

LIST OF PUBLICATIONS

- 1) **Vinod P Raphael**, K. Joby Thomas, K. S. Shaju, Aby Paul, “*Corrosion Inhibition Investigations of 3- Acetylpyridine Semicarbazone on Carbon Steel in Hydrochloric Acid Medium*”, **Res. Chem. Intermed.**, (2013) doi: 10.1007/s11164-013-1122-3
- 2) **Vinod P Raphael**, K. Joby Thomas, K. S. Shaju, Aby Paul, “*Study of Synergistic Effect of Iodide on the Corrosion Antagonistic Behaviour of a Heterocyclic Phenylhydrazone in Sulphuric Acid Medium on Carbon Steel*”, **ISRN Corrosion**, (2013) doi:10.1155/2013/390823
- 3) Joby Thomas K, **Vinod P Raphael**, Nimmy Kuriakose, Shaju K S, “*Spectroscopic and Corrosion Inhibition investigations on Schiff Bases derived from Aromatic Aminosulphonic Acids*”, **ISST J. App. Chem.**, 3 (2012) 2
- 4) Aby Paul, Joby Thomas K, **Vinod P Raphael**, K. S. Shaju, “*Electrochemical and Gravimetric Corrosion Inhibition Investigations of a Heterocyclic Schiff Base Derived from 3- Formylindole*”, **IOSR J. Appl. Chem.**, 1-6 (2012) 17
- 5) Aby Paul, K. Joby Thomas, **Vinod P Raphael**, K. S. Shaju, “*Chelating Efficacy and Corrosion Inhibition Capacity of Schiff Base Derived from 3-Formylindole*”, **Oriental J. Chem.**, 28-3 (2012) 1501
- 6) Aby Paul, Joby Thomas K, **Vinod P Raphael**, K. S. Shaju, “*3-Formylindole-4-aminobenzoic Acid: a Potential Corrosion Inhibitor for Mild Steel and Copper in Hydrochloric Acid Media*”, **ISRN Corrosion**, (2012) doi:10.5402/2012/842836
- 7) K. S. Shaju, K. Joby Thomas, **Vinod P Raphael**, Aby Paul, “*Synergistic Effect of KI on Corrosion Inhibition of Mild Steel by Polynuclear Schiff Base in Sulphuric Acid*”, **ISRN Corrosion**, (2012) doi: 10.5402/2012/425878
- 8) K. S. Shaju, K. Joby Thomas, **Vinod P Raphael**, Aby Paul, “*Electrochemical and Surface Morphological Studies of Carbon Steel Corrosion by a Novel Polynuclear Schiff Base in HCl Solution*”, **ISRN Electrochemistry** (2013) doi:10.1155/2013/820548
- 9) Nimmy Kuriakose, Joby Thomas K, **Vinod P Raphael**, Shaju K S, “*Electrochemical Impedance Spectroscopy and Potentiodynamic Polarization Analysis on Anticorrosive Activity of Thiophene-2-carbaldehyde Derivative in Acid Medium*”, **Indian J. Mater. Sci.**, (2014) doi.org/10.1155/2014/124065
- 10) Shaju K S, Joby Thomas K, **Vinod P Raphael**, “*Effect of Iodide on the Corrosion Inhibitive Behaviour on Carbon Steel by an Azomethine Compound Derived from Anthracene-9(10 H)-one*”, **Oriental. J. Chem.**, (in press)

