



INTERNATIONAL JOURNAL OF NANO CORROSION SCIENCE AND ENGINEERING.



Jamal Mohamed College (Autonomous)

Tiruchirappalli-620 020

PG & Research Department of Chemistry (Aided)

RESUME (as on 00.00.2013)

1. **Name** : Dr. A. JAMAL ABDUL NASSER

2. **Sex** : MALE

3. **Designation** : Assistant Professor in Chemistry

4. **Date of birth** : 26-05-1963

5. **Address:**
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6. Educational Qualification

B.Sc., Chemistry 1985

M.Sc., Chemistry 1989

M.Phil., Chemistry 1997

Ph.D., Chemistry 2003

7. Experience

UG : 24 Years

PG : 24 Years

M.Phil : 10 Years

8. Language Known : Tamil, English.,

9. Areas of Specialization : Synthetic Organic Chemistry and Corrosion inhibitors.

10. Subjects Taught :

UG : General Chemistry, Inorganic Chemistry and Applied Chemistry

PG : Organic Chemistry and Inorganic Chemistry

M.Phil : Separation, purification techniques and Bioinorganic
Chemistry

11. Research Supervision:

M.Phil., Degree : 28

Ph.D., Degree :

Completed	06
Thesis submitted	01
Ongoing Research work	08

12. Seminars / Conferences / Workshops Attended:

1. National Seminar on “**Bioactive Polyphenols**” Sponsored by AICTE, Organised by Department of Chemistry, Regional Engineering College, Trichy, India. (1994).
2. Attended “**Symposium on Recent Advances in Boiler House and Power Station Chemistry**” Organised by the Department of Chemistry Regional Engineering College, Tiruchirappalli on 26th October (1996).
3. National Conference on “**Recent Research in Coordination Chemistry**” Sponsored by UGC, Organised by Department of Chemistry, Regional Engineering College, Trichy. (1997).
4. National Level Students Symposium on “**Corrosion and its Control**” Organised by Department of Chemistry, Regional Engineering College, Trichy on 29th & 30th September (2001).

5. Attended UGC Sponsored **National Symposium on Recent Trends in Heterocyclic Chemistry** (NSRTHC-2004) Conducted by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchippalli-20 during 24 & 25 September 2004.
- 6 Attended “ **National Conference on Application Oriented Nanomaterials (NANOMAT-2005)**”, Conducted by Department of Industrial Chemistry, Alagappa University, Karaikudi, on 10th and 11th March, 2005.
- 7 National Seminar on “**Recent Trends in Material Science**” Sponsored by UGC, organized by Department of Physics and Department of Industrial Chemistry, Alagappa University, Karaikudi, (2005).
- 8 National Seminar on “**Recent Trends in Applied Chemistry**” Organised by PG & Research Department of Chemistry, St. Joseph’s College, Trichy(2005).
- 9 TANSCHÉ and UGC sponsored Three day workshop on “ **Curriculum Development and Evaluation**” Organized by UGC – Academic Staff College, Bharathidasan University, Conducted during 2nd and 4th March (2006).
- 10 UGC sponsored State Level Seminar on “**Emerging Trends in Chemistry**” Jamal Mohamed College, Tiruchirappalli 9th March 2006.
- 11 Attended a seminar on “**Advanced Topics in chemistry**” Jamal Mohamed College, Trichy on 13th & 14th March 2007.
- 12 Attended a seminar on “**Modern Techniques in Chemistry**” held on March 5 & 6, 2008, at Jamal Mohamed College, Tiruchirappalli, Tamilnadu.
- 13 Attended UGC sponsored State Level Seminar on “**Frontier Studies in Chemistry**” held on February 9 and 10, 2010, at Jamal Mohamed College, Tiruchirappalli, Tamilnadu.

