RESEARCH PUBLICATIONS OF DR. M.A. QURAISHI

A. DURING Ph.D. WORK

1. New and convenient synthesis of Indeno [1, 2-c] quinoline Derivatives  

2. Synthesis and CNS activity of some new Indeno [1, 2-c] Pyrazoles  
   \textit{IL-Farmaco}, 44 (1989) 753-757 (Italy)

3. The synthesis of Monomethoxy-6-Methyl-7H-indeno [2,1-c] quinolines  
   \textit{J. Heterocyclic Chem}, 26 (1989) 221-223 (USA)


5. Identification of some isomeric Schiff’s bases by thin layer chromatography  
   \textit{Acta Ciencia Indica}, 9 (1983) 91


7. Synthesis and mass spectral studies of Ketimines Part-I Fragmentation of some new (1 2-Dioxoindan-2yl)-ethyldene/arylidine anilines under electron impact  


10. Synthesis of some new 1-benzothiazolo-2yl-1,3-ethyl-4H-Indeno [1, 2-c] Pyrazoles and its 6-substituted analogues  

11. Synthesis of some new 1-[6-sustituted-4-methyl-quinol-yl]-3-ethyl-4H-Indeno [1 2-c] Pyrazoles  
    \textit{J. Indian Chem. Soc}, 67, (1990), 77-79

B. AS RESEARCH GUIDE (as senior author)

1. Influence of amino-mercapto-methyl thiazole on the corrosion and permeation of hydrogen through mild-steel acidic solutions  

(\textit{\textcopyright})
2 2-Hydrazino 6-methyl-benzothiazole as an effective inhibitor for Corrosion of mild steel in acidic solutions
   Corrosion Science, 36 (1994) 789-84 (UK)

3 Influence of 2-Salicylideneamino-6-methyl-benzothiazole on corrosion and permeation of hydrogen through mild steel in acidic solution

4 Influence of some thiazole derivatives on the corrosion of mild steel in hydrochloric acid
   Anti-corrosion Methods and Materials, 43 (1996) 5-8 (UK)

5 Influence of substituted benzothiazoles on corrosion in acid solution
   J Applied Electrochem, 26 (1996), 1253 (UK)

6 The influence of molecular structure of substituted benzothiazoles on corrosion inhibition and hydrogen permeation through mild steel in sulphuric acid
   British Corrosion Journal, 32 (1997) 129-134 (UK)

7 The influence of heterocyclic amines on corrosion inhibition and hydrogen permeation through mild steel in acid chloride environment
   Corrosion, 53 (1997) 467 (USA)

8 Environmentally friendly inhibitor formulations for industrial cooling systems
   Corrosion Prevention & Control, U K, (1997), 129-134 (UK)

9 Inhibition of steel corrosion by some new triazole derivatives in boiling hydrochloric acid,
   British Corrosion Journal, 32 (1997) 297-300 (UK)

10 Corrosion inhibiting properties of some polyaza-macrocyclic compounds on mild steel in acidic environment
    Anti-Corrosion Methods and Materials, 45 (6) (1998) 419-425 (UK)

11 Investigation on some macrocyclic compounds as corrosion inhibitors
    Corrosion, 54 (1998), 996 (USA)

12 Investigation on some green compounds as corrosion and scale inhibitors for cooling water systems
    Corrosion, 55 (1999) 493-497 (USA)

13 Synergistic effect of iodide ions on inhibitive performance of dithiobiurates in 5N or HCl
    Corrosion, 55 (1999) 919-923 (USA)

14 Thioamidines A novel class of corrosion inhibitors

15 Inhibition of dezincification of 70/30 brass by amino-alkyl mercapto-triazoles,
    British Corrosion J 35 (2000), pp 78-88 (UK)

16 Fatty Acid Derivatives as corrosion inhibitors for MS and Oil-well - Tubular steel in 15% Boiling hydrochloric acid
17 Fatty acids trazoles  Novel corrosion inhibitors for oil well steel and mild steel  
J. Am. Oil Chem. Soc. 77(2000), 1107-1111 (USA)

18 Dianils as New and Effective Corrosion Inhibitors for N-80 and Mild Steel  
Corrosion, 56 (2000) 156 (USA)

19 Influence of some Condensation products on corrosion of Mild Steel in acidic solutions  
Anti Corrosion Methods and Materials 47 (2000), 233-240 (UK)

20 Dithiobiurets  A novel class of corrosion inhibitors  

21 Fatty Acid Oxadiazoles  As New Acid Corrosion Inhibitors for Mild Steel  
Anti-Corrosion Methods and Materials 47(2000), 77-82 (UK)

22 CAHMT - A new and eco-friendly acidizing corrosion inhibitor  
Corrosion 56 (2000) 983 (USA)

23 Corrosion inhibition of mild steel in acid solution by MTAT (Tetramethyl-dithiaoctaaza -  

24 Influence of 4-Amino-5-Mercapto-3-n-Propyl-1,2,4-triazole on the corrosion and permeation  
of hydrogen through mild steel in acidic solutions  

