
**Title:** Electrochemical study of the corrosion behavior of Mild steel with Zinc Complex of 1-(8-Hydroxy quinolin-2yl-methyl) thiourea as Inhibitor in Sodium Chloride solution.

15. New Invention of RVSSOET Published in Dinamalar News Paper on 02.07.2015.  
**Title:** Decolourisation of Sewage from Paint industry by using sea water.
16. International Journal of Nano Corrosion Science and Engineering, 2(5), (2015), 270-280.  
**Title:** Corrosion resistance of Galvanized Iron immersed in simulated concrete pore solution prepared in well water in the presence of neem extract.
17. Journal of Chemical and Pharmaceutical Research, 8(1S), (2016), 5-11.  
**Title:** Synthesis, Characterization and Biological Activities of 1,3,4-Thiadiazole Derivatives.
18. Journal of Chemical and Pharmaceutical Science, 9(1), (2016), 166-168.  
**Title:** Cannons of Dindigul Fort- A marvel of Indian Metallurgical Skill.
19. International Journal of Advanced Chemical Science and Applications, 3(4),( 2015), 54-59.  
**Title:** Synergistic Corrosion Inhibition Effect of Carbon Steel in Sea Water by Hydroxy Proline -  $Zn^{2+}$  System.
20. International Journal of Nano Corrosion Science and Engineering, 3(4), (2016), 428-442.  
**Title:** Cobalt Complex of 8-Hydroxy quinoline Derivative as Potential Corrosion Inhibitor for Mild Steel in aqueous Sodium Chloride Solution.
21. International Journal of Nano Corrosion Science and Engineering, 4(1), (2017), 55-64.  
**Title:** Corrosion behaviour of 18 Carat Gold with Artificial Saliva in Presence of Brufen 400 mg Tablet.
22. International Journal of Scientific Engineering and Applied Science, 3(4), (2017), 01-09.  
**Title:** Electrochemical behaviour of 22 carat gold with artificial saliva in presence of Aceclofenac 100 mg tablet.
23. Journal of Advanced Applied Scientific Research, 1(7), (2017), 1-9.  
**Title:** Electrochemical study of 18 carat gold with artificial saliva in presence of aceclofenac 100 mg tablet
24. Asian Journal of Biochemical and Pharmaceutical Research, 7 (1), (2017), 43-49.  
**Title:** Influence of Aceclofenac 100 mg on Corrosion Resistance of SS 316 L Immersed in Artificial Saliva.
25. Journal of Advanced Applied Scientific Research, 1(7), (2017), 1-20.  
**Title:** Corrosion behavior of Mild Steel in Sodium Chloride solution by Copper Complex of (8- hydroxy quinoline) Derivative.
26. International Journal of Chemical Concepts, 3(2), (2017), 196-200.  
**Title:** Green Synthesis of Nano Iron Oxide particles from mild steel.
27. Innovations in Corrosion and Material Science, 7(2), (2017), 1-8.  
**Title:** Electrochemical Behavior of 18ct gold with artificial saliva in presence of Ciprofloxacin and Nimesulide Tablets.

28. International Journal of Chemical Concepts, 3(1), (2017), 161-173.  
**Title:** Corrosion Inhibition by Self-assembling Nano films of Tween 60 on Mild steel surface.
29. Journal of Emerging Technologies and Innovative Research, 5(11), (2018), 604-611.  
**Title:** Corrosion resistance of zinc metal on acid solutions by using Dihexyl Sulphide as Inhibitor.
30. International Journal of Research and Analytical Reviews, 5(4), (2018), 104-**109**.  
**Title:** Di Octylsulphide as a Corrosion Inhibitor for Zinc Metal in Acidic Solution.
31. International Journal of Technical Innovation in Modern Engineering & Science, 4(11), (2018), 388-394.  
**Title:** Corrosion Inhibition of Zinc Metal in Acid Medium by Using 2-Ethyl Imidazole.
32. International Journal of interdisciplinary Research and Innovations, 6(4), (2018), 424-433.  
**Title:** Inhibition effect of 2-Mercapto-1-Methyl imidazole on the corrosion of Zinc metal in 0.5 N sulphuric acid.
33. International Journal of Research and Analytical Reviews, 5(4), (2018), 744-751.  
**Title:** Synthesis, Characterization and Corrosion Inhibition efficiency of 5-(2, 4-dichloro-phenyl)-1-phenyl-4, 5-dihydro-1H-pyrazol-3-yl-phenyl-amine (CPP): on mild steel in 1M Hydrochloric acid.
34. Journal of Emerging Technologies and Innovative Research, 5(11), (2018), 755-758.  
**Title:** Synthesis and Characterization of some novel Heterocyclic Chalcone Derivatives.
35. International Journal of Scientific Research and Review, 7(4), (2018), 2046-2060.  
**Title:** Highly effective organic corrosion inhibitor for zinc metal in 0.5 N Hydrochloric acid solution.
36. Tathapi UGC Care Journal, 19 (26)-June- (2020), 158 – 184.  
**Title :** Corrosion Resistance Effect of Glutaric acid on Carbon Steel in Seawater.
37. Journal of Research in Applied Chemistry, 3(2), (2020), 9 – 24.  
**Title:** Aqueous Extract Gloriosa Superba Leaf as a Corrosion Green Inhibitor on Mild Steel in 1.0 m HCl Medium.
38. International Journal of Research, 7(6), (2020), 156- 183.  
**Title:** Corrosion inhibition of mild steel in sodium chloride solution by Glutaric acid.
39. Indian Journal of Natural Sciences, 10(62), 28182- 28189, 2020.  
**Title:** Removal of Heavy Metals from Aqueous Solution by using Agricultural and Industrial Wastes as adsorbents.
40. Indian Journal of Natural Sciences, 12(66), 32309 - 32323, 2021.  
**Title:** Electrochemical Studies and Surface Characterization of Dipropyl Sulphide on Zinc metal in 0.5 N Hydrochloric acid.



41. Indian Journal of Natural Sciences, 12(67), 33696 - 33711, 2021.  
**Title:** Thermodynamic, Adsorption and Electrochemical Studies of Mild Steel in 0.5M HCl Solution by using Green Inhibitor.
42. Asian Journal of Chemistry, 33(9), 2219 - 2228, 2021.  
**Title:** Corrosion inhibition of mild steel in 0.5M H<sub>2</sub>SO<sub>4</sub> solution by plant extract of *Annona Squamosa*.
43. International Journal of corrosion and scale inhibition, 10(4), 1531- 1546, 2021.  
**Title:** Inhibition of mild steel corrosion in 0.5 M sulfuric acid by an aqueous extract of leaves of *Tectona grandis* L. plant.
44. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 198- 215, 2021.  
**Title:** Corrosion inhibition effect of 2-[(2-Mercapto phenylimino) methyl] benzoic acid for mild steel in simulated concrete pore solution.
45. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 216- 232, 2021.  
**Title:** Inhibition of corrosion of carbon steel in hydrochloric acid by aqueous leaves extract of *Oxalis Corniculata* Linn (OCLP).
46. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 138- 162, 2021.  
**Title:** Assessment of anti-corrosion potential of *rosa-sinensis* plant leaves extract on mild steel immersed in 0.5M H<sub>2</sub>SO<sub>4</sub>.
47. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 289- 295, 2021.  
**Title:** Seasonal variations in physicochemical parameters of groundwater near Thamirabharani river band in Tirunelveli District, Tamilnadu, India.
48. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 296- 304, 2021.  
**Title:** Study of heavy metal pollution in ground water near proximity of Thamirabharani River, Tamil Nadu, India.
49. Asian Journal of Chemistry, 33(12), 3115 - 3122, 2021.  
**Title:** Corrosion inhibition of carbon steel using dipropyl sulphide as inhibitor system in sulphuric acid solution.
50. International Journal of Biology, Pharmacy and Allied Sciences, 10(11), 1478- 1496, 2021.  
**Title:** Corrosion inhibition effect of an aqueous extract of *Oxalis Acetulosa* plant leaves on mild steel immersed in 1M Hydrochloric Acid.
51. Biosc.Biotech.Res.Comm. Special Issue Vol 14(7), 481-488, 2021.  
**Title:** Corrosion Resistance of Carbon Steel Immersed in Simulated Concrete Pore Solution in the Presence of Amino Benzoic Acid.
52. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 346-353, 2022.  
**Title:** Inhibitory efficacy of bioactive compounds extracted from areca catechu l. nut on matrix metalloproteinases an *in-silico* study.

53. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 397-402, 2022.  
**Title:** Effect of doping in copper oxide nanoparticles studied by Xray diffraction.
54. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 403-414, 2022.  
**Title:** Corrosion resistance effect of dinonyl sulphide (DNS) on zinc metal immersed in 0.5N hydrochloric acid.
55. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 468-478, 2022.  
**Title:** Evaluation of corrosion resistance of an aqueous extract of *Trifolium pratense* plant leaves on mild steel immersed in acidic media.
56. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 549-556, 2022.  
**Title:** Anti-corrosive effect of tablets onni-ti alloyin presence artificial saliva.
57. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 629-636, 2022.  
**Title:** Analysis of ground water quality based on WQI and SAR in and around salem district, Tamil nadu, India.
58. Bulletin of Environment, Pharmacology and Life Sciences. Special Issue (1), 2022.  
**Title:** Water quality index of groundwater proximityto ramanathapuram district, Tamil nadu, India.
59. Pharmacia, 69(2): 447–451, 2022.  
**Title:** Phytochemical extraction and comparative analysis of antioxidant activities of Areca catechu L. nut extracts.
60. International Journal of Zoological Investigation, 8: 7–17, 2022.  
**Title:** Identification of Medically Important Phytochemicals in Solvent Extracts of Areca catechu L. Nut.
61. Portugaliae Electrochimica Acta, 41, 1-15, 2023.  
**Title:** Corrosion resistance, electrochemical studies and surface morphology of mild steel by using dibutyl sulphide inhibitor in sulphuric acid medium.
62. Materials Today: Proceedings, 69, 1501-1508, 2022.  
**Title:** Electrochemical behaviour of carbon steel in sodium chloride solution by using thiophenol derivative inhibitor.
63. International Journal of corrosion and scale inhibition, 11(4), 1819- 1838, 2022.  
**Title:** Corrosion inhibition performance of carbon steel in 1N hydrochloric acid by an aqueous extract of *Syzygium cumini* Linn (SCL) plant leaves.
64. International Journal of Zoological Investigation, 8(1): 48–56, 2022.  
**Title:** Analyzing the Quality and Stability of Ground Water for Irrigation and Human Use in Salem District, Tamil Nadu, India, Using a Hydrological Technique.

65. European Journal of Molecular & Clinical Medicine, 9(8): 3406–3423, 2022.  
**Title:** Corrosion Behaviour of Carbon steel in Sea water using Amino Benzoic acid inhibitor.
66. European Journal of Molecular & Clinical Medicine, 10(1): 2681–2689, 2023.  
**Title:** Evaluation of Groundwater Quality in and around Ramanathapuram District, Tamil Nadu, India by using Hydrogeochemical Facies Analysis and Wilcox Diagram.

## 22. Details of Research Abstract / Articles Published in Conference Proceedings

1. Published a Research Abstract entitled “Corrosion resistance of mild steel by Zinc Complex of 1-(8-Hydroxyquinolin- 2yl-methyl) urea in Sodium chloride Solution” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry, Organized by the Department of Chemistry, APA College of Arts and Science, Palani, Tamilnadu on 09.07.2021.
2. Published a Research Abstract entitled “Corrosion inhibition effect of amino benzoic acid in an aqueous solution containing sodium chloride solution” in the National Conference on Innovation in Science and Technology (NCIST 2021) Organized by the Department of Humanities and Sciences, Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor-517 127, Andhra Pradesh from 08.07.2021 to 09.07.2021.
3. Published a Research Abstract entitled “Electrochemical behaviour of carbon steel in sea water by using benzimidazole inhibitor” in the e- International conference on Recent Trends in Smart Materials (ICRTSM 2022) Jointly Organized by the Department of Physics and Chemistry, Kings College of Engineering, Punalkulam, Pudukottai - 613 313, Tamilnadu on 25.06.2022.
4. Published a Research Abstract entitled “Study of corrosion resistance of zinc metal by using *Annona squamosa* plant leaves” in the International level conference on Tropical Drifts in Nano science and Green Chemistry (TDNSGC 22) Jointly Organized by the Department of Chemistry and Bio-Chemistry, Theni Melapettai Hindu Nadargal Uravinmurai, Nadar Saraswathi College of Arts & Science, Theni, Tamilnadu from 21.09.2022 to 22.09.2022.
5. Published a Research Abstract entitled “Adsorption and corrosion studies of the aqueous extract of *Cardia dichotoma* plant leaves on carbon steel in hydrochloric acid” in the International level conference on Tropical Drifts in Nano science and Green Chemistry (TDNSGC 22) Jointly Organized by the Department of Chemistry and Bio-Chemistry, Theni Melapettai Hindu Nadargal Uravinmurai, Nadar Saraswathi College of Arts & Science, Theni, Tamilnadu from 21.09.2022 to 22.09.2022.
6. Published a Research Abstract entitled “Study of Presence of Insecticides and Pesticides in Various Fruits, Vegetables and Beverages” in the National conference on Innovation in Nanoresearch (NCINR 2022) Jointly Organized by the PG and Research Department of Physics and PG Department of Chemistry, Jairams Arts and Science College, Karur, Tamilnadu on 21.09.2022.
7. Published a Research Paper entitled “Anti-corrosion behaviour of carbon steel in hydrochloric acid solution by Plant Leaves Extract inhibitor” in the International Virtual

Conference on Materials Research (IVCMR – 22) Organized by the Department of Physics, Easwari Engineering College (Autonomous), Chennai-89, from 15.09.2022 to 16.09.2022.

8. Published a Research Abstract entitled Adsorption and evaluation of corrosion studies of the aqueous extract of *trichosanthes cucumerina* linn plant leaves on carbon steel in hydrochloric acid in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
9. Published a Research Abstract entitled Anti-Corrosive properties of 2-(Benzylidene-Amino)-Benzenethiol in mild steel immersed under sulphuric acid in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
10. Published a Research Abstract entitled Study of corrosion resistance of zinc metal by using *Annona Squamosa* plant leaves in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
11. Published a Research Abstract entitled Inhibitory Efficacy of Bioactive Compounds Extracted from *Areca catechu* L. nut on Matrix Metalloproteinases an in-Silico Study in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
12. Published a Research Abstract entitled Adsorption and corrosion studies of the aqueous extract of *Coccinia cordifolia* plant leaves on carbon steel in hydrochloric acid in the International Conference on Expanding Frontiers in Chemistry (EFC 23), organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur - 625514 from 15-02-2023 to 16-02-2023.
13. Published a Research Abstract entitled In vitro and in silico studies on the anti-inflammatory properties of arecoline from *Areca catechu* L. nut in the International Conference on Expanding Frontiers in Chemistry (EFC 23), organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur - 625514 from 15-02-2023 to 16-02-2023.

### **23. Details of Books / Chapter published**

1. Moral Education – Book Chapter – Health and Hygiene, Jamal Mohamed College (Autonomous), Tiruchirappalli- 20, Tamilnadu, India.

## 24. Details of Papers Presented

1. Presented a research paper entitled "Synthesis, Characterization and Biological activities of some Imidazoline derivatives" in the National Conference on Frontiers in Chemistry Organised by SRM University Chennai on 24<sup>th</sup> & 25<sup>th</sup> January 2008.
2. Presented a research paper entitled "Synthesis, Characterization and Anti-Microbial activities of some Imidazoline derivatives" in National level seminar on Recent Trends in Chemistry organized by Gobi Arts & Science College Gobichettipalayam on 2<sup>nd</sup> February 2008.
3. Presented a research paper entitled "Synthesis, Characterization and Anti-Microbial activities of some Thiadiazole derivatives" in the state level seminar on Modern Techniques in Chemistry Organised by Jamal Mohamed College, Trichy during 5<sup>th</sup> & 6<sup>th</sup> March 2008.
4. Presented a research Paper entitled "Synthesis and Characterization of Some Novel Heterocycles" CSIR Sponsored National Seminar on Modern Trends in chemistry Organized by PSNA College of Engineering and Technology, Dindigul on 23<sup>rd</sup> & 24<sup>th</sup> February 2012.
5. Presented a research Paper entitled "Synthesis, Characterization and Antibacterial Activities of 8-hydroxyquinoline Derivatives" in the National Conference on Recent Advances in Chemical Sciences Organized by University College of Engineering, Dindigul on 20<sup>th</sup> February 2013.
6. Presented a research Paper entitled "Investigation on the Inhibition of Mild Steel in Sodium Chloride Solution by 1-(8-hydroxy quinolin-2yl-methyl) thiourea" in the One Day National Conference on Recent Trends in Material Science Organized by M.Kumarasamy College of Engineering, Karur on 7<sup>th</sup> November 2013.
7. Presented a research Paper entitled "Synthesis and Spectrometric Studies on the Charge Transfer Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea with DDQ" in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.
8. Presented a research Paper entitled "Investigation on the Inhibition of Mild Steel in Sodium Chloride Solution by Nickel Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea" in the Two Days National Seminar on Modern Trends in Chemistry Organized by PSNA College of Engineering and Technology, Dindigul on 24<sup>th</sup> & 25<sup>th</sup> July 2014.
9. Presented a research Paper entitled "Synthesis of Silver Nanoparticles using Sodium Potassium Tartate as reducing agents by Electrochemical Method" in the UGC Sponsored

One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.

10. Presented a research Paper entitled “Corrosion resistance of mild steel by Zinc Complex of 1-(8-hydroxyquinolin-2yl-methyl) urea in Sodium chloride Solution” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by APA College of Arts and Culture, Palani, on 11<sup>th</sup> August 2014.
11. Presented a research Paper entitled “Influence of Copper Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea on Inhibition of Corrosion of Carbon Steel in Sodium Chloride solution” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.
12. Presented a research Paper entitled “Synthesis, Characterization and Antibacterial activities of Schiff Base and its Zinc Complex” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.
13. Presented a research Paper entitled “Synthesis and Spectrometric Studies on the Charge Transfer Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea with DDQ” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.
14. Presented a research Paper entitled “Electrochemical Synthesis of Silver Nanoparticles Using Trisodium Citrate as reducing agents” in the UGC Sponsored One Day National Level Seminar on Recent Advances in Chemistry Organized by GTN Arts College, Dindigul, on 18<sup>th</sup> March 2015.
15. Presented a research Paper entitled “Corrosion inhibition of mild steel in sodium chloride solution by Copper Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea” in the SERB Sponsored Two Days National Conference on Bio-inorganic Chemsitry in Medicinal fields at Mohamed Sathak Engineering College, Ramanathapuram, on 28<sup>th</sup> & 29<sup>th</sup> August 2015.
16. Presented a research Paper entitled “Corrosion inhibition of mild steel by Copper Complex of 8-hydroxy quinoline Derivatives” in the National Seminar on Recent Challenges to Environment at Sakthi College of Arts and Science for Women, Oddanchathram, on 25<sup>th</sup> September 2015.
17. Presented a research Paper entitled “Cannons of Dindigul Fort- A marvel of Indian Metallurgical Skill” in the International Conference on Recent Advancement in Materials at Anna University BIT Campus, Trichy, on 16<sup>th</sup> & 17<sup>th</sup> October 2015.
18. Presented a research Paper entitled “Synthesis, Characterization and Biological activities of 1,3,4-Thiadiazole Derivatives ” in the Two Days National Conference on Recent Frontiers

in Bioinorganic and Medicinal Chemistry at Sree Sowdambiga Engineering College, Aruppukkottai, on 27<sup>th</sup> & 28<sup>th</sup> November 2015.

19. Presented a research Paper entitled “Green Synthesis of Nano Iron Oxide Particles from mild steel” in the Three Days International Conference on Nanomaterials for Frontier Applications Organized by Coimbatore Institute of Technology, Coimbatore Jointly with Bergen University College, Norway, on 2<sup>nd</sup> to 4<sup>th</sup> December 2015.
20. Presented a research Paper entitled “Corrosion Inhibition by Self Assembling Nano Films of Tween60 on mild steel surface” in the Three Days International Conference on Nanomaterials for Frontier Applications Organized by Coimbatore Institute of Technology, Coimbatore Jointly with Bergen University College, Norway, on 2<sup>nd</sup> to 4<sup>th</sup> December 2015.
21. Presented a research Paper entitled “Synthesis of 1-(8-Hydroxy quinolin-2yl-methyl) thiourea and Interaction studies on the charge transfer complexes of 8HyQMTU with 2, 3-dichloro- 5,6-dicyano-1,4-benzoquinone” in the International Conference on Recent Advances in Materials and Chemical Sciences at Gandhigram Rural Institute – Deemed University, Dindigul on 14<sup>th</sup> & 15<sup>th</sup> December 2015.
22. Presented a research Paper entitled “Corrosion resistance of Galvanized Iron immersed in simulated concrete pore solution prepared in well water in the presence of neem extract” in the International Conference on Chemical and Environmental Research at Jamal Mohamed College, Tiruchirappalli on 17<sup>th</sup> December 2015.
23. Presented a research Paper entitled “Synergistic Corrosion Inhibition Effect of Carbon Steel in Sea Water by Hydroxy Proline -  $Zn^{2+}$  System” in the International Seminar on Environment and Sustainable Development (SESD 2016) at SRM University, Kattankulathur, Chennai on 3<sup>rd</sup> June 2016.
24. Presented a research Paper entitled “Cobalt Complex of 1-(8-hydroxy quinolin-2yl-methyl urea) as a Corrosion Inhibitor for Mild Steel in Sodium Chloride Solution” in National Seminar on Innovative Research on Chemical Sciences (IRCS-2016) at Khadir Mohideen College, Adirampattinam, on 25<sup>th</sup> September 2016.
25. Presented a research Paper entitled “Cobalt Complex of 8-hydroxy quinoline Derivative as Potential Corrosion Inhibitor for Mild Steel in Sodium Chloride Solution” in National Level Seminar on New Perspective in Science and Technology (NPST-2016) at St. Antony’s College of Arts and Science for Women, Dindigul, on 07<sup>th</sup> October 2016.
26. Presented a research Paper entitled “Corrosion Resistance of 18 Carat Gold with Artificial Saliva in Presence of Nuro Kind Tablet” in National Conference on Computational and

Experimental Physics of Functional Materials (NCCEPFM-16) at KSR College of Arts and Science for Women, Namakkal, on 16<sup>th</sup>-17<sup>th</sup> December 2016.

27. Presented a research Paper entitled “Corrosion behavior of Mild Steel in Sodium Chloride solution by copper complex of (8-hydroxy quinoline) Derivative” in International Conference on Chemical and Environmental Research (ICCER-2017) at Jamal Mohamed College (Autonomous), Tiruchirappalli, on 07<sup>th</sup> January 2017.
28. Presented a research Paper entitled “Electrochemical study of 18 carat gold with artificial saliva in presence of aceclofenac 100 mg tablet” in International Conference on Chemical and Environmental Research (ICCER-2017) at Jamal Mohamed College (Autonomous), Tiruchirappalli, on 07<sup>th</sup> January 2017.
29. Presented a research Paper entitled “Can people implanted with orthodontic wire made of CuNiTi alloy Drink sprite? –Yes” in International Conference on Chemical and Environmental Research (ICCER-2017) at Jamal Mohamed College (Autonomous), Tiruchirappalli, on 07<sup>th</sup> January 2017.
30. Presented a research Paper entitled “Corrosion resistance of 22 carat gold in Artificial Saliva in presence of brufen 400 mg tablet” in International Conference on Recent Advances in Material Chemistry (ICRAMC-2017) at SRM University, Kattankulathur, Chennai, on 15-17<sup>th</sup> February 2017.
31. Presented a research Paper entitled “Corrosion behavior of SS316L with Artificial Saliva in presence of nurokind tablet” in National Conference on Biomaterials in Chemistry (BMC-2017) at Madurai Kamaraj University, Madurai, on 12-13<sup>th</sup> April 2017.
32. Presented a research Paper entitled “Corrosion behavior of SS 18/8 with Artificial Saliva in presence of Aceclofenac 100 mg tablet” in Two Days National Seminar on Frontier Areas in Chemical Sciences (FACS-2017) at Virudhunagar Hindu Nadars Senthilkumara Nadar College (Autonomous), Virudhunagar, on 22-23<sup>rd</sup> June 2017.
33. Presented a research Paper entitled “Cobalt Complex of 1-(8-hydroxy quinolin-2yl-methyl) urea as Corrosion Inhibitor for Mild steel in Sodium Chloride solution” in International Seminar on Perspectives in Science and Technology (INPST-2017) at St.Antony’s College of Arts and Science for women, Dindigul, on 11<sup>th</sup> October 2017.
34. Presented a research Paper entitled “Corrosion resistance SS316L in Artificial Saliva in Presence of Brufen 400 mg tablet” in International Seminar on Perspectives in Science and Technology (INPST-2017) at St.Antony’s College of Arts and Science for women, Dindigul, on 11<sup>th</sup> October 2017.



35. Presented a research Paper entitled "Corrosion Inhibition of mild steel by urea in wellwater" in National Seminar on Modern Trends in Chemistry at Sengamala Thayaar Educational Trust's Womens College, Mannargudi, on 20<sup>th</sup> December 2017.
36. Presented a research Paper entitled "Corrosion resistance Ni-Ti Alloy with Artificial Saliva in Presence of Nurokind tablet" in National Seminar on Modern Trends in Chemistry at Sengamala Thayaar Educational Trust's Womens College, Mannargudi, on 20<sup>th</sup> December 2017.
37. Presented a research Paper entitled "Corrosion behavior of SS18/8 with artificial saliva in presence of Deriphyllin Retard 150 mg and Nimsulide 100 mg tablets" in International Conference on Frontiers in Advanced Materials and their Applications at Bishop Heber College (Autonomous) on 09<sup>th</sup> January 2018.
38. Presented a research Paper entitled "Corrosion Resistance of Carbon Steel in Sodium Chloride Solution by {[2-mercapto-phenylimino] methyl}Benzoic acid" in National Conference on Recent Developments in Chemistry at Jamal Mohamed College, Trichy on 20<sup>th</sup> January 2018.
39. Presented a research Paper entitled "Corrosion Resistance of Ni-Cr Alloy with Artificial Saliva in Presence of Deriphyllin Retard 150 mg and Nimsulide 100 mg tablets" in National Conference on Recent Development in Chemistry at Jamal Mohamed College, Trichy, on 20<sup>th</sup> January 2018.
40. Presented a research Paper entitled "Corrosion behavior of mild steel in wellwater by Anthralinic acid" in A Two Day National Conference on New Vistas in Material Science at J.J. College of Arts and Science, Pudukkottai, on 8<sup>th</sup> & 9<sup>th</sup> March 2018.
41. Presented a research Paper entitled "Corrosion Inhibition of Carbon Steel by Zinc Complex of (1-8-Hydroxy-Quinolin-2yl Methyl) Thiourea in Wellwater" in One Day International Conference on Synthetic Materials for Science and Engineering Applications at M. Kumarasamy College of Engineering, Karur, on 11<sup>th</sup> April 2018.
42. Presented a research Paper entitled "Corrosion Inhibition effect of Benzimidazole on Carbon Steel in Sodium Chloride Solution" in International Conference on Topical Drifts in Nano Science and Environmental Science at Nadar Sarawathi College of Arts and Science, Theni, Tamilnadu, on 20<sup>th</sup> & 21<sup>st</sup> August 2018.
43. Presented a research Paper entitled "Corrosion resistance of Zinc metal o Acid solutions by Dihexyl Sulphide as Inhibitor" in International Conference on Advanced Materials and Nanotechnology at Gonzaga College of Arts and Science for Women, Elathagiri, Krishnagiri, Tamilnadu on 15<sup>th</sup> October 2018.