13. Paper (s) Presented :

1. **“Investigation of Some Natural Product extracts as Corrosion Inhibitors for Mild Steel in acidic medium”** National Seminar in “Recent Trends in Applied Chemistry, Organised by PG & Research Department of Chemistry, St. Joseph’s College, Tiruchirappalli 620001. India (2005).
2. **“Dipropyl Sulphide as an effective inhibitor for the corrosion of brass in Nitric acid medium”** National seminar on 12.10.07.
3. Presented a Paper entitled **“Study of the Effect of 3-isopropyl-2,6-diphenyl piperidin-4-one act as inhibitor for the corrosion of mild steel in acidic medium.”**, at the DST-FIST sponsored National Conference on recent trends in chemistry (NCRTC-2007) organized by Bishop Heber College (Autonomous), Tiruchirappalli-17.
4. Presented a paper entitled **“Synthesis and Pharmacological Evolution of various substitution involving-1, 4-dihydro pyridine derivatives.”** Organized by the PG and Research Department of Chemistry, The American College, Madurai, on Jan 10th & 11th 2008, UGC, DST, DRDO and CSIR sponsored National Symposium on Frontier Areas in Chemistry.
5. Presented a paper entitled **“A study of the inhibitive influence of N-Nitroso-3-Methyl-2, 6-diphenylpiperidine-4-one on the corrosion of Mild Steel in 1M HCl medium”**. Organized by the PG and Research Department of Chemistry, The American College, Madurai, on Jan 10th & 11th 2008, UGC, DST, DRDO and CSIR sponsored National Symposium on Frontier Areas in Chemistry.
6. Presented a paper entitled **“Synthesis, Characterization and Biological activity of some 1,3-substitued-2-thioxo-imidazolin-4-one and imidazolin-2,4-dione derivatives”** Organized by Dept. of Chemistry SRM University, Kattankulalthur on Jan-24th & 25th 2008. National conference on frontiers of chemistry (NCFC-2008).
7. Presented a paper entitled **“Synthesis and biological activity of various**

Substitution involving 1,4-dihydropyridine derivatives” on Jan- 27th-29th ,2008, In the International conference on Drug discovery and Nanotechnology, Organized by Dept. of Chemistry Yeshwant Mahavidyalaya, Maharashtra, India.

8. Presented a paper entitled **“Synthesis, characterization and pharmacological evaluation of various heterocyclic rings formed in 3,5 position of 2,4-dimethyl Pyrrole derivatives”**. On Jan- 27th- 29th ,2008, In the International conference on Drug discovery and Nanotechnology, Organized by Dept. of Chemistry, Yeshwant Mahavidyalaya, Maharashtra, India.
9. Presented a paper entitled **“Inhibiting effect of diethyl sulphides on the corrosion of mild steel in 3N Nitric acid”** on Feb 11th &12th ,2008, National Seminar, Organized by PG and Research Department of Chemistry, National College, Trichy.
10. **“corrosion inhibition by phenolate anions”** – national conference on frontiers in chemistry research, organized by department of chemistry, Holy Cross college, Tiruchirappalli held at 5 th dec, 2008.
11. **“m-nitro phenol as corrosion inhibitor for mild steel”**- In the national Seminar on Recent Advances in Textile and Electrochemical Sciences(RATES 2008) held at Department of Industrial Chemistry, Alagappa University, Karaikudi during December 19th & 20th of 2008.
12. Presented a paper entitled **“A Study of Inhibitive Influence of Diallyl Sulphide on the corrosion of mild steel in 3N Nitric acid”** on Feb 11th &12th ,2008, National Seminar, Organized by PG and Research Department of Chemistry, National College, Trichy.
13. **“Statically significant synergistic effect of resorcinol-Zn²⁺ system in controlling the corrosion of carbon steel in well water”**- National conference on recent advances in surface engineering (RASE-09) conducted by national aerospace laboratories (CSIR),Bangalore on 26th & 27th Feb-2009.
14. Presented a paper entitled **“Synthesis and Medicinal Applications of 1,4-dihydropyridine derivatives”**On Feb-26th-March 01st ,2009,13th ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact of Health and Environment, Jointly Organised by Department of Chemistry, University of Delhi and Indian Society of Chemists and Biologists, Lucknow.

