

**JSS College for Women (Autonomous),
Saraswathipuram, Mysuru-09**

Profile

Sl. No	Particulars	Details
Personal Information		
1.	Name and Designation	Dr. E. VIJAYA SEKHAR
2.	Department	PG Department of Chemistry
3.	Education Qualification	M.Sc, Ph.D
4.	Email Address	vijaysekhare@gmail.com
5.	Experience	10 years
Research and Development		
6.	Conferences Attended	25
7.	Training Programs attended	04
8.	Research Interests	Coordination chemistry and Bioinorganic chemistry
9.	Research and Development project Proposal submitted	01
10.	List of Research Publications:	15
11.	List of Book chapters Published:	03

Recent Publications: (2021-2022)

<u>S.NO</u>	<u>Title of the Paper Journal</u>	<u>Journal/ Publication</u>	<u>Year</u>
1.	2-(4-nitrophenyl)iminomethyl phenol Schiff base metal complexes: Synthesis, spectroscopic characterization; anticancer and antimicrobial studies	Inorganic and Nano metal chemistry	2022
2.	Synthesis, characterization, and biological evaluation of some 4-((thiophen-2-yl-methylene)amino)benzene sulfonamide metal complexes.	<i>Beni-Suef Univ J Basic Appl Sciences</i> Springer Publication	2021
3.	Rapid response in recovery time, humidity sensing behavior and magnetic properties of rare earth(Dy & Ho) doped Mn–Zn ceramics	Ceramics International Elsevier	2021
4	Synthesis, Characterization and Anti cancer activity of Piperzine Amide derivative	International Journal of Pharmaceutical sciences and research.	2021

Book Chapters

<u>S.NO</u>	<u>Title of the Book chapter</u>	<u>Publication</u>
1.	Structural Activity Relationship and in-silicomethods in drug design	Banthen Science publication
2.	Synthesis of Sulfadiazine and Sulfisoxazole Guanidine Derivatives as Promising Anti-TB agents: An in-silico and in-vitro Approach	Current prospectives on chemical sciences, