

Publications in journals and presentations in seminars

Nimmy Kuriakose “Physicochemical, thermoanalytical, electrochemical and antitumour studies of transition metal complexes of schiff bases derived from heterocyclic carbonyl compounds” Thesis. Department of Chemistry, St. Thomas College, University of Calicut, 2015

List of Publications

- 1) **Nimmy Kuriakose**, Joby Thomas K*, Vinod P Raphael, Shaju K S,” (E)-3-[thiophen-2-ylmethyleneamino]benzoic Acid: Structural and Corrosion Inhibition Studies” *Chemical Science Reviews and Letters*, , 5(17), (2016) 14-20.
- 2) **Nimmy Kuriakose**, Joby Thomas K*, Vinod P Raphael, Shaju K S,” analysis of structure and corrosion inhibition properties of (e)-4-(5-[(2-phenylhydrazono)methyl]thiophen-2-yl)benzoic acid”, *Int. J. Chem. Sci & Res.* , v6 i1(2016) 07 – 17.
- 3) **Nimmy Kuriakose**, Joby Thomas K, Vinod P. Raphael, Shaju K. S., “Mild steel corrosion inhibition capacity of Schiff base derived from Thiophene-2-carbaldehyde: gravimetric and electrochemical investigation”, *Chemical Science Reviews and Letters*, 3(12) (2014) 1060-1067.
- 4) **Nimmy Kuriakose**, Joby Thomas Kakkassery, Vinod P. Raphael, Shaju K. Shanmughan, “Electrochemical Impedance Spectroscopy and potentiodynamic polarization analysis on anticorrosive activity of Thiophene-2-carbaldehyde derivative in acid medium”, *Indian J. Mater. Sci.*, 2014(2014), Article ID 124065, 6 pages.
- 5) Shaju K. Shanmughan, Joby Thomas K, Vinod P. Raphael, **Nimmy Kuriakose**, “Electrochemical and AFM studies on adsorption behavior of a polynuclear Schiff base at carbon steel in HCl medium”, *Current Chemistry Letters*, 4 (2015) 67-76.
- 6) Vinod P Raphael, Joby Thomas K*, K.S. Shaju and **Nimmy Kuriakose**, “Chelating Competency and electrochemical Response of a Heterocyclic

Phenylhydrazone and its Copper Chelate”, *Oriental J. Chemistry*, Vol. 30, No. (4) (2014) 2099-2104.

- 7) Shaju K.S, Joby Thomas K, Vinod P. Raphael, **Nimmy Kuriakose**, “Spectral and cyclic voltametric studies on Cu(II)-Schiff base complex derived from anthracene-9(10 H)-one”, *IOSR J. Appl. Chem.*, 7(10) I (2014) 64-68.
- 8) Joby Thomas K, Vinod P. Raphael, **Nimmy Kuriakose**, K.S.Shaju, “Spectroscopic and corrosion inhibition investigations on Schiff bases derived from aromatic aminosulphonic acids”, *ISST J. Appl. Chem.*, 3(2) (2012) 1-4.

Conference Papers

- 1) **Nimmy Kuriakose**, Joby Thomas K., Tinu Pius P., Jisha V., “Aminosulphonic acid derivatives: Potential corrosion inhibitors”, Proceedings of International Conference on Advances in Material Science (ICAMS 2013) p.136, held at Sree Sankara College, kalady, Kerala, October 23-24, 2013.
- 2) Shaju K S, Joby Thomas K, Vinod P Raphael, **Nimmy Kuriakose**, “Corrosion inhibition on carbon steel by Schiff base derived from 2-Amino -3 Phenyl Propanoic acid and it’s synergistic effect with iodide”, Proceedings of International Conference on Advances in Material Science (ICAMS 2013) p.136, held at Sree Sankara College, kalady, Kerala, October 23-24, 2013.
- 3) Vinod. P. Raphael, Joby Thomas K, Shaju K. S, **Nimmy Kuriakose**, “Corrosion Inhibition Investigations of 3-Acetylpyridine Thiosemicarbazone on Carbon Steel in Hydrochloric Acid Medium”, Proceedings of International Corrosion Prevention Symposium (CORSYM-2013), held at Chennai, February 28 – March 02, 2013.
- 4) K. P. Mary, K. Joby Thomas, **Nimmy Kuriakose**, Vinod Raphael, “Structural and antimicrobial investigations on transition metal complexes of arylazo derivatives of acetyl acetone glycine and dimedone glycine”, Proceedings of 22nd Swadesi Science Congress held at Central Plantation Crops Research Institute, Kasaragod, November 6-8, 2012.

Papers communicated / to be communicated

- 1) Quantum Mechanical and Electrochemical Investigations on Corrosion Inhibition Properties of novel heterocyclic Schiff bases - communicated to Current Chemistry Letters.
- 2) Cytotoxic and antitumour studies of copper(II) complex of 3-[thiophen-2-ylmethyleneamino]benzoic acid – to be communicated.
- 3) Spectroscopic and corrosion inhibition investigations on Schiff bases derived from phenyl hydrazone derivative – to be communicated.
- 4) Electrochemical studies on mild steel corrosion inhibition by a heterocyclic Schiff base derived from thiosemicarbazide – to be communicated.
- 5) Corrosion inhibition and antitumour studies of Schiff bases derived from Thiophene-2-carbaldehyde– to be communicated.