15. Presented a paper entitled **“Synthesis and Biological Application of Imidazole Derivatives”**. On Feb 27th & 28th, 2009, UGC Sponsored National Seminar on Recent Advances in Chemistry (NSRAC-09), Organized by Department of Chemistry, A.V.C. College, Mannampandal, Mayiladuthurai.
16. Presented a paper entitled **“Synthesis, Characterization and Antimicrobial activity of some Pyrazole Derivatives”**. On Feb 27th & 28th, 2009, UGC Sponsored National Seminar on Recent Advances in Chemistry (NSRAC-09), Organized by Department of Chemistry, A.V.C. College, Mannampandal, Mayiladuthurai.
17. Presented a paper entitled **“Inhibitive action of o-nitro phenol in controlling the corrosion of carbon steel”**. On Feb 27th & 28th, 2009, UGC Sponsored National Seminar on Recent Advances in Chemistry (NSRAC-09), Organized by Department of Chemistry, A.V.C. College, Mannampandal, Mayiladuthurai.
18. **“Inhibitive and biocidal action of phenol –Zn²⁺ in controlling the corrosion of carbon steel in well water”**- National symposium on Electrochemical science and technologies, Organized by the Electrochemical society of India, Indian Institute of science, Bangalore on 17th & 18th July-2009.
19. **“Thiophenol as a corrosion inhibitor for mild steel in the presence of Mn²⁺ ion”**- National Conference on Recent Advances in Chemistry, organized by the Chemistry Dept., Bishop Heber College, Trichy – 17, On 18th September 2009.
20. Presented a paper entitled **“ Influence of some aliphatic sulphides on the corrosion inhibition of carbon steel in hydrochloric acid medium”**. In the national conference on Recent Advances in Textile and Electrochemical Sciences held at Alagappa University, Karaikudi during December 4th -5th of 2009.
21. Presented a paper entitled **“Inhibitive action of Catechol-Zn²⁺ in controlling the corrosion of carbon steel in ground water”**. In the national conference on Recent Advances in Textile and Electrochemical Sciences held at Alagappa University, Karaikudi during December 4th -5th of 2009.
22. Attended and presented the paper **“ Study on the effect of 2,6-bis(4-methoxyphenyl)-3- methylpiperdin-4-one act as corrosion inhibitor for the corrosion of mild steel in 1 M H₂SO₄ medium”** on 18th September 2009 in the National Conference on Recent Advances in Chemistry organized by the Chemistry Dept., Bishop Heber College, Trichy – 17.

23. Participated and presented a paper entitled **“Study on the effect of N-(1-morpholinobenzyl)urea acting as corrosion inhibitor for the corrosion of mild steel in 1M H₂SO₄ medium”** in the national conference on Recent Advances in Textile and Electrochemical Sciences held at Alagappa University, Karaikudi during December 4th - 5th of 2009.
24. Presented a paper entitled **“An Eco-friendly inhibitor for the control of corrosion of carbon steel in ground water”** on 7th and 8th July 2010. In the International Conference on Green Chemistry and Sustainable Environment, organized by the Department of Chemistry (DST – FIST Sponsored) Holy cross College, Tiruchirappalli, Tamilnadu. India.
25. Presented a paper entitled **“Synthesis, Characterization of Some Imidazolidine Mannichbase Derivatives and their Antimicrobial activities”** on 22th de 2011. National Conference on Frontier Areas in Chemistry (NCFAC-2011), organized by the Department of Chemistry(UGC, Delhi Sponsored), Pondicherry University, Pondicherry, India.
26. Presented a paper entitled **“Antifungal activity of Azole derivatives and their structure activity relationships”**17th International Conference on “Expanding Horizons in C hemical and Biological Sciences: Innovations Crossroads” ISCBC-2012, January 21st – 24th, 2012, School of Chemical Sciences, Solapur University, Solapur, Maharashtra.
27. Presented a paper entitled **“Anticancer activity of 1,4-dihydropyridine derivatives”** on 10-12th September 2012.In the 2nd world congress on cancer science & therapy organized by 53 rd OMICS Group Conference, Hilton Antonio Airport, USA.
28. Presented a paper entitled **“Synthesis of some series of imidazolidin derivatives and their biological activities”** on 27th & 28th February 2013. In the National Conference on Current Trends in Chemistry Research (**NCTCR-2013**)Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020.
29. Presented a paper entitled **“Synthesis, Characterization, Biological and Activity of Some Mannich base derivatives”** on 5-7th December 2013. International Conference on Emerging Trends in Chemical sciences(IETC),Organized by the Chemistry Division, School of Advanced Sciences, VIT University, Vellore.
30. Paper presented at National Conference on Current Trend in Chemistry Research (NCTCR-2013) paper entitled **“Synthesis and screening the biological activity of some imidazolidine derivatives ”** Organized by the PG & Research Department of Chemistry, Jamal Mohamed College(Autonomous),Tiruchirappalli-620 020,Tamilnadu on 27th & 28th February-2013.