44. Presented a research Paper entitled “Corrosion inhibition of zinc metal in acid medium by using 2-Ethyl Imidazole” in International Symposium on Smart materials & Workshop on Chemical Vapour Deposition (CVD) at Hindustan Institute of Technology and Science, Chennai, on 30<sup>th</sup> & 31<sup>th</sup> October 2018.
45. Presented a research Paper entitled “Inhibition effect of 2-Mercapto-1-methyl imidazole on the corrosion of zinc metal in 0.5 N sulphuric acid” in National Conference on Advances in Applied Chemistry at St. Joseph College (Autonomous), Tiruchirappalli-02, Tamilnadu on 14<sup>th</sup> December 2018.
46. Presented a research Paper entitled “Inhibition of Mild Steel Corrosion Using Hydrochloric Acid by Heterocyclic Chalcone Derivatives” in National Conference on Advances in Applied Chemistry at St. Joseph College (Autonomous), Tiruchirappalli-02 on 14<sup>th</sup> December 2018.
47. Presented a research Paper entitled “Corrosion Inhibition of Zinc metal in 0.5N hydrochloric acid by using 2-butyl imidazole” in International Conference on Chemical and Environmental Research (ICCER-2018) at Jamal Mohamed College (Autonomous), Tiruchirappalli-02 on 19<sup>th</sup> December 2018.
48. Presented a research Paper entitled “Corrosion Inhibition Effect of Zinc metal in 0.5N HCl solution by using 1,4 - butanethiol” in International Conference on Advanced Materials and their Applications (ICAMA-2018) at V.O.Chidambaram College, Thoothukudi-08 on 27<sup>th</sup> December 2018.
49. Presented a research Paper entitled “Inhibition of Corrosion of Zinc metal in 0.5 N HCl by 2-ethyl-4-methyl imidazole” in International Conference on Recent Trends in Chemistry (ICRTC-2019) at Dr.R.K.Shanmugam College of Arts and Science, Kallakurichi on 10<sup>th</sup> January 2019.
50. Presented a research Paper entitled “Dinonyl sulphide as Corrosion Inhibitor for Zinc metal in 0.5N Hydrochloric acid” in National Conference on Recent Trends in Advanced Materials (RTAM-2019) at PGP College of Arts and Science, Namakkal on 23<sup>rd</sup> January 2019.
51. Presented a research Paper entitled “Corrosion Inhibition of Zinc metal in acid medium by using 2-propyl imidazole” in A state level seminar on Emerging Trends in Chemical Sciences -2K19 at GTN Arts College, Dindigul on 18<sup>th</sup> October 2019.
52. Presented a research Paper entitled “Corrosion Resistance of SS 316L in Artificial Saliva in presence of Nimesulide 100 mg Tablet” in A state level seminar on Emerging Trends in Chemical Sciences -2K19 at GTN Arts College, Dindigul on 18<sup>th</sup> October 2019.

53. Presented a research Paper entitled “Investigation on the inhibition of zinc metal corrosion in acid medium by 1,2 ethanethiol” in the International Conference on Emerging Trends in Chemical Sciences (ICETCS-2019) organized by Department of Chemistry, Arulmigu Palaniandavar Arts College for Women (Autonomous) on 6<sup>th</sup> September 2019.
54. Presented a research Paper entitled “Corrosion Resistance effect of 1,6-Hexanediol on zinc metal in 0.5N Hydrochloric acid” in the 5<sup>th</sup> International Conference on Chemical and Environmental Research (ICCER-2020) organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 on 8<sup>th</sup> January 2020.
55. Presented a Research Paper entitled “Corrosion Resistance effect of Glutaric acid on Carbon Steel in Sodium Chloride Solution” in the e-National Conference on Advancements in Science and Humanities [e-NCASH-2020] Organized by the Department of Science and Humanities, Kings College of Engineering, Pudukottai on 13<sup>th</sup> July 2020.
56. Presented a Research Paper entitled “Corrosion Resistance Effect Diethyl Sulphide of Zinc Metal in Acid Medium ” in the One Day National e- Conference on Emerging Trends in Physical Sciences [NCETPS-2020] Organized by the Department of Physics in Collaboration with IQAC, RAYAT SHIKSHAN SANSTHA’S Arts, Science and Commerce College Ramanandnagar (Burli), Kolhapur on 22<sup>nd</sup> July 2020.
57. Presented a Research Paper entitled “Electrochemical Studies of Mild Steel in Sodium Chloride Solution by Benzimidazole Inhibitor” in the International Virtual Conference on Advanced Materials for Sustainable Development (ICAMSD – 2020) Organized by the Department of Chemistry, Bannari Amman Institute of Technology, Sathhyamangalam, Erode, from 07.08.2020 to 08.08.2020.
58. Presented a Research Paper entitled “Corrosion Inhibition of Zinc Metal in 0.5 N HCl Acid Medium by Dimethyl Sulphide (DMS)” in the Two Day International Virtual Conference on Current Trends in Advanced Chemistry (CTAC – 2020) Organized by the Department of Chemistry, Saranathan College of Engineering, Tiruchirappalli-12, from 17.08.2020 to 18.08.2020.
59. Presented a Research Paper entitled “Corrosion Resistance of Carbon Steel in Well water as a Medium by Anthralinic Acid” in the International Virtual Conference on Advances in Chemical Sciences -2020 (IVCACS – 2020) Organized by the Department of Chemistry, Easwari Engineering College, Chennai-89, from 13.08.2020 to 14.08.2020.
60. Presented a Research Paper entitled “Electrochemical Studies and Surface Morphology of Zinc Metal in 0.5 N HCl by Dimethyl Sulphide” in the International Web Conference on Advanced Materials Science and Engineering (ICAMSE – 2020) Organized by the Department of Physics, Bannari Amman Institute of Technology, Sathyamangalam, Erode from 11.09.2020 to 12.09.2020.

61. Presented a Research Paper entitled “Electrochemical Studies on Zinc metal in 0.5N HCl by using Dibutyl sulphide as inhibitor” in the International Virtual Conference on Recent Trends in Energy Materials (INCERTM – 2020) Organized by the Department of Physics, Alagappa University, Karaikudi from 09.09.2020 to 11.09.2020.
62. Presented a Research Paper entitled “Corrosion Resistance of Carbon Steel in Simulated Concrete Pore Solution by Using Benzoic Acid” in Two-Day International Virtual Conference on “Current Trends in Advanced Chemistry (CTAC - 2021) Organized by the Department of Chemistry, Saranathan College of Engineering, Tiruchirappalli from 20.09.2021 to 21.09.2021.
63. Presented a Research Paper entitled “Corrosion resistance of carbon steel in simulated concrete pore solution by using citric acid inhibitors” in International Conference on “Recent Trends in Material Science (ICRTMS – 2K22) Organized by the Department of Chemistry, Arasu College of Arts and Science for Women, Karur, Tamilnadu on 18.03.2022.
64. Presented a Research Paper entitled “Electrochemical behaviour of carbon steel in sodium chloride solution by using thiophenol derivative inhibitor” in the AICTE Sponsored International Conference on “Newer Engineering Concepts and Technology (ICONNECT – 2K22) Organized by the K. Ramakrishnan College of Technology, Tiruchirappalli, Tamilnadu from 28.04.2022 to 29.04.2022.
65. Presented a Research Paper entitled “Corrosion Behaviour of Carbon Steel in Sea Water using Benzoic Acid Inhibitor” in the 7<sup>th</sup> International Conference on Innovations in Chemical and Environmental Research (ICICER-2022) Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu on 25.05.2022.
66. Presented a Research Paper entitled “Anti-corrosion study of carbon steel in hydrochloric acid solution by green inhibitor” in the International Conference on “Recent Advancements in Therapeutics (ICRAT – 2022) Organized by the Department of Bio-Chemistry, Srimati Indira Gandhi College, Tiruchirappalli, Tamilnadu on 17.08.2022.
67. Presented a Research Paper entitled “Study of Presence of Insecticides and Pesticides in Various Fruits, Vegetables and Beverages” in the National conference on Innovation in Nanoresearch (NCINR 2022) Jointly Organized by the PG and Research Department of Physics and PG Department of Chemistry, Jairams Arts and Science College, Karur, Tamilnadu on 21.09.2022.
68. Presented a research paper entitled Evaluation of corrosion inhibition effect of carbon steel in hydrochloric acid solution by using aqueous extract of *carrisa carandas* plant leaves inhibitor in the Conference on Quantum Materials, Nanoscience & Nanotechnology (CONQUEST 2022), organized by Department of Physics, Bannari Amman Institute of Technology, Erode – 638401 Tamilnadu, India from 04-11-2022 to 05-11-2022.
69. Presented a research paper entitled Adsorption and corrosion studies of the aqueous extract of *Carrisa caandas linn* plant leaves on carbon steel in hydrochloric acid in the National

Workshop on Corrosion Science and Corrosion Control, organized by Arasu College of Arts and Science for Women, Karur in Collaboration with National Corrosion Council of India Karaikudi & CSIR-Central Electrochemical Research Institute, Karaikudi on 21-12-2022.

