

RESEARCH PUBLICATIONS

List of papers published, accepted and communicated from the Thesis

1. Imidazolidine-2-thione as Corrosion inhibitor for mild steel in 1N Hydrochloric Acid. **Bincy Joseph**, Sam john, Abraham Joseph and B. Narayana, *Indian Journal of Chemical Technology*. 17 (2010) 366- 374.
2. Inhibition of Mild Steel Corrosion in 1M Hydrochloric acid using (E)-4-(2-chlorobenzylideneamino)-6-methyl-3-thioxo-3, 4-dihydro-1, 2, 4-triazin-5(2H)-one. **Bincy Joseph**, Sam john, K K Aravindakshan and Abraham Joseph, *Indian Journal of Chemical Technology* .17 (2010) 425-430.
3. Spectrophotometric determination of osmium(VIII) in trace amounts using Ethylene thiourea (ETU) as chromogenic reagent. **Bincy Joseph**, Sam john, Prajila. M and Abraham Joseph *Indian Journal of Chemical Technology*. 18 (2011) 113-117.
4. Inhibition of Mild steel corrosion in 1 M Hydrochloric acid using (E)-(4-(4-methoxybenzylideneamino)-4H-1,2, 4-triazole-3, 5-diyl) dimethanol(MBATD) **Bincy Joseph**, Prajila M and Abraham Joseph. *Journal of dispersion science and Technology* (Accepted) Ms JDST 2012/39.
5. Inhibition of copper corrosion in 1 M Nitric acid – Electro analytical and Theoretical study with (E)-(4-(4-methoxybenzylideneamino)-4H-1, 2, 4-triazole-3, 5-diyl) dimethanol (MBATD). **Bincy Joseph** and Abraham Joseph. *Portugaliae Electrochimica Acta*. PEA – M668-11 (Revision submitted)
6. Synthesis, characterization, computational and pharmacokinetic studies on coordination compounds of Co(II), Ni(II), Cu(II), Zn(II), Cd(II), Hg(II), Pt(IV) and Pd(II) with a heterocyclic Schiff base. **Bincy Joseph** and Abraham Joseph. *Journal of coordination chemistry*. GCOO-2011-0300 (Revision submitted)

Other publications

1. Inhibition of Mild steel corrosion in 1M Hydrochloric acid by 4-(N,N-Dimethylaminobenzilidene)-3-mercapto-6-methyl-1,2,4-Triazin(4H)-5-one (DAMMT). Sam john, **Bincy Joseph**, K K Aravindakshan & Abraham Joseph *Journal of Material Chemistry and Physics*.122 (2010) 374-379.
2. Complexes of Ag^I, Tl^I, Zn^{II}, Cd^{II}, Hg^{II}, Co^{II}, Ni^{II}, Ru^{II}, Pd^{II}, Ru^{III}, Rh^{III} and Pt^{IV} with 4-(pyridine-2-carboxylideneamino)-5-mercapto-1,2,4-triazole. Abraham Joseph, **Bincy Joseph** & B.Narayana. *J.Indian Chem.Soc*, 85 (2008) 479-484.
3. Electrochemical and quantum chemical study of 4 -[(E)- [(2,4 - dihydroxy phenyl) methylidene] amino]-6-methyl -3- sulphanylidene-2,3,4,5 tetra hydro – 1,2,4-triazin –5-one [DMSTT] . Sam John, **Bincy Joseph**, K.V Balakrishnan, K.K Aravindakshan & Abraham Joseph. *Journal of Material Chemistry and Physics*.123 (2010) 218-224.
4. Indirect complexometric determination of Mercury(II) using DL-Pencillamine as a Demasking Reagent. **Bincy Joseph** & Abraham Joseph *Res. J. Chem. Environ*, 11 (2007) 49-52.
5. Electroanalytical studies on the Interaction of 4-(N, N-Dimethylaminobenzilidene)-3- mercapto-6-methyl-1, 2, 4-triazin (4H)-5-one (DAMMT) with mild steel in perchloric acid Prajila M, Sam John, **Bincy Joseph** and Abraham Joseph, *Journal of material and Environmental Sciences (Accepted)*

Conference papers

A. *International*

1. Synthesis and spectral characterization of some transition metal complexes of 4-anisolidine amino-3-mercapto-6-methyl-1, 2,4-triazin(4H)-5-one. **International conference on Frontiers in Chemical research (ICFCR-2008). Department of chemistry, Mangalagalore University. (29-31 December 2008)**
2. Inhibition of Mild steel corrosion in 1M Hydrochloric acid by 4-(N,N-Dimethylaminobenzilidene)-3-mercapto-6-methyl-1,2,4-Triazin(4H)-5- one (DAMMT). *International conference on Recent advances in Industrial*

Electrochemical science and Technology (ICRAIEST-2009), Department of Chemistry, Mangalore University. (5-7 November 2009)

3. Effect of Ethylene Thiourea (ETU) on the corrosion of Mild steel in IM Hydrochloric acid. *International conference on Recent advances in Industrial Electrochemical science and Technology (ICRAIEST-2009), Department of Chemistry, Mangalore University. (5-7 November 2009)*
4. Role of Imidazolidine-2-thione (IT) as inhibitor for the Corrosion of copper in IN Hydrochloric acid. *International conference on Recent advances in Industrial Electrochemical science and Technology (ICRAIEST-2009), Department of Chemistry, Mangalore University. (5-7 November 2009)*

B. National

1. Spectrophotometric determination of Osmium(VIII) in trace amounts using Ethylene Thiourea as a chromogenic Reagent. *National seminar on current trends in chemistry (CTRIC-2008). Department of Applied Chemistry, CUSAT. (18,19 January 2008)*
2. Imidazolidine-2-Thione as corrosion inhibitor for mild steel and copper in I N HCl. *National seminar on current advances in Chemical science) CACS 2008). Department of Chemistry, S.H college ,Thevara, Ernakulam. (26,27 November 2008)*
3. Spectrophotometric determination of Osmium(VIII) in low concentration using DL-Pencil amine as a Chromogenic reagent. *National seminar on current advances in Chemical science) CACS 2008). Department of Chemistry, S.H college ,Thevara, Ernakulam. (26,27 November 2008)*
4. Electrochemical and quantum chemical study of 4 -[(E)- [(2,4 dihydroxy phenyl) methylidene] amino]-6-methyl -3- sulphanylidine-2,3,4,5 tetra hydro - 1,2,4- triazin -5-one [DMSTT] .*National Seminar on Emerging Materials- Synthesis and Applications(2009). School of chemical sciences ,Kannur University. (28 August 2009).*