Biodata

Dr. K. Nagashri

Assistant Professor, Department of chemistry

Manonmaniam Sundaranar University, Tirunelveli-12

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Academic Profile

Year of Passing	Name of the University/ Institution
2013	Doctor of Philosophy Department of Chemistry Noorul Islam Centre for Higher Education, Kumaracoil.
2009	Master of Science in Pharmaceutical Chemistry Department of Pharmaceutical Chemistry Manonmaniam Sundaranar University, Tirunelveli-627 012.
2007	Bachelor of Science in Chemistry Department of Chemistry The Standard Fireworks Rajaratnam College for Women Sivakasi.

Research Interests

Designing and developing of new chemical entity related OLED

Medicinal Chemistry & Infectious Disease

Project Experience

Company **:** Syngene International Ltd., Biocon Park, Bangalore-560 099

Title : Synthesis and Utilization of Chlorophenyl derivatives in Buchwald-Hartwig Coupling

Ph. D.,

Title : Synthesis, characterization and Pharmacological studies of copper complexes derived from flavone derivatives

Research Guide : Dr.J.Joseph
Asst. Professor, Department of Chemistry
Noorul Islam Centre for Higher Education, Kumaracoil

Designation : DST INSPIRE FELLOW

Honour/ Award

- Scored First Rank in Master degree in university level.
- **DST INSPIRE fellowship as JRF** for doctoral studies from August 2010 to July 2012
- **DST INSPIRE fellowship as SRF** for doctoral studies from July 2012 to September 2013.
- Summer research fellowship programme offered by science academics (INSA, NASI & IISc, Bangalore) for a period two months under the guidance of **Dr.Suresh Das, Director, NIIST, Trivandrum.**
- **Best innovation award during** year 2020 honored by Department of Chemistry, Noorul Islam Centre for Higher Education, Kumaracoil.

Funds received

- Science and Engineering Research Board (SERB) had funded Rs. 2558000/- "Synthesis, structures and cytotoxicity studies on simple and mixed ligand copper(II) complexes of certain Hydroxyflavones" under the scheme DST SERB from Nov 2015- Nov 2018.
- Science Academics lecture workshop on developments in chemistry funded by science academics, Bangalore (Rs 1,75,000/-) during 05.07.2018 & 06.07.2018.
- INSPIRE INTERNSHIP SCIENCE Camp organized for XI Students to create science awareness of Rs 9,75,000 during October 18th -22nd , 2019 funded by DST, NewDelhi.

Supervision of candidates for Research

M.Sc	39(completed)
Ph.D	1 (ongoing)
	4(Awarded)

Invited Talk:

- As a Resource person and delivered guest lecture on June 17, 2019, titled "Higher studies and research," which was organized by the PG & Research Department of Chemistry at SFR College for Women.
- Delivered a guest lecture on February 3, 2024, titled "Chemistry Frontiers: Exploring Recent Trends and Innovations," which was organized by the PG & Research Department of Chemistry at SFR College for Women.
- As a Resource person and Delivered a Guest Lecture entitled "Free Radicals in Daily Life" Organized by Department of Chemistry, G. Venkataswamy Naidu College on 15-02-2024.

Patent filled

Design No : 382187-001

Date : 24/03/2023

Title : IOT based solar assisted water purification system for purifying borewell water

Publications

Scopus ID : 37124550100

Orcid ID : 0000-0002-4988-2476

Google scholar ID : 5qTYgYEAAAAJ

Web of Science Researcher ID: ABS-7273-2022

Paper Published	29
Citations	347
h-Index	8

1. Copper(II) complexes of hydroxyflavone derivatives as potential bioactive molecule to combat antioxidants: synthesis, characterization and pharmacological activities
   K. Nagashri, J. Joseph
   Applied Organometallic chemistry 2011,25,704-717. (IF Value – 3.7)
2. Novel metal based anti-tuberculosis agent: Synthesis, characterization, catalytic and pharmacological activities of copper complexes
   J Joseph, K Nagashri, GB Janaki
   European journal of medicinal chemistry 49, 151-163, 2012 (IF –value- 7.088)
3. Highly conjugated curcumin analog based copper complexes towards tuberculosis: synthesis, characterization and antimycobacterial activity
   J Joseph, GB Janaki, K Nagashri, RS Joseyphus, CJ Dhanaraj
   BMC Infectious Diseases 12 (1), 1-1, 2012 (IF Value - 7.25)
4. Novel copper-based therapeutic agent for anti-inflammatory: synthesis, characterization, and biochemical activities of copper (II) complexes of hydroxyflavone Schiff bases
   J Joseph, K Nagashri
   Applied biochemistry and biotechnology 167 (5), 1446-1458, 2012
   (IF Value- 3.094)
5. Synthesis, characterization and antimicrobial activities of copper complexes derived from 4-aminoantipyrine derivatives
   J Joseph, K Nagashri, GAB Rani

Journal of Saudi Chemical Society 17 (3), 285-294, 2013 (IF value- 4.712)

6. Synthesis, characterization and pharmacological studies of copper complexes of flavone derivatives as potential anti-tuberculosis agents
   J Joseph, K Nagashri, A Suman
   Journal of Photochemistry and Photobiology B: Biology 162, 125-145, 2016
   (IF Value- 6.814)
7. Pharmacological and spectral studies of synthetic biomimetic copper complexes derived from 3-hydroxyflavone derivatives as anti-inflammatory agents
   K Nagashri, J Joseph, CJ Dhanaraj
   Arabian Journal of Chemistry 9, S548-S556, 2016 (IF Value-6.212)
8. Antimicrobial, antioxidant and SOD activities of copper (II) complexes derived from 2-aminobenzothiazole derivatives
   J Joseph, GB Janaki, K Nagashri, RS Joseyphus
   Journal of Coordination Chemistry 70 (2), 242-260, 2017 (IF Value-1.869)
9. Synthesis, characterization and biological studies of copper (II) complexes with 2-aminobenzimidazole derivatives
   J Joseph, A Suman, K Nagashri, RS Joseyphus, N Balakrishnan
   Journal of Molecular Structure 1137, 17-26, 2017 (IF Value-3.841)
10. Multifunctional 1,10-phenanthroline derivative and its metal complexes as an anti-Alzheimer's agent: structure-based drug design, synthesis, characterization and pharmacological studies
    EHE Gladis, K Nagashri, A Suman, J Joseph
    Journal of Coordination Chemistry 73 (23), 3267-3290, 2020 (IF Value-1.869)
11. Design, synthesis, characterization, DNA binding, acetyl and butyryl cholinesterase activities of metal chelates with 1, 10-Phenanthroline derivative
    EHE Gladis, K Nagashri, J Joseph
    Inorganic Chemistry Communications 122, 108232, 2020 (IF Value-3.428)
12. Determination of ammonia content in various drinking water sources in Malappuram District, Kerala and its removal by adsorption using agricultural waste materials
    J Joseph, AK Sajeesh, K Nagashri, EHE Gladis, TM Sharmila,
    Materials Today: Proceedings 45, 811-819, 2021 (IF Value-2.59)

13. Novel mixed Ligand Copper(I) Complex as emitter enables high-performance OLED's with very low efficiency roll- off.
    N.Keerthi, K.Nagashri
    Journalof European Chemical Bulletin 2021, 10 (Issues 4)365-376
    (IF Value-0.179)
14. Highly conjugative heterocyclic nitrogen base derivative and its metal complexes towards optoelectronic materials: Chemical architecture, synthesis, structural elucidation, catalytic, optoelectronic and pharmacological studies
    EHE Gladis, K Nagashri, J Joseph
    Materials Today: Proceedings 45, 906-911, 2021 (IF Value-2.59)
15. Novel synthesised chrysin derivatives offer noteworthy insight into the structural scaffolds required for improved anti-proliferative activity
    B Ebenezer, K Nagashri, A Suman, J Joseph
    Materials Today: Proceedings 45, 1039-1043, 2021 (IF Value-2.59)
16. Enhancing the therapeutic efficacy of copper-based multifunctional agents by incorporating 1, 10-Phenanthroline derivative as chelator
    EHE Gladis, K Nagashri, JMA Jose, D Arthi, J Joseph
    Materials Today: Proceedings 45, 1887-1892, 2021 (IF Value-2.59)
17. Synthesis, characterization and biochemical studies of redox active metal complexes with flavone derivative
    JRR Krishna, JMA Jose, EHE Gladis, K Nagashri, J Joseph
    Materials Today: Proceedings 45, 2046-2052, 2021 (IF Value-2.59)
18. Transition metal chelates with multifunctional 1,10-phenanthroline derivative towards production of hydrogen as alternative fuel from sea water: Design, synthesis, characterization and catalytic studies
    EHE Gladis, K Nagashri, J Joseph
    International Journal of Hydrogen Energy 46 (9), 6573-6587, 2021
    (IF Value- 7.139)
19. Synthesis and *in vitro* biochemical properties, DNA binding and DNA cleavage ability of copper complexes of hydroxyflavone derivatives of novel organosulfur compounds as therapeutic agent

B. Ebenezer & K. Nagashri

Journal of Nucleosides, Nucleotides and Nucleic Acids, Volume 40, 2021 - Issue 12

(IF Value – 1.1)

20. Synthesis, structural elucidation, DNA binding, cleavage, AChE and BuChE cholinesterase efficiencies of metal complexes with 1,10-phenanthroline scaffold

    E. H. Edinsha Gladis, K. Nagashri & A. Krishnendu

    ECS Transactions, volume 107, 11-13 (IF Value – 0.6)

21. In Vitro biological evaluations of copper complexes: Phenyl-quinoline derivatives of novel organoselenium compounds as therapeutic agent.