31. Paper presented at National Conference on Current Trend in Chemistry Research (NCTCR-2013) paper entitled **"Synthesis, Characterization and Pharmacological importance of piperidopyrimidines "** Organized by the PG & Research Department of Chemistry, Jamal Mohamed College(Autonomous),Tiruchirappalli-620 020,Tamilnadu on 27th & 28th February-2013.
32. Paper presented at International Conference on Chemistry in Synergy with Material and Biology 10&11 January 2014. "Ammonium Acetate Mediated Multi-component Reaction Leading to Aminocyanopyridines" Organized by the PG & Research Department of Chemistry, Bishop Heber College, Tiruchirappalli-17.
33. Presented a research Paper entitled **"Synthesis of aminocyano pyridines as potent antimicrobial agent"** International Conference on Chemical and Environmental Research (**ICCER-2014**), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 11th & 12th March 2014.
34. Presented a research Paper entitled **"Synthesis of some series of imidazolidin derivatives and their antibacterial activities "** International Conference on Chemical and Environmental Research (**ICCER-2014**), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 11th & 12th March 2014.
35. Presented a research Paper entitled **"study on the effect of-2-((4-hydroxyphenyl) (morpholino) methyl) hydrazine carboxamide as corrosion inhibitor for mild steel in 1.0 M H₂SO₄".** International Conference on Chemical and Environmental Research (**ICCER-2014**), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 11th & 12th March 2014.
36. Presented a research Paper entitled **"Absorption and corrosion inhibition effect of 4-[(3-nitrophenyl)methyl]morpholine on mild steel in sulphuric acid medium"**. International Conference on Chemical and Environmental Research (**ICCER-2014**), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 11th & 12th March 2014.
37. Presented a research Paper entitled **"Corrosion inhibition of copper in nitric acid solutions by organic compound"**. International Conference on Chemical and Environmental Research (**ICCER-2014**), Organized by PG & Research Department Of

Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 11th & 12th March 2014.

38. Presented a paper entitled **“An efficient synthesis of cyanoiminobenzopyran hybrids as potent antimicrobial agents”** National conference on Wonders of the small exploring the microbial world April 3th & 4th, 2014. Microbiology program, Pondicherry University, Pondicherry - 14.
39. 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 24th & 25th July 2014.
40. Presented a research Paper entitled **“Corrosion resistance of mild steel by Zinc Complex of 1-(8hydroxyquinolin-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 11th August 2014.
41. Presented a paper entitled **“Synthesis and antibacterial activity of some novel imidazolidin derivatives”** on 8-10th September 2014. International Symposium on Resent Advances in Medicinal Chemistry (ISRAM-2014), Department of Medicinal Chemistry, National Institute of Pharmaceutical and Educational Research(NIPER),S.A.S Nagar-160 062,Mohali.

14. Publications:

1. **“Aliphatic Sulfides- Effective corrosion inhibitors for mild steel in sulphuric acid solution”**. *J. Electrochem. Soc. India.*, 534-2(2004) 39-44.