25 Inhibition of N-80 and mild steel in 15% boiling hydrochloric acid by a new organic inhibitor –  
SAHMT  
Materials Chem. Phys 68 (2001), 263 (Ireland)

26 Fatty acid oxadiazole  New Corrosion inhibitors for oil well steel (N-80) and mild steel  

27 Development and testing of an improved pickling inhibitor for hot sulphuric acid  
Materials performance, 40 (2001) 42-45 (USA)

28 A review on macrocyclics as corrosion inhibitors  
Corrosion Reviews 19 (2001) 273-312 (UK)

29 A study of some new organic inhibitors on corrosion of N-80 and MS in HCl  
Anti Corrosion methods and Materials 48 (2001) 251 (UK)

30 Influence of iodide ions on inhibitor performance of tetraphenylazacyclodecaaxaena  (PTAT)  
during pickling of mild steel in hot sulphuric acid  

31 Inhibition of Mild Steel Corrosion by some aromatic Hydrazides  
32. 1,2,4,5-tetrazo spiro(5,4)decane -3- thione as corrosion inhibitor for arsenical aluminium brass in 3.5% NaCl solution.  
   Anti Corrosion methods and materials 48(2001), 376-380  
   (UK)

33. Inhibition of mild steel corrosion by some macrocyclic compounds in concentrated hydrochloric acid.  
   (Ireland)

34. Organic inhibitors for industrial cleaning applications.  
   (USA)

35. A study of some new acidizing inhibitors on corrosion N-80 Alloy in 15% boiling hydrochloric acid.  
   (USA)

46. Development and testing of all organic volatile corrosion inhibitors.  
   (USA)

37. Inhibition of MS corrosion in presence of fatty acid triazoles.  
   (NE)

   (USA)

39. Aromatic triazoles as corrosion inhibitors for MS in acidic environment.  
   Corrosion. 58(2002)747-756  
   (USA)

40. Corrosion inhibition of carbon steel by some organic compounds containing heti"eatoms.  
   (UK)

41. Dianils as corrosion inhibitors for MS in acidic medium.  
   (Ireland)

42. 2-amino – 3- butyl – 5- mercapto – 1,2,4- triazole : A new corrosion inhibitor for mild steel in sulphuric acid.  
   (Ireland)

43. Corrosion inhibition of mild steel in acid solutions by some aromatic oxdiaizes.  
   (Ireland)
44 Inhibition of mild steel corrosion in formic acid by some thiourea derivatives

45 Corrosion inhibiting action of tetra methyl octa-azacyclotetradeca-hexaene (MTAH) on corrosion of mild steel in 20% H2SO4

46 Corrosion inhibition of mild steel by some fatty acid thiosemicarbazides Corrosion 58 (2002) 201-207 (USA)

47 Dithiazolidines. A novel class of corrosion inhibitors
Corrosion 58 (2002) 103-107. (USA)

48 Development and Testing of New Volatile Corrosion Inhibitors for Multimetal Systems

49 Inhibitive Effect of Fatty Acid Derivatives on Mild Steel Corrosion in Formic acid

50 Corrosion Inhibition by Fatty Acid Trazoles for Mild Steel in Formic acid.

51 Influence of some-6-Methoxy-aminobenzothiazoles on Corrosion and Ferrous and Non-ferrous metals under vapour phase conditions.
Corrosion, 59 (2003), 238-241. (USA)

52 Transition metal complexes with [1, 2-dioxoindan-2-yl]-ethyldene-p-toluidine

53 2,4,5-Tetra-azospiro (5, 5) undecane-3-thione: a new acid Corrosion inhibitor for mild-steel

54 Azathiones: A new class of acid corrosion inhibitors for mild steel

55 A study of corrosion inhibitors on oil well steel and mild steel in boiling hydrochloric acid

56 Investigation on some aromatic schiffs bases as acid corrosion inhibitors for mild steel

57 A study of corrosion inhibitors on oil well steel and mild steel in boiling hydrochloric acid

58 The influence of some condensation products of aminobenzothiazoles and salicylaldehyde on corrosion and hydrogen permeation in sulphuric acid solutions

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59 Synergistic effect of 2-amino-6-chlorobenzo-thiazole on inhibitive performance of propargyl alcohol in boiling hydrochloric acid.
Bull Electrochem 13 (1997) 257

60 Thiazole derivatives as acid corrosion inhibitors for mild steel.
Trans, IIM, Bangalore 51 (1998) 431-433

61 Influence of some polyamide macrocyclic compounds on the inhibition of corrosion of mild steel in acid solutions.

62 Influence of some multifunctional Triazoles on corrosion of mild steel in boiling hydrochloric acid.

63 Synergistic effects of thiosulphate ions on inhibitive performance of tribenzylamine in sulphamic acid.
Bull Electrochem, 14 (1998) 298-301

64 Tetramethyl-Dithia-hexaazacyclobidecane-hexaene (MTAB) - A New Acid corrosion inhibitor for mild steel.

65 Effect of some condensation products of glyoxal diamines on mild steel corrosion in acidic environments.
J Electrochem, Soc, 48, (1999), 70

66 Investigation of some macrocyclic compounds as corrosion inhibitors of mild steel in sulphuric acid solution.

67 Corrosion of Tin cans and its inhibition.
J Food Sci & Tech 37 (2000) 529-532

68 Corrosion inhibitory properties of some condensation products on oil well tubular steel (N-80) and mild steel in acid environment.

