



Dr. S. KARTHIK , M. Sc., Ph. D

Assistant Professor, Department of Chemistry

KSR College of Arts And Science For Women , Tiruchengode , Namakkal (Dt)



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Namakkal



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TECHNICAL SKILLS

- Microsoft Office
- Origin and Chem Draw Ultra
- UV Spectrscopy

EXPERTISE

- Spectroscopy
- Chromatography
- Physical Chemistry
- Inorganic Chemistry
- Environmental Studies

LANGUAGE

- Tamil - Native
- English - Proficient

CAREER OBJECTIVE

Aspiring to build a dynamic career in a growth-driven organization, where I can leverage my skills and knowledge. Focused on continuous learning, professional growth, and delivering meaningful contributions through dedication, adaptability, and collaboration.

EDUCATION

Ph. D Chemistry - Highly Commended

(2022) Kandaswami kandar's College

M.Sc Chemistry - 80%

(2016) Kandaswami kandar's College

B. Sc Chemistry - 74%

(2014) Kandaswami kandar's College

EXPERIENCE

Versatile teaching professional with 3-year engagement at
KSRCASW

RESPONSIBILITIES

- Assistant Professor in KSRCASW
- Admission Coordinator in KSR Educational Institution

PROJECTS

- M.Sc project entitled "Synthesis of mixed ligand Schiff base metal complexes, characterization and evaluation of its biological activities" had been done at Department of Chemistry, Kandaswami Kandar's College, Velur, Namakkal in the year 2015-2016.
- Ph.D Project entitled "Synthesis, Spectroscopic Characterization, Biocidal, Anti-Diabetic, Anti-Inflammatory and Anti-Cancer (MCF-7) Studies of Novel Schiff Base Ligands and Their Metal(II) Complexes" had been done at Department of Chemistry, Kandaswami Kandar's College, Velur, Namakkal in the year 2016-2022.

PUBLICATIONS

- S. Karthik, T. Gomathi and S.Vedanayaki, "Synthesis, Characterization and Antimicrobial, Anti-inflammatory, Anti-Diabetic and Anti-Cancer Activities of Metal(II) Complexes with [N,N'-(butane-1,4-diyl)bis(1-(2,3-dimethoxyphenyl)methanimine)]with 8-hydroxyquinoline", International Journal of Pharmacy & Technology, Vol. 12, No. 3 (2020), 32260 - 32278.
- S. Karthik, T. Gomathi and S.Vedanayaki "Synthesis, Characterization, Biocidal, Anti-diabetic, Anti-inflammatory and Anti-Cancer(MCF-7) Studies of Schiff base Ligand and its Metal(II) Complexes", Oriental Journal of Chemistry, Vol. 37, No. 1 (2021), 58 - 64.
- S. Karthik, T. Gomathi and S.Vedanayaki, "Synthesis, characterization, biological activities of Schiff base metal(II) complexes derived from 4-hydroxy-3,5-dimethoxybenzaldehyde and 3-aminoquinoline", Indian Journal of Chemistry section-A, Vol. 60A, No.11 (2021), 1427 - 1436.
- T.Gomathi, S.Karthik and S.Vedanayaki., "Synthesis, Characterization, Antimicrobial, Anti-Inflammatory, Anti-Diabetic and Anti-Cancer Studies on Co(II), Ni(II), Cu(II) and Zn(II) complexes derived FROM (1E,4E-N1,N4-di(quinolin-3-yl)cyclohexa-2,5-diene-1,4-diimine) with 8-Hydroxyquinoline", International Journal of Pharmacy & Technology, Vol. 12, No. 3 (2019), 32235-32259.
- T.Gomathi, S.Karthik and S.Vedanayaki, "Synthesis, characterization and biological studies on Co(II), Ni(II), Cu(II) and Zn(II) complexes derived from 4-(2-amino ethyl) benzene-1,2-diol and 1,4 benzoquinone", Indian Journal of Chemistry section-A, Vol 60, No 1 (2021), 26-36.
- T.Gomathi, S.Karthik and S.Vedanayaki "Synthesis, characterization, antimicrobial, anti-inflammatory and anti-diabetic activity studies on metal (II) complexes derived from 4-(2-aminoethyl)benzene-1,2-diol and butane-2,3-dione", International Journal of Pharmaceutical Research, Vol. 13, No. 3 (2021), 20-31.

- T.Gomathi, S.Karthik and S.Vedanayaki “Synthesis, Spectral, Electrochemical and Biological Studies on Co(II), Ni(II), Cu(II) and Zn(II) Complexes Derived from 4-(2-Aminoethyl)benzene-1,2-diol and Terephthalaldehyde” Asian journal of Chemistry, Vol. 34, No. 6 (2022), 1373 - 1382.
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PAPER PRESENTED

- Presented a paper on the “Synthesis, Characterization and Antimicrobial, Anti-inflammatory Activities of metal(II) complexes with [(E)-1-(2,5-dimethoxyphenyl)-N-(quinolin-3-yl)methanimine]” in the International Conference on Current Stream in Chemical Research (ICCSCR-2019) organized by Department of Chemistry, Government Arts College, Dharmapuri held on 20th December 2019.
 - Presented a paper on the “Synthesis, Characterization and Antimicrobial, Anti-inflammatory activities of Co(II), Mn(II), Cu(II) and Zn(II) Complexes with [N,N'-(butane-1,4-diyl)bis(1-(2,3-dimethoxyphenyl)methanimine)]” in the International Conference on Chemical and Environmental Research (ICCER-2020) organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli held on 8th January 2020.
 - Presented a paper on the “Synthesis, Characterization and Antimicrobial, Anti-inflammatory Activities of metal(II) complexes with [(E)-2,6-dimethoxy-4-((quinolin-3-ylimino)methyl)phenol] ” in the International Conference on Emerging Trends in Materials for Energy and Biological Applications (ICEMEBA-2020) organized by Department of Science and Humanities, M.Kumarasamy College of Engineering, Karur held on 7th March 2020.
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CONFERENCE, SEMINAR, WORKSHOP ATTENDED