    P. Moohambihai a, K. Nagashri

    Chemistry & Biology Interface, 2022, 12, 1, 15-32 (IF Value-4.2)

22. In vitro evaluations of antimicrobial, cytotoxicity, DNA binding, cholinesterase studies of copper complexes with phenyl-selanyl ligands

    P Moohambihai & K Nagashri

    Indian Journal of Chemical Technology, 29, July 2022, pp. 367-379

    (IF Value - 0.76)

23. Synthesis, structural elucidation, DNA binding, cleavage, AChE and BuChE cholinesterase efficiencies of metal complexes with 1,10-phenanthroline scaffold

    E. H. Edinsha Gladis, K. Nagashri & A. Krishnendu

    Nucleosides, Nucleotides & Nucleic acids, Volume 41, 2022- Issue3

    (IF Value – 1.1)

24. Abnormal synergistic behavior of metal chelates of 1,10-phenanthroline scaffold for enhancing hydrogen evolution from water

    EHE Gladis, K Nagashri, M Anisha, J Joseph

    International Journal of Hydrogen Energy, Volume 47, Issue 31, 2022, 14331-1433

    (IF value- 7.139)

25. Biosorption of Rubber Seed Shell as a Waste Material in the Removal of Cadmium Ion from Contaminated Water

    E H Edinsha Gladis, K Nagashri and Joseph J

    Journal of ECS publications, 2022, 107 18497 (IF Value – 4.371)

26. Synthesis and in vitro Biological Studies of Copper Complexes Derived from Some novel Hetero-Organoselanylquinoline Ligands.

Moohambihai, P.; Nagashri, K.

Journal of Scientific Research . 2022, Vol. 14 Issue 2, 641-658. (IF Value- 4.003)

27. In vitro and in vivo biochemical activities of novel copper complexes of chrysin derivatives of organosulfur compounds based potential therapeutic agent: design, synthesis, characterization and pharmacological studies

    B Ebenezer, K Nagashri. Research Square. 26 July 2022.

28. Synthesis, characterisation, DNA binding, acetylcholinesterase (AChE) and butyrylcholinesterase (BuChE) activities and molecular docking studies of metal(II) complexes with 1,10-phenanthroline scaffold.

    E. H. Edinsha Gladis, K. Nagashri, M. Anisha,& J. Joseph

    Journal of biomolecular structure and dyanamics, Volume 41, 2023 - Issue 11

    (IF Value - 5.235)

29. Mixed Ligand Copper(I) Complexes as Emitters Enable Higher OLED Device Performance for Energy –Harvesting Applications

    Nagashri kandasmy, Nandakumar Keerthi and Joseph Jeyasekaran.

    Journal of applied Electronic Maaterials,2023 (IF Value – 4.4)

Paper presented(last 6 years)

- Presented a paper International conference on recent trends in Chemical Science, Govt. Engineering College, Bikaner, Rajasthan during 12-13 Jan. 2017.
- Presented a invited talk in International conference on Molecular Spectroscopy 2017 by Mahatma Gandhi University, Kottayam during 8-10th December 2017
- Presented a paper in 24th ISCB International Conference on Frontier research in Chemistry and biology interface by Manipal University, Jaipur and Indian Society of Chemists & biologists, Lucknow during 11-13th January 2018
- Presented a paper in Second National Conference on Emerging Trends in Applied Sciences and Technology by Noorul Islam Centre for higher education on 28th February 2018.
- Presented a paper in National Conference on Advanced Materials at the interfaces of Energy, Environment & Medicine during 21-23th February 2018.
- Presented a paper in International Conference on Advances in Materials Research - ICAMR 2019, Dec 6–7 December 2019.

- Presented a paper entitled “Synthesis , characterization, DNA binding, AchE &BuChE Cholinesterase efficiencies of metal complexes with Quinoxaline derivative” in International conference on Chemistry and Allied Sciences by Pingle Governmebt college for Women, Hanumakonda during 25-27 August 2022.
- Presented a paper entitled “Design, synthesis, structural Elucidation, AChE and BuChE Cholinesterease efficiencies of metal complexes with Quinoxaline derivative” in International conference on Frontiers in chemistry and material science by Mannar Thirumalai Naicker College,Madurai on 19th &20th December 2022.
- Presented a paper entitled “Synthesis ,characterization and pharmacological studies of metal complex with quinoxaline derivative” in International conference on developments in drug delivery by Karpagam College of Pharmacy, Coimbatore on 27th & 28th February 2023.
- Presented a paper entitled “Synthesis , Characterisation& biological activities of metal complexes with 2,3- dihydrazineylquinoxaline in International conference in science and technologies for sustainable development by Noorul Islam Centre for Higher Education, Kumaracoil on 10th May 2023.
- Participated in “International Conference on Advanced Nanomaterials for energy, Environment and Health care applications and presented a paper entitled Mannitol derived from Seaweed bomass as substrate for clean energy Biohydrogen Production” organized by Department of Chemistry, GTN College and ANEH Scientific Foundation during 21-23 , August , 2024.