Conference Papers

- 11) **Vinod P Raphael**, Joby Thomas K, Shaju K. S, Aby Paul, “*Electrochemical Investigations on Heterocyclic Hydrazones on Copper in Nitric Acid*”, Proceedings of International Corrosion Prevention Symposium (CORSYM- 2014), held at IIT Bombay on February 20-21, 2014, p. 117
- 12) **Vinod P Raphael**, Joby Thomas K, Shaju K. S, Nimmy Kurialose, “*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 on February 28 – March 02, 2013, p.16
- 13) Shaju K. S, Joby Thomas K, **Vinod P Raphael**, Aby Paul, “*Electrochemical Study and Temperature Effect on Carbon Steel Corrosion by a Novel Polynuclear Schiff Base in HCl Solution*”, Proceedings of International Corrosion Prevention Symposium (CORSYM-2014), held at IIT Bombay on February 20-21, 2014, p. 114
- 14) Aby Paul, K. Joby Thomas, **Vinod P Raphael**, K. S. Shaju, “*Protection of Mild Steel With a Schiff Base Derived from 3-Formylindole in 1.0 M HCl*” Proceedings of International Corrosion Prevention Symposium(CORSYM-2014), held at IIT Bombay on February 20-21, 2014, p. 109
- 15) Aby Paul, Joby Thomas K, **Vinod P Raphael** and Shaju K.S, “*Structural Evaluation and Thermoanalytical Investigations of Mn(II) and Cu(II) Chelates of a Novel Heterocyclic Schiff Base Derived from 3-Formylindole*”, Proceedings of International Conference on Advances in Material Science (ICAMS 2013), held at Sree Sankara College, Kalady, Kerala, 23-24, October 2013, p.147
- 16) 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) held at Sree Sankara College, Kalady, Kerala, 23-24, October 2013, p.136
- 17) Shaju K. S, Joby Thomas K, **Vinod P Raphael**, Aby Paul, “*Inhibition of Carbon Steel Corrosion by A Novel Polynuclear Schiff Base in HCl Solution*”, Proceedings of International Corrosion Prevention Symposium(CORSYM-2013), held at Chennai on February 28 – March 02, 2013, p.13
- 18) K. Joby Thomas, **Vinod P Raphael**, Aby Paul, K. P. Mary, K. S. Shaju, “*Structural Evaluation of Schiff Base Derived from 4-Hydroxy-3-Methoxy Benzaldehyde and its*

Transition Metal Chelates”, Proceedings of 22nd Kerala Science Congress held at Kerala Forest Research Institute, Peechi, 28-31 January 2010, p. 903

- 19) Joby Thomas K, **Vinod P Raphael**, K. S. Shaju, Mary K P, Aby Paul, “*Physicochemical Studies on Co(II), Ni(II) and Cd(II) Complexes of Schiff Base, Vanillin Anthranilic Acid*”, Proceedings of 19th Swadesi Science Congress held in Kerala Agricultural University, Mannuthy on 10-12 December 2009, p. 21
- 20) Joby Thomas K, **Vinod P Raphael**, Shaju K S, Aby Paul, Vidya T K, “*Structural Evaluation and Corrosion Inhibition Studies of a Phenylhydrazone and its Complexes Derived from Furan-2-carboxaldehyde*”, Proceedings of the UGC sponsored National Seminar on ‘Green Strategies in Organic Synthesis’, held in Sree Neelakanta Govt. Sanskrit College, Pattambi on 3 - 4 November 2011, p 55
- 21) Joby Thomas K, Shaju K S, **Vinod P Raphael**, Aby Paul, Mary K P, “*Physico-chemical and Antimicrobial Studies on Copper Complexes of Schiff bases Derived from 4-Hydroxy-3-methoxybenzaldehyde*”, Proceedings of UGC Sponsored National Seminar on ‘Emerging Trends in Biopharmaceuticals’, held in St. Mary’s College, Thrissur on 26 - 27 August 2011, p 39
- 22) Joby Thomas K, Aji C V, **Vinod P Raphael**, Shaju K S, Aby Paul, “*Structural Investigation on 4-Hydroxy-3-methoxybenzylidene-2-amino Benzoic Acid and its’ Fe(III) and Al(III) Complexes*”, Proceedings of the 10th National Seminar on ‘Recent Trends and the Sequels in Chemistry’(RTSE 2011), held in Sacred Heart College, Thevara, Kochi on 7 - 8 December 2011, p 31