Name : Capt. Dr.Arun. V

Designation : Assistant Professor,

Department Of Chemistry

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Educational Qualification : M.Sc.; B.Ed., Ph.D.; Post doc

Area Of Interest : Material Science, Coordination Chemistry, Catalysis, Crystal Structure, Computational Chemistry etc.

Specialisation : Queer theory

Research Experience :

**PUBLICATIONS:**

1. **Arun. V**; Manoj SV and Ambili Raj DB (2021): Synthesis and Spectral Characterization Copper(II) Schiff Base Complex Derived from 3-hydroxyquinoxaline-2-carboxaldehyde. Bulletin of Pure and Applied Sciences, Vol. 40C (Chemistry), No. 2, July-December 2021, 90-95.
2. **Lt. Dr.Arun. V;** Quinoxaline Schiff base Complexes and their catalytic activity studies, **2016**; **ISBN Number 978-3-659-79469-8**
3. **Arun, V.**, Preetha. G.P., Manju, S., Biju, A.R., and Yusuff, K.K.M. (2011): Hydrogen bonded triple helical structure of 3-hydroxyquinoxaline-2-carboxalidine-4-aminoantipyrine. Journal of chemical crystallography **41**, 1013-1017
4. Sebastian, M., **Arun, V.**, Robinson, P.P., Leeju, P., Varghese, D., Varsha, G., and Yusuff, K. K. M. (2011): Template synthesis and spectral characterization of some Schiff base complexes derived from quinoxaline-2-carboxaldehyde and L-histidine. Journal of Coordination Chemistry **64**, 525-533
5. **Arun, V.**, Mathew, S., Robinson, P.P., Jose, M., Nampoori, V.P.N., and Yusuff, K.K.M. (2010): The tautomerism, solvatochromism and non-linear optical properties of fluorescent 3-hydroxyquinoxaline-2-carboxalidine-4-aminoantipyrine. Dyes and Pigments **87,** 149-157
6. **Arun, V.**, Robinson, P.P., Manju, S., Leeju, P., Varsha, G., Digna, V., and Yusuff, K.K.M. (2009): A novel fluorescent bisazomethine dye derived from 3-hydroxyquinoxaline-2-carboxaldehyde and 2,3-diaminomaleonitrile. Dyes and Pigments **82**, 268-275
7. **Arun, V.**, Sridevi, N., Robinson, P.P., Manju, S., and Yusuff, K.K.M. (2009): Ni(II) and Ru(II) Schiff base complexes as catalysts for the reduction of benzene. Journal of Molecular Catalysis A: Chemical **304**, 191-198
8. Sebastian, M., **Arun, V.**, Robinson P. P., Varghese A. A., Abraham R., Suresh E., Yusuff, K. K. M. (2010): Synthesis, structural characterization and catalytic activity study of Mn(II), Fe(II), Ni(II), Cu(II) and Zn(II) complexes of quinoxaline-2-carboxalidine-2-amino-5-methyl phenol: Crystal structure of the nickel(II) complex. Polyhedron **29**, 3014-3020
9. Varsha, G., **Arun, V.**, Robinson, P.P., Sebastian, M., Varghese, D., Leeju, P., Jayachandran, V.P., and Yusuff, K.K.M. (2010): Two new fluorescent heterocyclic perimidines: first syntheses, crystal structure and spectral characterization. Tetrahedron Letters **51**, 2174−2177
10. Sebastian, M., **Arun, V.**, Robinson, P.P., Leeju, P., Varghese, D., Varsha, G., and Yusuff, K. K. M. (2010): Synthesis, characterization and the crystal structure of a new cobalt(II) Schiff base complex with quinoxaline-2-carboxalidine-2-amino-5-methylphenol. Journal of Coordination Chemistry **63**, 307-314
11. Robinson, P.P., **Arun, V.**, Manju, S., Aniz, C.U., and Yusuff, K.K.M. (2010): Oxidation kinetics of nickel nano crystallites obtained by controlled thermolysis of diaqua-bis(ethylenediamine)nickel(II) nitrate. Journal of Thermal Analysis and Calorimetry. 100, 733-740
12. Sebastian, M., **Arun, V.**, Robinson P. P., Yusuff, K. K. M. (2010): Metal-induced rearrangement of benzothiazoline ring: Synthesis and characterization of transition metal complexes of an ONS-donor Schiff base. Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, **40**, 541-547
13. Varghese, D., **Arun, V.**, Sebastian, M., Leeju, P., Varsha, G., and Yusuff, K.K.M. (2009): N,N’-Bis[(E )-quinoxalin-2-ylmethylidene]ethane-1,2-diamine. ActaCrystallographica Section E **E65**, o435
14. Varsha, G., **Arun, V.**, Sebastian, M., Leeju, P., Varghese, D., and Yusuff, K.K.M., (2009): (Z)-2-Amino-3-[(E)-benzylideneamino]-but-2-enedinitrile. ActaCrystallographica Section E **E65**, o919
15. Leeju, P., **Arun, V.**, Sebastian, M., Varsha, G., Varghese, D., and Yusuff, K. K. M. (2009): N-[(E)-Quinoxalin-2-ylmethylidene]-1Hindazol-5-amine. ActaCrystallographica Section E **E65**, o1981
16. Varghese, D., **Arun, V.**, Robinson, P.P., Sebastian, M., Leeju, P., Varsha, G., and Yusuff, K. K. M. (2009): Two novel bis-azomethines derived from quinoxaline-2-carbaldehyde. ActaCrystallographica Section C **C65**, o612–o614