70. Presented a research paper entitled Adsorption and evaluation of corrosion studies of the aqueous extract of *Trichosanthes cucumerina linn* plant leaves on carbon steel in hydrochloric acid in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
71. Presented a research paper entitled Anti-Corrosive properties of 2-(Benzylidene-Amino)-Benzenethiol in mild steel immersed under sulphuric acid in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
72. Presented a research paper entitled Study of corrosion resistance of zinc metal by using *Annona Squamosa* plant leaves in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
73. Presented a research paper entitled Inhibitory Efficacy of Bioactive Compounds Extracted from Areca catechu L. nut on Matrix Metalloproteinases an in-Silico Study in the International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), organized by Postgraduate and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020 in association with Indian Spectrophysics Association (ISPA), Chennai on 10-01-2023.
74. Presented a research paper entitled Adsorption and corrosion studies of the aqueous extract of *Coccinia cordifolia* plant leaves on carbon steel in hydrochloric acid in International Conference Proceedings on Expanding Frontiers in Chemistry (EFC 23), organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur – 625 514, Madurai District Tamil Nadu, India from 15-02-2023 to 16-02-2023.
75. Presented a research paper entitled In vitro and in silico studies on the anti-inflammatory properties of arecoline from Areca catechu L. nutin International Conference on Expanding Frontiers in Chemistry (EFC 23), Organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur – 625 514, Madurai District Tamil Nadu, India from 15-02-2023 to 16-02-2023.
76. Presented a research paper entitled In vitro and in silico studies on the anti-inflammatory properties of arecoline in the International Conference Influence of Chemistry in the Transition towards Green Economy Organized by PG Department of Chemistry, PSGR

Krishnammal College for Women (Autonomous), Coimbatore – 625 514, Tamil Nadu, India from 01-03-2023 to 02-03-2023.

77. Presented a research paper entitled Adsorption, Electrochemical and Surface morphological studies of carbon steel corrosion by 2-(Benzylidene-Amino)-Benzenethiol inhibitor in sodium chloride solution in the Two days International Conference on Materials and Biological Researches (ICMBR – 2023) Organized by PG Department of Chemistry with Internal Quality Assurance Cell, Dr. R. K.S College of Arts and Science, Kallakurichi – 606 213, Tamil Nadu, India from 02-03-2023 to 03-03-2023.
78. Presented a research paper entitled Corrosion inhibition studies of copper alloy in sulphuric acid using green inhibitor in the National Conference on Chemical, Biological and Medical Sciences (NCCBMS-23) Organized by PG and Research Department of Biochemistry Thanthai Periyar Government Arts and Science College (Autonomous) – 620 023, Tamil Nadu, India on 07-03-2023.
79. Presented a research paper entitled Preparative HPLC of Arecoline and comparison of Antibacterial activity in different solvent extracts of Areca Catechul nut in the National Level Conference on Current Scenario in Materials Science (CSMS - 2023) Organized by Department of Chemistry, Selvamm Arts and Science College (Autonomous), Namakkal, Tamil Nadu, India on 21-03-2023.

## **25. Details of Seminars / Conferences / Workshops Participated**

1. Participated in the seminar on “Advanced Topics in Chemistry” at Jamal Mohamed College, Trichy during 13<sup>th</sup> & 14<sup>th</sup> March 2007.
2. Participated in the workshop on “Micro-Organic Reaction and Technology for Process Intensification” at NIT, Trichy during 11<sup>th</sup> January 2008.
3. Participated in the National Level workshop on “Application of Radiation and Radioisotopes” at St. Joseph’s College Trichy during 15<sup>th</sup> & 16<sup>th</sup> February 2008.
4. Participated in the National Level seminar on “Recent Trends in Physical Organic Chemistry” at National College Trichy during 11<sup>th</sup> & 12<sup>th</sup> February 2008.
5. Participated a One Day State level Symphoria-19 Organized by PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli on 13<sup>th</sup> February 2019.
6. Attended the Faculty Development Program on Requirements of Effective Question Paper Setting and Efficient Evaluation Process Sponsored by Anna University of Technology, Madurai and organized by the Raja College of Engineering and Technology, Madurai on 11 March, 2011.
7. Participated in a Two-Week ISTE Workshop on Introduction to Research Methodologies Conducted by Indian Institute of Technology, Bombay and Organized by RVS College of Engineering and Technology, Coimbatore from 25<sup>th</sup> June to 04<sup>th</sup> July, 2012.

8. Participated in a One Day Workshop on Fire and Safety Training Program Conducted by Ratnaa Sales Corporation, Organized by RVS College of Engineering and Technology, Dindigul on 14<sup>th</sup> March 2014.
9. Participated in a One Day Workshop on Latex for Academics and Researchers Program Organized by Ratnavel Subramaniam College of Engineering and Technology, Dindigul on 21<sup>st</sup> February 2015.
10. Participated in a One Day Workshop on “Here is money where is Ideas” Program Organized by Ratnavel Subramaniam College of Engineering and Technology, Dindigul on 24<sup>th</sup> July 2015.
11. Participated in a One Day Workshop on “Hands on Training Using MATLAB” Program Organized by Ratnavel Subramaniam College of Engineering and Technology, Dindigul on 04<sup>th</sup> September 2015.
12. Participated in a one Day National Symposium on “Recent Developments in Chemistry” at Madurai Kamaraj University, Madurai during 4<sup>th</sup> June 2016.
13. Participated a One Day Workshop on ‘The Role of a Teacher in the present Scenario’ Organized by the Internal Quality Assurance cell of Jamal Mohamed College (Autonomous), Tiruchirappalli on 10<sup>th</sup> December 2016.
14. Participated a One Day State level Symphoria-17 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 31<sup>th</sup> January 2017.
15. Participated in Three Days NLP- Based Faculty Empowerment Programme Organized by the Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 during 17<sup>th</sup> , 19<sup>th</sup> & 20<sup>th</sup> June 2017.
16. Participated a One Day State level Symphoria-18 Organized by PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli on 20<sup>th</sup> February 2018.
17. Participated A One Day National Seminar on Solid State Physics and Its Applications (NaSSSPA-2018) Organized by PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 28<sup>th</sup> February 2018.
18. Participated a One Day Orientation Programme on Soft Skills Development Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 22<sup>nd</sup> June 2018.
19. Participated a One Day Workshop on Writing Winnable Project Proposals Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 23<sup>th</sup> June 2018.
20. Participated a Workshop on Computer based Science Experiments Organized by PG and Research Department of Physics, National College (Autonomous), Tiruchirappalli on 30<sup>th</sup>

June 2018.

21. Participated a Seminar on “The MHRD Draft proposal for Higher Education Commission of India (Repeal of UGC Act, 1956) Act 2018” Organized by Aided College Teachers Association (ACTA), Tamilnadu, held at Jamal Mohamed College (Autonomous), Tiruchirappalli on 14<sup>th</sup> July 2018.
22. Participated a “International Symposium on Advanced Functional Materials [ISAFM 2018]” Organized by the PG & Research Department of Chemistry, Mar Ivanios College (Autonomous), Thiruvananthapuram, Kerala on 12<sup>th</sup> October 2018.
23. Participated a “One Day State Level Seminar on Quality Control in Chemistry [QCC-2018]” Organized by the PG & Research Department of Chemistry, C. Abdul Hakeem College (Autonomous), Melvisaram, Vellore on 05<sup>th</sup> December 2018.
24. Participated a “UGC CPE Sponsored Two Day Workshop on Professional Development for Academic Leadership in Curriculum Design Organized by Curriculum Development Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 18<sup>th</sup> and 19<sup>th</sup> January 2019.
25. Participated a “NAAC Sponsored One Day National Seminar on Challenges and Changes in the Evaluation System Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 26<sup>th</sup> February 2019.
26. Participated a “Staff Enrichment Programme on Ownership Culture Organized by the Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 14<sup>th</sup> June 2019.
27. Participated a “Workshop on Edmodo ICT Tool Organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 04<sup>th</sup> February 2020.
28. Participated a “Orientation Programme on MOOC’S AND e-Learning Organized by Department of Library, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 29<sup>th</sup> January 2020.
29. Acted as a “Organizing committee member in the State Level Intercollegiate Extravaganza “JAM CHEM FEST-2K20 Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 28<sup>th</sup> February 2020.
30. Participated a “UGC Autonomy Grant Sponsored One Day National Seminar on Recent Advances in Chemistry – RAC 2020, Organized by Department of Chemistry, GTN Arts College (Autonomous), Dindigul-05, Tamilnadu on 13<sup>th</sup> March 2020.
31. Participated in the Faculty Development Programme on National Webinar entitled Role of Teachers in Technology Driven Higher Education Organized by Guru Angad Dev Teaching



Learning Centre SGTB Kasla College, University of Delhi under the Pandit Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on 25.04.2020.

32. Participated in the Faculty Development Programme on National Webinar entitled Towards Excellence in Higher Education in India in the 21<sup>st</sup> Century: Challenges and Opportunities Organized by Guru Angad Dev Teaching Learning Centre SGTB Kasla College, University of Delhi under the Pandit Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on 29.04.2020.
33. Participated in One Day online workshop for Enhancing Research Communication Skills through Science Direct and Mendeley Organized by Internal Quality Assurance Cell (IQAC) and School of Education (SoE), Faculty of Education, Dayalbagh Educational Institute, Dayalbagh Agra in Collaboration with Elsevier on 03.05.2020.
34. Completed a Two Days online Faculty Development Programme (FDP) on Project Proposals for Funding Agencies (UGC Stride & ICSSR Impress): Preparation and Submission Protocol Organized by Patrician College Research Committee, Patrician College of Arts and Science, Chennai on 16.05.2020 and 17.05.2020.
35. Participated in the Faculty Development Programme on National Webinar entitled Challenges and Opportunities before Indian Higher Education due to Covid-19 Organized by Guru Angad Dev Teaching Learning Centre SGTB Kasla College, University of Delhi under the Pandit Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD held on 02.05.2020.
36. Participated in the Employability Enhancement Webinar Series titled Patent Professional – as a Career Organized by Intellectual Property Rights Cell, Bharathidasan University, Tiruchirappalli-24 on 18.05.2020.
37. Participated in the National Webinar on Taking Research Forward During the Pandemic Organized by Loyola Institute of Frontier Energy (LIFE), Loyola College (Autonomous), Chennai on 20.05.2020.
38. Participated in the Webinar on Modern Teaching Techniques Organized by Dr. Zakir Hussain College, Ilyangudi-02, Sivagangai District, Tamilnadu and Oneyes Technologies, Chennai on 17.05.2020.
39. Participated in the One Day IQAC Webinar on Assessment and Accreditation as a measure of Internal Quality as HEIs Organized by Loganantha Narayanasamy Government College (Autonomous), Ponneri, Thiruvallur District, Tamilnadu on 19.05.2020.
40. Participated in the International Level Covid-19 Pandemic Webinar on Functional Novel Materials for Electrochemical Sensors and Energy Storage Devices Organized by Thiagaraja

College, Madurai and MING CHI University of Technology, New Taipei City, Taiwan on 15.05.2020.