69 Inhibition of mild steel corrosion in 5N HCl by some macrocyclic compounds in.
Bull Electrochem, 16 (2000), 54-59

70 Improvement in corrosion inhibiting performance of thiobisformamidines in 5N hot HCl.
J Electrochem Soc 49 (2000), 72-77

71 Synthesis and formulation of descaling inhibitors for steel.

72 1,2,4,5-Tetrazospiro (5,4) Decane-3-Thione as an Inhibitor for the corrosion of mild steel in acidic solutions.
Influence of some claisen-schmit products on corrosion of mild steel in sulphamic acid
Bull Electrochem, 17 (2001) 173

Azathiones Novel class of corrosion inhibitors for mild steel in formic acid Bull Electrochem 18 (2002) 327-331

Corrosion and inhibition of Al-Li alloy in alkaline solution

Influence of iodide ions on inhibitive performance of aromatic hydrazides during corrosion of mild steel in Sulfuric acid

Approach to corrosion inhibition by some green inhibitors based on oleo chemicals

Corrosion behaviour of VTS, STS and DTS Inhibitors in formic acid and acetic acids
Indian J chem , Tech 9(2002)479 – 483

Studies on high performance pickling inhibitors for hot sulfuric acid

Inhibition of mild steel corrosion by some thiazole derivatoves in boiling hydrochloric acid solution

Influence of Dithiazolidines on corrosion of mild steel in sulphuric acid solution

Inhibition of metallic corrosion by some 1(2-aminoethyl)-2 undecyl-2-imidazoline salts under vapour phase conditions
Bull Electrochem, 19 (2003), 295-300

Hector bases as novel class of corrosion inhibitors
J App Electrochem (Accepted) (NE)

In Books/Proceedings:

Breakthroughs in scale and Deposit control
Corrosion causes and mitigation Ed A Kumbhavedekar Quest Publication Vo 2 (2000) p 103-106

"Heterocyclics as corrosion inhibitors for acid media Published in reviews on Corrosion inhibitors Science and Technology, Vol 2, Eds A Raman and P Labine, NACE International, Houston, USA, 1996, IV, 1-21

Investigation of some benzothiazole derivatoves as effective corrosion inhibitor for mild steel corrosion and corrosion control, Eds A S Khanna and M K Totlani, 1995 226-235

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87 Piperazine & its Derivatives as Vapour Phase Corrosion Inhibitors

88 Agaricus as Corrosion Inhibitor for CW Systems

89 Natural compounds as corrosion inhibitors for mild steel in cooling water systems Proc Eurocor Trondheim (Norway) 2 (1997) 247

90 Natural Compounds as corrosion inhibitors for highly cycled cooling water system Corrosion/99 Paper # 95 (Houston, TX NACE 1999) USA

91 A Review on MS corrosion inhibition in hot and concentrated mineral acid by some organic compounds containing hetero atoms Corrosion-2002 USA

92 Heterokam A novel class of vapour phase corrosion inhibitors Proc 9th Euro Sym on Corrosion Inhibitors Ferrara Univ Ferrara 4-8 Sept , 2000 Italy 1 (2000) 481 Italy

93 Investigation on some hydrazide based vapour phase corrosion inhibitor for mild steel 9th Euro Sym on Corrosion Inhibitors Ferrara Univ Ferrara 4-8 Sept , 2000, 1 (2000) 493 Italy

C. AS CO AUTHOR


2 Study of low cost eco-friendly compounds as corrosion inhibitors for cooling water systems Anti-Corrosion Methods and Materials, 46 (1999) 328 (UK)

3 A study of natural compounds as corrosion inhibitors for industrial cooling systems Corrosion Prevention & Control, 45 (1999) 32-38 (UK)

4 Corrosion prevention of mild steel in 3% NaCl by some naturally occurring substances Corrosion prevention and control, 46 (1999) pp 93-96 (U.K)

D. AS INDEPENDENT AUTHOR

1. Inhibiting properties of some Mannich bases on corrosion of mild steel under vapour phase condition.

2. Triazole derivatives: New class of multimetal vapour phase corrosion inhibitors
   (Unpublished)

3. Approach to corrosion inhibition by some organic compounds in paper pulp environment
   (Unpublished)

PATENTS: (Development of Intellectual Property)

- A process for the preparation of a new organic inhibitor, 529/DEL/01 (CSIR)
- A formulation as corrosion inhibitor, 1060/DEL/01 (CSIR)

Book:

- The Science and Technology of Corrosion Inhibitors, (Under Preparation)