**PRESENTATIONS:**

1. Oral Presentation:Presented a paper entitled“Catalytic hydroxylation of phenol with H2O2 by a binuclear copper (II) complex of NN' bis(3-hydroxyquinoxaline-2-carboxalidibe)2,3-diaminomaleonitrile” By **V. Arun** and K.K. M. Yusuff in the International Conference in the Emerging trends in Computational and Material Chemistry Research(ICCMCR-2020) organised by Research and Post graduate department of chemistry & Polymer Chemistry of KSMDB College, Sasthamcotta, Kerala, India, on 9th to 12 Nobember 2020.
2. Oral Presentation: Presented a paper entitled “Oxovanadium(IV) heterocyclic Schiff base complex: Synthesis, spectral investigation and catalytic activity in cyclohexane oxidation” By **V. Arun** and K.K. M. Yusuffin the UGC sponsored national seminar on “Advances in the Frontier Areas of Chemical Sciences (NSAFC-2016) organised by the Department of Chemistry, St. John’s College, Anchal on 09th and 10th November **2016.**
3. Oral Presentation: Presented a paper entitled “Phenol hydroxylation with hydrogen peroxide catalysed by a binuclear copper(II) Schiff base complex catalyst by **V. Arun**, NithaPrabha and K.K. M. Yusuffin the two day National Seminar sponsored by the Kerala State Council For Science Technology and Environment (KSCSTE) at Post Graduate and Research Department of Chemistry, S.N. College, Kollam 691 001, from 29th and 30th June **2016**
4. Oral Presentation: Presented a paper entitled “Hydroxylation of phenol with hydrogen peroxide catalyzed by a new binuclear copper(II) Schiff base complex derived from 3-hydroxyquinoxaline-2-carboxaldehyde” by **V. Arun** and K. K. M. Yusuff, in the UGC sponsored national seminar on Nano Material for Energy Applications at P.G. Department of Physics, S.N. College, Punalur-691 305, from 7th and 8thJanuary*,* **2016**
5. Oral Presentation**:** Presented a paper “Synthesis and characterization of a new fluorescent material: N,N’-bis(3-hydroxyquinoxaline-2-carboxalidene)-1,8-diaminonaphthalene” in the UGC Sponsored **Refresher Course** for University/College Teachers conducted by, the UGC-HRDC, Kariavattom, Thiruvananthapuram from **28-05-2015 to 17-06-2015**
6. Oral Presentation**:** Presented a paper *“*A comparative study of common ions present in branded and handmade tooth paste by simple laboratory analysis” in the UGC Sponsored **Orientation Programme (IT oriented)** for University/College Teachers conducted by, the UGC-Academic Staff College, University of Kerala, Kariavattom, Thiruvananthapuram from **14-10-2014 to 10-11-2014**
7. Short Presentation: on “FTIR Spectroscopy-One of many tools to predict the coordination in transition metal Schiff base complexes” by **Dr. V. Arun**-UGC sponsored national conference on “Recent Advances in Spectroscopy: A Chemical and Biological Perspective” held at the Post Graduate Department of Chemistry, Newman College, Thodupuzha, Idukki- 685 585, Kerala, India, on February 28- March 2, 2013
8. Oral Presentation: on “A new ruthenium(II) Schiff base complex as efficient catalyst precursor for toluene hydrogenation” by **Dr. V. Arun**- National Seminar on “Current Trends in Chemistry” (CTriC 2014) organized by the Department of Applied Chemistry, Cochin University of Science and Technology, Cochin- 682 022, Kerala, India, from 18th and 19th January 2004

**Research Students**

1. **SHIJU THOMAS**, Part-Time, Assistant Professor, Department of Chemistry, St. Gregorios College, kottarakkara (UO No. AcEVI(2)/116/CHE/13801/2016 dated 24-10-2016 with effective date of registration 17-10-2016.
2. **BARAKALA PUSHPA,** Part-Time- Assistant Professor, Department of Chemistry, St. Joseph’s College for Women, Alappuzha (UO No. AcE.VI(2)/717/CHE/16321/2017 dated 03-02-2018) with effective date of registration 09-01-2018.
3. **NEETU PRADEP,** Part-Time- Assistant Professor, Department of Chemistry, S. N. College, Punalur (UO No. AcE.VI(2)/717/CHE/16115/2017 dated 03-02-2018) with effective date of registration 04-01-2018.
4. **RAJI. V,** Part-Time- Assistant Professor, Department of Chemistry, S. N. College, Punalur(UO No. AcE.VI(2)/718/CHE/17519/2018 dated 04-02-2019) with effective date of registration 06-12-2018.