41. Completed the "COVID-19 Awareness Quiz" conducted by IQAC in collaboration with Departments of Biotechnology and Zoology, St. Joseph's College, Irinjalakuda, Kerala during April 2020.
42. Completed Three Days online course on Basic Principles of Spectroscopy organized by Department of Chemistry, AVS College, Salem, Tamilnadu from 17.04.2020 to 19.04.2020.
43. Attended the Sessions of the Webinar on Chemistry an Ocean for Career and Commercialization organized by Chemistry Department of Government Science College, Gandhi Nagar, Gujarat from 14.05.2020 to 16.05.2020.
44. Received a Certificate of Commitment for demonstrating commitment to promote safety against covid-19 and made a pledge to include best practices on prevention of corona virus disease as specified by World Health Organization (WHO).
45. Completed the course on Let's break the chain of covid-19 infection as part of the MBRU Community Immunity Ambassador program organized by the Mohammed Bin Rashid University of Medical and Health Sciences on 05.04.2020.
46. Completed the online course on How to become an online Teacher organized by Amity University on 21.04.2020.
47. Received a Certificate of Appreciation as Covid-19 Combatant organized by the School of Allied Health Sciences, Vinayaka Missions Research Foundation, Salem on 10.04.2020.
48. Received a Certificate of Appreciation as Covid-19 Pandemic General Awareness Quiz organized by the Department of Research, Innovations, Sponsored Projects and Entrepreneurship, Chandigarh Group of Colleges, Landran, Mohali on 10.04.2020.
49. Received a Certificate of Stay at Home, Save Lives pledge by Ministry of Electronics and Information Technology, Government of India on 28.03.2020.
50. Completed Two Days online course on House Hold Electrical Devices and Appliances organized by Department of Physics, AVS College, Salem, Tamilnadu from 20.04.2020 to 21.04.2020.
51. Attended a National level Webinar on Effective Presentation Skills using ICT Tools jointly organized by Knowledge Publications and Chemtoons You Tube Channel on 26.04.2020.
52. Participated in online Covid-19 General Awareness Program Organized by the Internal Quality Assurance Cell (IQAC) of Punyashlok Akilyadevi Holkar Solapur University, Solapur during April 2020.

53. Attended a National level Webinar on Google Classroom jointly organized by Knowledge Publications and Chemtoons You Tube Channel on 18.04.2020.
54. Completed Two Days online Workshop on Self Development organized by Department of Business Administration, Sri Sarada Niketan College of Science for Women, Karur, Tamilnadu from 20.04.2020 to 21.04.2020.
55. Completed Three Days online Assessment on Improve your Skills organized by Department of Mathematics (SF), Virudhu Nagar Hindu Nadar's Senthikumara Nadar College (Autonomous), Virudhunagar, Tamilnadu from 27.04.2020 to 29.04.2020.
56. Attended an online lecture on A virtual visit to the home of electrons Organized by Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 02.05.2020.
57. Completed Two Days online course on Elemental Arts: Evolution of Modern Periodic Table" organized by Department of Science and Humanities in Chemistry Domain, Sri Krishna College of Engineering and Technology, Coimbatore-08 Tamilnadu from 01.05.2020 to 02.05.2020.
58. Attended a Edspire Webinar on Managing Stress and Emotional & Mental Well-being during the Covid-19 Crisis for Educators organized by VET Institute of Arts and Science College, Erode-12, Tamilnadu on 27.04.2020.
59. Attended the Webinar on Cyber Security – 2020 Organized by GTC Global Service India PVT Ltd, Computer Society of India, Kancheepuram Chapter, Tamilnadu on 29.04.2020.
60. Attended an International FDP on "Develop the ability to write Research Proposal an exclusive Webinar for Research scholars and Faculty conducted by AIMIT, Bangalore, Karnataka on 24.04.2020.
61. Attended an Online FDP on "Remarkable Structural, Magnetic and Microwave Adsorption Properties of Rare Earth-Doped Mn-Cu Ferrites & In-situ characterization of Materials at Elevated Temperatures Organized by Department of Physics, Kristu Jayanti College (Autonomous), Bangalore, Karnataka on 04.05.2020.
62. Participated an online Covid-19 General Awareness E-Quiz Program Organized by NSS unit under the initiative of National Service Scheme Cell, Karnataka State, Akkamahadevi Women's University, Karnataka on 08.05.2020.

63. Participated in the Quiz on Covid-19 Awareness Programme event Organized by Thiagarajar College of Engineering, Madurai and Unnat Bharath Abhiyan, Government of India on 08.05.2020.
64. Participated the Webinar on Crystallography and its Applications Organized by Department of Science and Humanities, Er.Perumal Manimekalai College of Engineering, Hosur on 08.05.2020.
65. Participated in the R training Programme Organized at Shri Krishnaswamy College for Women with Spoken Tutorial IIT, Bombay on 04.05.2020.
66. Participated in the Covid-19 General Awareness Quiz Organized by the Institution Innovation Council Cell, St.Anne's College of Engineering and Technology, Panruti, Tamilnadu on 09.05.2020.
67. Participated the Webinar on Nanomaterials for Energy Conversion and Storage Organized by Department of Physics, SNS College of Technology, Coimbatore, Tamilnadu on 07.05.2020.
68. Completed Online Covid-19 Awareness Quiz Organized by PG and Research Department of Commerce, Vivekanandha College of Arts and Science for Women (Autonomous), Tiruchengode, Namakkal, Tamilnadu on 09.05.2020.
69. Participated in the National level Webinar on Principle and Applications of Electronic Applications Organized by Department of Chemistry, Annai College of Arts and Science, Kumbakonam, Tamilnadu on 07.05.2020.
70. Participated in the Virtual Conference on Materials for Energy Harvesting and Catalysis Organized by the Tata Institute of Fundamental Research (TIFR) Mumbai and Indian Institute of Science Education and Research (IISER), Kolkata from 01.05.2020 to 03.05.2020.
71. Participated in the E-Quiz on Chemistry in Everyday life Organized by the Research Department of Chemistry, The Standard Fire Works Rajaratnam College for Women (Autonomous), Sivakasi on 12.05.2020.
72. Participated in the Live Webinar on Assessment and Evaluation in Outcome Based Education Hosted by the Office of Controller of Examination, GTN Arts College (Autonomous), Dindigul-05 on 11.05.2020.
73. Participated in the Webinar on Impact of Covid on Economy and Management of Finance during this period Organized by the IQAC and School of Commerce, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai on 04.05.2020.

74. Participated in the Webinar on Micro and Nanotechnology and its Applications Organized by Department of Physics, GTN Arts College (Autonomous), Dindigul-05 on 14.05.2020.
75. Participated in the International Webinar on Human Trafficking and Covid-19 Organized by Sathyabama Institute of Science and Technology (Deemed to be University), School of Law, Chennai in association with International Justice Mission on 14.05.2020.
76. Completed the National level Online Quiz on Macromolecules and Surfactants Organized by Department of Chemistry and Research Centre, Nanjil Catholic College of Arts and Science, Kaliyakkavilai, Kanniyakumari, on 22.05.2020.
77. Participated in the Online Quiz on Green Chemistry Organized by Department of Chemistry, Holy Cross College (Autonomous), Nagarcoil – 629 004 on 23.05.2020.
78. Participated in the Webinar on Metal Complexes to Metal Nanoparticles for Efficient Catalysis Organized by School of Chemical and Biotechnology, SASTRA Deemed to be University, Thanjavur on 28.05.2020.
79. Participated in the C and C++ Training Organized by Jamal Mohamed College (Autonomous), Tiruchirappalli with Course Material Provided by Spoken Tutorial Project IIT Bombay on 27.05.2020.
80. Participated in the Two Days National Webinar on ICT Tools for College Teachers Organized by Internal Quality Assurance Cell (IQAC), Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee, Maharashtra, India from 28.05.2020 to 29.05.2020.
81. Participated in the IPR Webinar on Patent Filing and Prosecution Organized by IPR Cell and MHRDs Institution Innovation Cell, Kumaraguru College of Technology, Coimbatore on 01.06.2020.
82. Attended an online Faculty Development Program on Recent Trends in Material Frontiers Organized by Department of Science, St. Joseph College of Engineering, Chennai from 29.05.2020 to 30.05.2020.
83. Participated in the Virtual International Webinar on Smart Topics in Chemistry Organized by PG and Research Department of Chemistry, Government Arts College, Trichy – 22 from 01.06.2020 to 02.06.2020.
84. Participated in the International Webinar on Materials for Energy, Environment and Healthcare Applications Organized by Department of Chemistry, Gandhigram Rural Institute (Deemed to be University), Dindigul from 21.05.2020 to 22.05.2020.