- Participated in International Conference on Chemical and Environmental Research (ICCER 2017) organized by Department of Chemistry, Jamal Mohamed College (Autonomous) Tiruchirappalli, held on 7th January 2017.
- Participated in National Conference on Recent Advances in Chemistry Research and its Applications (NCRACRIA - 17) organized by Department of Chemistry, St. Joseph College (Autonomous) Tiruchirappalli, held on 19th January 2017.
- Participated in National level workshop on Art of Writing a Report, Research paper and Thesis organized by Sri Ramakrishna Engineering College, Coimbatore held on 13th – 14th August 2018.

- Participated in International Conference on Research Initiatives in Chemistry for Sustainable Development (RICS -2019) organized by Department of Chemistry, The Gandhigram Rural Institute – Deemed to be University, Dindigul held on 18th- 19th March 2019.
- Participated in National level workshop on Nuclear Magnetic Resonance Spectroscopy (WNMRS- 2019) organized by Department of Chemistry, The Gandhigram Rural Institute – Deemed to be University, Dindigul held on 22th-23rd March 2019.
- Participated in State Level workshop on Micro level Analysis of Chemical Substances (MACS – 2020) organized by Department of Chemistry, Kandaswami Kandar's College, Namakkal held on 29th February 2020.
- Participated in DST – PURSE sponsored Webinar on Advances in Biomedical Technology organized by Department of Nanoscience and Technology, Bharathiar University, Coimbatore held on 2nd – 3rd November 2020.
- Participated in Professional Development Workshop for Science Stream Research Scholars of Periyar University on Excellence in Science Stream Doctoral Research organized by Swayam cell, Periyar University, Salem held on 4th November 2020.
- Participated in National Webinar on Energy Materials & Devices organized by Department of Physics and Chemistry, Sona College of Arts and Science, Salem held on 16th January 2021.
- Participated in National Webinar on Patenting of biotechnological inventions in india organized by Guru Nanak Center for Research (GNCR), Guru Nanak College (Autonomous), Chennai held on 29th January 2021.
- Participated in International e-Conference on Recent Developments in Organic and Inorganic Materials organized by Department of Chemistry, Thiruvalluvar University, Vellore held on 10th April 2021.
- Participated in One Day National Level Seminar On “Future Trends of Biodegradable Packing In Food Industry”, Organized by the Department of Chemistry, Kongunadu College Of Engineering and Technology (Autonomous), Trichy, Tamilnadu on 10.06.2022.

- Participated in Seven Days Faculty Development Programme on “MODERN PEDAGOGICAL TOOLS FOR EFFECTIVE TEACHING”, Organized by the Internal Quality Assurance Cell(IQAC) of K.S.R College of Arts and Science for Women, Tiruchengode From 21.07.2022 to 29.07.2022
- Participated in Six Days online international faculty Development Program on Recent Trends in Applied Physics, Organized by Department of Physics, Easwari Engineering College(Autonomus), Chennai on 25.07.2022 to 30.07.2022.
- Participated in webinar on Synthesis and Biological Evaluation of Novel Carbazoles, Offered by Green Pharmaceutical initiative, on 16.08.2022
- Participated in webinar on Art of Writing Research Proposals and Various Funding Opportunities, Organized by Department of Science and Humanities, RVS Technical Campus-Coimbatore on 29.08.2022.
- Participated in Eight Days online Faculty Development Program on “Research, Publication and Patent in Humanities and Sciences”, Organized by Department of English and other Foreign Languages, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 22.08.2022 to 30.08.2022.
- Participated in Two Days International Workshop on “Recent Trends in Nuclear Science & Material Science”, Organized by Department of Physics, Marathwada Shikshan Prasarak Mandal’s Arts, Commerce and Science College, Kille-Dharur on 5th & 6th September 2022.
- Participated in International Faculty Development Program on “Foremost Frontiers of Material Science”, Organized by Department of Physics, Sathyabama Institute of Science and Technology, Chennai through zoom video communication from 12.09.2022 to 20.09.2022.
- Participated in One Day International Webinar on “Advanced Functional Materials”, Organized by PG & Research Department of Physics, Gonzaga College of Arts and Science for Women, Krishnagiri, Tamilnadu on 28th September 2022.
- Participated in National Level Workshop on “Greener & Safer Chemistry Labs” organized by PG Department of Chemistry, Kanya Maha Vidyalaya, Jalandhar on 22th October 2022.

- Participated in International Online Faculty Development Program (FDP) on “Current Scenario in Advanced Material Research and Nanotechnology” organized Department of Physics, Rajapalayam Rajus’ College, Rajapalayam, on 21th – 25th November 2022.
- Participated in Five days Second International Online Faculty Development Program (FDP) on “Recent Research in Material Physics and Nano Devices” organized Department of Physics, Rajapalayam Rajus’ College, Rajapalayam on 14th – 18th November 2022
- Participated in International Webinar on “Solar Photovoltaics for Sustainable Future” organized Centre for Research and Education in Social Integration and HR Development, Bharat Institute of Engineering and Technology and Indian Ceramic Society, Hyderabad on 24th December 2022.

DECLARATION : I hereby declare that the above-mentioned information is true to the best of my knowledge and belief.