2. **“ Aliphatic –Sulphates: Effective corrosion inhibitors for Mild steel in sulfuric acid”**. *Bulletin of Electrochemistry.*, 21(7), 2005, 305-311.
3. **“Investigation of some Natural Product Extract as Corrosion Inhibitors for Mild steel in acidic medium”**. *Corrosion Science and Technology.*,4(6) (2005)231-235.
4. **“Dialkyl sulphides as inhibitors for the corrosion of Zinc in acidic solutions”**, *JARJ.*,3(2), 22-26, 2006.
5. **“ Effect of 2,6-diphenylpiperidin-4-one derivatives as inhibitors for the corrosion of mild steel in sulphuric acid medium “** in the *Bulletin of Electrochemistry.*, 23 (2007) 237- 242.
6. **“Synthesis, Characterization and Biological activity of some 1,3-substitued - 2-thioxo- Imidazolin-4-one and imidazolin-2,4-dione derivatives”**. *Indian J. Heterocyclic Chem.*,17, (2008)269-270.
7. **“A Validated Specific Stability-indicating RP-HPLC method for Pioglitazone hydrochloride”**, *ACAIJ*, 7(4)2008, 255-261.
8. **“Synthesis and Antimicrobial activity of some 2-thioxo-imidazolidin-4-ones”**. *Indian J.Heterocyclic Chem.*, 18 (2009), 399-400.
9. **“Stress degradation behaviour of desipramine hydrochloride and development of suitable stability indicating LC method”** *chromatographia* 2008, 68, December (No.11/12).
10. **“M-Nitro Phenol as a corrosion inhibitor for carbon steel”** *J.Electrochem Soc. India.*, vol.58-1/2(2009) 30-36.
11. **“Synthesis and Biological Activities of new series of Imidazolidin-2, 4-dione derivatives”** *Asian J. Chem.*, 22(8), 2010, 5853 – 5858.
12. **“Inhibitive action of hydroquinone – Zn²⁺ in controlling the corrosion of carbon steel in well water”** *J. Eng. Sei and Tech.*, 2(4), (2010), 341 – 357.
13. **“Synthesis, Characterization and Electrochemical Behavior of Transition Metal (II) Complexes from 2.6 – Dipheny) Piperidin – 4. Thiosemicarbazone and their Antimicrobial Studies”** *Asian J.Chem.* 3(4), 2010, 1022 – 1026.

14. "Development and validation of stability indicating method for the quantification of Idebenone and its impurities" *J. Chem. Pharm. Res.*, 2(3), (2010) 356 – 367.
15. "Adsorption and Corrosion Inhibition of Mild Steel in Hydrochloric ACID Medium By N-[Morpholin-4-yl(Phenyl)Methyl] Benzamide", *J. Engg. Sci and Tech.*, 2(11), (2010), 6417 – 6426.
16. "Synthesis of some 2-thioxo-imidazolidin-4-one derivatives and its antimicrobial activity". *E-Journal of Chemistry.*, 7(4) (2010) 1320-1325.
17. "Synthesis of some Mannich base derivatives and their antimicrobial activity" *Arabian Journal of Chemistry*, 2010.
18. "Synthesis and characterization of new series of imidazoline-2,4- dione derivatives and its antimicrobial activity" *Oriental journal of chemistry.*, 26(4), (2010) 1425-1430.
19. "Synthesis and antimicrobial activity of a new series of 1,4-dihydropyridine derivatives", *J. Serb. Chem. Soc.*, 76(1), (2011) 1-11.
20. "Synthesis and characterization of new ethyl 3,5-dimethyl-4-[(4-phenyl-1,3-thiazol-2-yl)carbamoyl]-1H-pyrrole-2-carboxylate" *Molbank* .,(2010).
21. "Adsorption and corrosion inhibition effect of N-(1-morpholinobenzyl)urea on mild steel in acidic medium", *E-Journal of Chemistry.*, 8(2) (2011) 621-628.
22. "Inhibition of corrosion of carbon steel by resorcinol-Zn²⁺ system in well water", *S-JPSET.*, 1(2), (2011), 115-123.
23. "Synthesis and anticancer activity of some new series of 1,4-dihydropyridine derivatives" *Indian Journal of Chemistry.*, 50B,(2011) 1140-1144.
24. "Synthesis and anticonvulsant activity of a new series of 1,4-dihydropyridine derivative". *Indian journal of pharmaceutical sciences.*, November-December 72(6)2010,719-725.
25. "Synthesis of some new pyrrole derivatives and their antimicrobial activity", *Der Pharma Chemical.*,3(4),(2011) 210-218.