85. Participated in the Online Quiz Test on Fundamentals of Rechargeable Batteries Conducted by Department of Chemistry, Rajapalayam Raju's College, Rajapalayam – 626117 on 03.06.2020.
86. Participated in the One Day Online Webinar Programme on Electron Spin Resonance Spectroscopy Organized by the Department of Chemistry, Gnanamani College of Technology, Namakkal on 03.06.2020.
87. Participated in the Webinar on Assembled Advanced Organic Materials Organized by the PG and Research Department of Chemistry, National College (Autonomous), Tiruchirappalli on 03.06.2020.
88. Attended the Chemistry Live Webinar on Nano structured Metal Oxide and its hybrids for Environmental and Biological Applications Organized by the Department of Chemistry, PSNA College of Engineering and Technology, Dindigul on 04.06.2020.
89. Participated the National Level Live FDP on Future Examinations: Blooms Taxonomy and Multiple Assessment Tools Conducted by GTN Arts College (Autonomous), Dindigul-05 on 08.06.2020.
90. Participated in One Week Faculty Development Programme on PYTHON and LaTeX through MOOC's Spoken Tutorial Project – IIT, Bombay Conducted by Vellalar College for Women (Autonomous), Erode from 23.04.2020 to 29.04.2020.
91. Participated in One Week Online Faculty Development Programme on Materials: Recent Trends and Engineering Applications Conducted by Gokaraju Rangaraju Institute of Engineering and Technology (Autonomous), from 02.06.2020 to 07.06.2020.
92. Attended the International Webinar Recent Advances in Materials and Nanotechnology Science Organized by the Department of Physics, Bannari Amman Institute of Technology, Erode from 04.06.2020 to 06.06.2020.
93. Completed Two Days Online Course on Recalling the Foundations and Frontiers of Thermodynamics Organized by the PG and Research Department of Chemistry, Arignar Anna Government Arts College, Cheyyar from 03.06.2020 to 04.06.2020.
94. Participated in the Four Days Online Faculty Development Programme on Recent Trends in Physics Organized by the Department of Physics, Holy Cross College (Autonomous), Nagercoil from 03.06.2020 to 06.06.2020.
95. Participated in the Five Days Online Faculty Development Programme on Advanced Materials and their Applications Organized by the PG and Research Department of Chemistry, Auxilium College, Vellore from 02.06.2020 to 06.06.2020.

96. Participated in the National Innovative Webinar on Social Innovation and Change Management Organized by the Institution Innovation Council (IIC), Holy Cross College (Autonomous), Trichy on 05.06.2020.
97. Participated in the International Yoga Day Webinar – Yoga for Immunity as Food as Medicine Organized by Rotaract Club of Anna University of RID 3000 on 21.06.2020.
98. Attended a One Week Faculty Development Programme on Advanced Materials Research Organized by Bharat Institute of Engineering and Technology and Indian Ceramic Society from 15.06.2020 to 19.06.2020.
99. Participated in the International e-Conference on Advanced Functional Materials and Optoelectronic Devices (ICAFMOD-2020) Organized by Centre of Renewable Energy, Institute of Physical Sciences for Study and Research, VBS Purvanchal University, Jaunpur from 13.06.2020 to 15.06.2020.
100. Participated in the One Week Faculty Development Programme on Molecules and Beyond the molecules Organized by Department of Humanities and Basic Sciences, Godavari Institute of Engineering and Technology (Autonomous), Rajamahendravaram, Andra Pradesh from 15.06.2020 to 19.06.2020.
101. Participated in A Two Day Faculty Development Program on Digital Classroom conducted under DBT Star College Scheme by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli from 23.06.2020 to 24.06.2020.
102. Participated in the International Virtual Seminar on Materials and their Applications Organized by the Department of Chemistry and Physics, SSM Institute of Engineering and Technology, Dindigul from 18.06.2020 to 19.06.2020.
103. Participated in the Webinar on Oxygen Electro catalysis: The Holy Grail of Energy Conversion and Storage Organized by the Chennai Institute of Technology, Chennai on 29.06.2020.
104. Participated in the International Level Webinar on Carbon Based Nanocomposites and their Applications with reference to Biomedical Applications Organized by the Department of Science and Humanities, Hindustan College of Engineering and Technology, Coimbatore on 30.06.2020.
105. Participated in the International Virtual Conference on Innovative Research in Chemical Sciences (IRCS – 2020) Organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 29.06.2020 to 30.06.2020.

106. Participated in an Online Outreach Programme on Role of Meteorites in the Solar System under DBT Star College Scheme in Commemoration of the World Asteroid Day jointly Organized by the PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 and Tamilnadu Science Forum Trichy- Manaharam on 30.06.2020.
107. Participated the National Level Webinar on Ingredients for Success Organized by the Department of Science and Humanities, Hindustan College of Engineering and Technology, Coimbatore on 08.07.2020.
108. Participated the National Level Webinar on Economic Challenges for State Governments During Post Covid 19 Era Organized by School of Humanities, GuruNanak College, Chennai on 09.07.2020.
109. Attended International Online Faculty Development Program on Advancement in Applied Chemistry (AAC 2020) Organized by Department of Science, St. Josph's College of Engineering, Chennai from 06.07.2020 to 08.07.2020.
110. Participated in the 2<sup>nd</sup> International Conference on Crystal Engineering: From Molecule to Crystal A virtual meeting organized by Crystal Growth Design from 19.06.2020 to 20.06.2020.
111. Participated in the International Virtual Conference on High Performance Materials for Energy, Environment and Healthcare in the Digital Era Organized by Centre for Materials Technology, School of Advanced Sciences, Vellore Institute of Technology, Vellore from 30.06.2020 to 01.07.2020.
112. Participated in the Five Days Virtual Workshop on Analytical Instrumentation Organized by the Department of Chemistry, B.S Abdul Rahman Crescent Institute of Science and Technology, Chennai from 05.07.2020 to 09.07.2020.
113. Participated in the Two Days International Webinar on Research Evolution towards Current Scenario Organized by the PG and Department of Chemistry, Periyar EVR College (Autonomous), Tiruchirappalli-23 from 13.07.2020 to 14.07.2020.
114. Participated in the Webinar on National Educational Policy -2020 Organized by the PG and Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 on 08.08.2020.
115. Attended the Chemistry Live Webinar on Corroles: Vitamin B12 Derivatives as Modern Electronic Materials Organized by the Department of Chemistry, PSNA College of Engineering and Technology, Dindigul on 19.08.2020.



116. Participated in the International Virtual Conference on Super capacitors and Batteries for future Avenues (ICSBFA-2020) Organized by the Bharathidasan University, Tiruchirappalli-24, India from 08.09.2020 to 09.09.2020.
117. Participated in the Faculty Development Programme on E-Content Development Organized by the Internal Quality Assurance Cell (IQAC) of Jamal Mohamed College (Autonomous), Tiruchirappalli-20 from 30.06.2020 to 04.07.2020.
118. Participated in the Webinar on Best Practices in Acquiring Scholarly Knowledge Organized by the Department of Library and Internal Quality Assurance Cell (IQAC) Jamal Mohamed College (Autonomous), Tiruchirappalli-20 on 16.08.2020.
119. Attended an International Online Faculty Development Programme on “Frontiers in Chemistry (FC-2020)” Organized by Department of Science, St. Joseph College of Engineering, Chennai -19 from 16.09.2020 to 18.09.2020.
120. Attended a National Virtual Symposium on “Recent Advances in Energy Materials (RAEM - 2020)” Organized by Department of Physical Sciences and Chemical Sciences, P.D. Patel Institute of Applied Sciences, Charotar University of Science and Technology, Changa, Gujarat from 16.12.2020 to 18.12.2020.
121. Participated in a Faculty Development Programme on “Advances in Nanomaterials & Single crystals on practical device applications “ Organized by Department of Physics, Adikavi Nannaya University, Rajamahendravaram, on 3<sup>rd</sup> February 2021 through virtual platform.
122. Participated in a state level virtual workshop on “CAS Application Submission Requirements“ Organized by Organized by Association of University Teachers (Regd), Tamil Nadu Joint Action Council (JAC) of Pachaiyappa’s Trust Board Colleges, on 3<sup>rd</sup> June 2021 through virtual platform.
123. Participated in the National Webinar on “Recent Developments for Chemistry Teachers“Organized by Organized by the Department of Applied Chemistry, Karunya Deemed University, Coimbatore on 5<sup>th</sup> June 2021 through virtual platform.
124. Participated in the two Day National level Technical online workshop on “Intellectual Property Rights “Organized by the Tamilnadu State Council for Science and Technology, Government of Tamilnadu, Chennai and Research and Development Cell, GTN Arts College (Autonomous), Dindigul on 21<sup>st</sup> - 22<sup>nd</sup> June 2021.
125. Participated an online workshop on “Scanning Electron Microscopy; Techniques and its Applications “Organized by North East Centre for Biological Sciences and Healthcare Engineering, Indian Institute of Technology Guwahati, Assam in collaboration with Zeiss India, with support of Department of Biotechnology, Govt. of India as part of Azadi ka Amrit Mahotsav. on 15<sup>th</sup> - 16<sup>th</sup> June 2021.

