

**SHAJU K. S.**

Assistant Professor in Chemistry

**Residential Address**

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**Education and Qualifications**

Degree	Awarded by	Year	Div.
M. Sc (Polymer Chemistry)	University of Calicut	1998	First Class
M. Phil (Chemistry)	University of Calicut	2001	First Class
National Eligibility Test	UGC-CSIR	2001	Qualified for Lectureship
M. Tech. (Industrial Catalysis)	CUSAT, Cochin	2003	First Class, 2 <sup>nd</sup> Rank

**Research Experience:** Seven years**Research Interests:** Corrosion, Electrochemistry, Coordination Chemistry

## **Publications:**

### **(A) in Journals**

1. **"Electrochemical and Gravimetric Corrosion Inhibition Investigations of A Heterocyclic Schiff Base Derived From 3- Formylindole"**, *IOSR Journal of Applied Chemistry (IOSRJAC) Volume 1, Issue 6 (Sep-Oct 2012), PP 17-23.*
2. **"Chelating Efficacy and Corrosion Inhibition Capacity of Schiff Base Derived from 3-formylindole"**, *Oriental Journal Of Chemistry, Volume 28, No.(3), 2012, Pg. 1501-1507.*
3. **"Synergistic Effect of KI on Corrosion Inhibition of Mild Steel by Polynuclear Schiff Base in Sulphuric Acid"** *ISRN Corrosion Volume 2012, Article ID 425878, 8 pages, doi:10.5402/2012/425878.*
4. **"3-Formylindole-4-aminobenzoic Acid: A Potential Corrosion Inhibitor for Mild Steel and Copper in Hydrochloric Acid Media"**, *ISRN Corrosion, Volume 2012, Article ID 842836, 9 pages, doi:10.5402/2012/842836.*
5. **"Spectroscopic and Corrosion Inhibition investigations on Schiff Bases derived from Aromatic Aminosulphonic Acids"**, *ISST Journal of Applied Chemistry, Volume 3, No.(2), July-Dec 2012, Pg. 1-4.*
6. **"Corrosion Inhibition Investigations of 3- acetylpyridine semicarbazone on Carbon Steel in Hydrochloric Acid medium"**, *Research on chemical Intermediates, Volume 39, No.(2), 2013, 12 pages, doi:10.1007/s11164-013-1122-3.*
7. **"Study of synergistic effect of iodide on the corrosion antagonistic behaviour of a heterocyclic phenylhydrazone in sulphuric acid medium on carbon steel"**, *ISRN Corrosion, Volume (2013), 2013, 7 pages, doi:10.1155/2013/390823.*
8. **"Electrochemical and Surface Morphological Studies of Carbon Steel Corrosion by a Novel Polynuclear Schiff Base in HCl Solution"**, *ISRN Electrochemistry, Volume (2013), 2013, 8 pages, doi:10.1155/2013/820548*
9. **"Electrochemical Impedance Spectroscopy and Potentiodynamic Polarization Analysis on Anticorrosive Activity of Thiophene-2-carbaldehyde derivative in acid Medium"**, *Indian Journal of Materials Science, Volume 2014, (2014), 6 pages, doi:10.1155/2014/124065.*

10. **“Effect of Iodide on the Corrosion Inhibitive Behaviour on Carbon Steel by an Azomethine Compound Derived from Anthracene-9(10 H)-one”**, *Oriental Journal Of Chemistry*, Volume 30, No.(2), 2012, Pg. 807-813.

**(B) in Conferences**

1. *“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
2. *“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
3. *“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
4. *“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
5. *“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
6. *“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
7. *“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
8. *“Structural Evaluation of Schiff Base Derived from 4-Hydroxy-3-Methoxy Benzaldehyde and its Transition Metal Chelates”*, Proceedings of 22<sup>nd</sup> Kerala Science Congress held at Kerala Forest Research Institute, Peechi, 28-31 January 2010, p. 903
9. *“Physicochemical Studies on Co(II), Ni(II) and Cd(II) Complexes of Schiff Base, Vanillin Anthranilic Acid”*, Proceedings of 19<sup>th</sup> Swadesi Science Congress held in Kerala Agricultural University, Mannuthy on 10-12 December 2009, p. 21

10. “*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
11. “*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
12. “*Structural Investigation on 4-Hydroxy-3-methoxybenzylidene-2-amino Benzoic Acid and its’ Fe(III) and Al(III) Complexes*”, Proceedings of the 10<sup>th</sup> 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

**Teaching Experience:** 7 years

**Memberships in Professional bodies**

Member, National Association of Corrosion Engineers, USA

Unit Secretary, All Kerala Govt. College Teachers Association

**Awards & Achievements:** Best paper award “*Protection of Mild Steel With a Schiff Base Derived from 3-Formylindole in 1.0 M HCl*”, International Corrosion Prevention Symposium (CORSYM-2014), held at IIT Bombay on February 20-21, 2014, p. 109