26. "Synthesis and anticoagulant activity of a new series of 1,4-dihydropyridine derivatives", *European Journal of Medicinal Chemistry*,46(2011)804-810.
27. "Synthesis, Characterization and Antimicrobial Activity of New Pyrrole Derivatives" *J. Max. Chem. Soc.*,55(4),(2011),217-222.
28. "Adsorption and Corrosion Inhibition of Mild Steel in Sulphuric Acid solution by N-[MORPHOLIN-4-YL(PHENYL)METHYL]BENZAMIDE". *Instanci Journal of chemistry*,1(1)2011,18-33.
29. "Evaluation of Corrosion Inhibition of Brass in Nitric Acid Solutions Using Organic Sulphide Compound". *International Journal of Chemical and Analytical Science*,3(8),(2012),1506-1508.
30. "Investigation of the Inhibition of Copper in Nitric Acid Solutions by Organic Sulphide Compound", *Advances in Applied Science Research*,3(3)(2012)1749-1756.
31. "Corrosion Inhibition of Copper in Acid Medium using a New Organic sulphide compound". *Der Chemica Sinica*,3(2)(2012) 402-412.
32. "Corrosion inhibition of mild steel by 1-(8-hydroxy quinolin -2yl-methyl)urea"., *International Journal of Technology and Engineering Science*,1(3),(2013) 226-230.
33. "Inhibition of Mild Steel Corrosion by Nickel Complex of 1-(8-hydroxy quinolin -2yl-methyl)urea in Sodium Chloride Solution"., *Indian Journal of Applied Research*. 3(7) (2013) 116-119.
34. "Electrochemical and Surface Analysis Studies on Corrosion Inhibition of Mild Steel by 1-(8-hydroxy quinolin -2yl-methyl)urea"., *Eur. Chem. Bull.*2(11) (2013) 932-935.
35. "Electrochemical Behavior of Zinc Complex of 1-(8-hydroxy quinolin -2yl- methyl)Urea as Corrosion Inhibitor for Mild Steel"., *Applied Chemistry*, 61 (2013) 16837-16841.
36. "Highly Effective Inorganic Corrosion Inhibitor for Mild Steel in Sodium Chloride Solution"., *Eur. Chem. Bull.*, 2(12)(2013) 1041-1044.
37. "Synthesis, Spectral Studies and Antibacterial Activities of 8- Hydroxyquinoline Derivatives and Its Metal Complexes" *Chem Sci Trans.*, 3(1)(2014)303-313.

38. Investigation on the Inhibition of Mild Steel Corrosion in neutral solution by 1-(8- hydroxy quinolin-2yl-methyl) thiourea. Journal of Chemical, Biological And Physical Sciences,4(4), (2014), 3001-3010.

39. " Inhibition of Mild Steel Corrosion by 1-(8-Hydroxyquinolin-2-ylmethyl) Urea" *Eur. Chem. Bull.*, 3(1)(2014) 40-45.

40. "Synthesis, Characterization and Microbial Activities of Novel Acetylthiophene Chalcone Derivatives" *IJSR* , ISSN., (Online): 2319-7064.

41. "Synthesis, Characterization and biological activity of certain Pyrazole derivatives" *J.Chem.Pharm.Res.*,6(9)(2014)189-193.