126. Participated in a Webinar on “Drug Delivery “Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 on 06<sup>th</sup> July 2021.
127. Participated in the Online Faculty Enrichment Programme “Organized by the Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 from 21-06-2021 to 25-06-2021.
128. Participated in the National Virtual Conference on Recent Advances in Material Science (NVCRAMS 2021) “Conducted by the Department of Physics and Chemistry, St. Peter’s Institute of Higher Education and Research from 07.10.2021 to 08.10.2021.
129. Participated in the Virtual International Conference on Functional Materials and its Application aspects (ICFMAA 2021) “Organized by the Department of Physics, Saveetha School of Engineering, Chennai from 29.10.2021 to 30.10.2021.
130. Participated in the DST-FIST Sponsored Two Days Virtual Workshop on Scanning Electron Microscope “Organized by the SIT Research Forum, Sethu Institute of Technology, Madurai from 05.10.2021 to 06.10.2021.
131. Participated in the National Webinar on Microplastic Pollution: Role of Educators and Researchers" conducted by Bharat Institute of Engineering and Technology (BIET), Centre for Research in Education and Social Integration Human Resources Development and Indian Ceramic Society, Hyderabad Centre on 06.08.2022.
132. Participated in the Faculty Development Programme on Exordium to MOOCS & SWAYAM organized by PG & Research Department of Mathematics (Under DBT Star College Scheme) and Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 16-12-2022.
133. Participated in the Faculty Development Programme on Prevalence of Fluoride and its Optical Detection organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli under DBT Star College Scheme on 24-01-2023.
134. Participated in the Faculty Development Programme on Preparation of Winning Research Proposal organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli under DBT Star College Scheme on 08-02-2023.

## **26. Acted as a Resource Person / Chair Person**

1. Acted as a Resource Person in a National Webinar on Role of reagents in Organic Synthesis and Role of Chemists during Pandemic Period organized by Department of Chemistry, Sakthi College of Arts and Science for Women, Oddanchathram on 21-05-2021.
2. Acted as a Resource Person in a DBT Star College Scheme Proposal meeting conducted by Department of Chemistry, GTN Arts College (Autonomous), Dindigul-05 on 28-05-2021.
3. Acted as a Chair Person in International Webinar on “Recent Advances in Material Science Technology” in collaboration with International Journal of Material Protection organized by Department of Chemistry, St. Antony’s College of Arts and Science for Women, Thamaraiyadi, Dindigul on 21-10-2021.
4. Acted as a Resource Person and delivered an invited talk on Chemistry in our lives in

National Webinar on “Recent Advances in Chemistry – RAC 2021” organized by Department of Chemistry, Sudharsan College of Arts and Science Pudukottai on 06-11-2021.

5. Acted as a Resource Person and delivered an invited lecture on the title of chemical structures and their interpretation using Chemdraw software” organized by Association of PG & Research Department of Chemistry, Government Arts College, Trichy- 22 on 22-12-2021.
6. Acted as a Resource Person and delivered an invited talk on Chemical and Electrochemical study of corrosion inhibitors – An overview in a Two Day webinar on Novel Trends in Chemistry” organized by the PG & Research Department of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam from 04-03-2022 to 05-03-2022.
7. Acted as a Resource Person and delivered an invited talk on Chemical structures using Chemdraw in a Workshop on Analytical Tools Chemical Research” organized by the PG & Research Department of Chemistry, Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli on 24-03-2022.
8. Acted as a Resource Person and delivered an invited talk on Corrosion resistance of metals by inhibitors in a One day state level seminar” organized by the Department of Chemistry & IQAC, Sacred Heart College of Arts and Science, Dindigul on 28-03-2022.
9. Acted as a Resource Person in the Training Programme on Manufacturing Household Products (Entrepreneurial Development Program)” at Tamilnadu Urban Habitat Development Board, Periyar Nagar, Nagamangalam Panchayat organized by the PG and Research Department of Social Work in Collaboration with Unnat Bharat Abhiyan Cell, Jamal Mohamed College and Nal Ullangal Trust, Trichy on 18-12-2021.
10. Acted as a Resource Person and delivered a lecture at Student Development Programme on Computational Chemistry on "Basic Features, Tools and Interpretation of Chemical Structures using ChemDraw Software" organized by PG and Research Department of Chemistry, Vivekananda College, Tiruvedakam West 625 234 on 21" July 2022 under DBT Star College Scheme.
11. Acted as a Resource Person and delivered a guest lecture talk on "Corrosion resistivity of metals and alloys by inhibitors" organized by PG Research Department of Chemistry, AVS College of Arts and Science, Salem - 06 on 01<sup>st</sup> September 2022.
12. Acted as a Resource Person and delivered a guest lecture talk on "Improving technical skills for Chemists" organized by PG Research Department of Chemistry, Thanthai Hans Roever College (Autonomous), Perumbalur - 621 220 on 14<sup>th</sup> September 2022.
13. Acted as a Chair Person in the International level conference on Tropical Drifts in Nano science and Green Chemistry (TDNSGC 22) Jointly Organized by the Department of Chemistry and Bio-Chemistry, Theni Melapettai Hindu Nadargal Uravinmurai, Nadar Saraswathi College of Arts & Science, Theni, Tamilnadu from 21.09.2022 to 22.09.2022.
14. Acted as a Resource Person and delivered a guest lecture talk on "Developing skills for Career Opportunities in Chemistry" organized by the Department of Chemistry, St. Joseph University, Chumoukedima, Nagaland - 797115 on 29<sup>th</sup> September 2022.

15. Acted as a Resource Person and delivered an invited talk on "Corrosion Prevention of metal and their alloys in a Five Days National Online Faculty Development Programme on Recent Trends on Research and Development in Chemistry Topics" organized by the Internal Quality Assurance Cell and PG and Research Department of Chemistry, Theivanai Ammal College for Women, Vilupuram - 605 401 from 13.02. 2023 to 17.02.2023.

16. Acted as a Resource Person and delivered an invited talk on "Intellectual Property rights – Technological Research and Innovations in a guest lecture" organized by the PG and Research Department of Chemistry, Theivanai Ammal College for Women, Vilupuram - 605 401 on 21-02-2023.

17. Acted as an External Member for Interview Panel held at Theivanai Ammal College for Women, Vilupuram - 605 401 on 05-03-2023.

18. Acted as a Resource Person and delivered an invited talk on "Preparation of Domestic Products and their Validation & and Gave Hands on Training on "Chemdraw Software organized by the PG Department of Chemistry, Jairams Arts and Science College, Karur, Tamilnadu on 08-03-2023.

## **27. Editorial Board member / Peer Reviewer / Advisory Committee**

- ❖ Editor of International Research Journal of Chemistry and Chemical Sciences.
- ❖ Editorial board member of American Journal of Applied and Industrial Chemistry (AJAIC).
- ❖ National Advisory Board member of International Journal of Nano Corrosion Science and Engineering.
- ❖ Reviewer of Science Asia, Thailand.
- ❖ Reviewer of Colombian Journal of Chemistry.
- ❖ Reviewer of Journal of Pharmaceutical Research International.
- ❖ Reviewer of Chemical Science International Journal.
- ❖ Associate Guest Editor of Special Issue on Applied Biological Science – August 2022 in International Journal of Zoological Investigations.
- ❖ Advisory Committee member for One Day National Level Conference on Materialsooz - 2022, Organized by Department of Chemistry, AVS College of Arts and Science, Salem – 06.
- ❖ Editorial Board member in the National conference on Innovation in Nanoresearch (NCINR 2022) Jointly Organized by the PG and Research Department of Physics and PG Department of Chemistry, Jairams Arts and Science College, Karur, Tamilnadu on 21.09.2022.
- ❖ Reviewer of Journal of Uttar Pradesh Journal of Zoology.
- ❖ Editor of Journal of Polymer & Composites.
- ❖ Reviewer of Journal of Polymer & Composites.
- ❖ Reviewer of Journal of Applied Life Sciences International.

## **28. Membership**

- ❖ Life Membership in Indian Society of Systems for Science and Engineering (ISSE).

## 29. Organizer for Workshops/Seminars

- ❖ **Organized Awareness Camp on “Drug Abuse and Illicit Trafficking”** on 17.03.2014, at RVS Educational Trust’s Group of Institutions, Dindigul-05.
- ❖ **Organized A Three Day Workshop on Domestic Products Preparation”** from 03.01.2018 to 05.01.2018 at PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20.
- ❖ **Organized A Live Session on Soil Nutrients – Its Needs and Importance”** on 22-06-2020 at PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 through online mode.
- ❖ **Organized a State level webinar on Strategies to Identify Medicinally Potent Compounds from Plants”** on 17-06-2020 at PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 through Virtual mode.
- ❖ **Organized a State level webinar on Analytical Separation Techniques”** on 28-05-2020 at PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 through Zoom meeting.
- ❖ Acted as an **organizing committee member** in an Online National level Intercollegiate Fest JAM CHEM FEST 2K22 organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20 on 25-05-2022.
- ❖ Served as an **Organizing Secretary** in the One Day National Level Students Conclave on “Innovation and Novel Ideas” Organized by the PG and Research Departments of Mathematics and Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 Under DBT Star College Scheme on 27-02-2023.

## 30. Awards / Honours

1. Received Best Junior Researcher Award in Science Faculty for the Academic year 2022-2023, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.

## 31. Industries Visited

1. Visited Soil Testing Laboratory, Mannarpuram, Trichy from 21-11-2022 to 22-11-2022.
2. Visited UPASI Tea Research Foundation, Regional Centre, Coonoor on 17-12-2022.
3. Visited Marico Limited, SIPCOT industrial Growth Centre, Perundurai on 21-12-2022.
4. Visited Tiruchirappalli District Co-operative Milk Producers union Ltd, Tiruchirappalli on 27- 12-2022.

**(Dr. S. S. SYED ABUTHAHIR)**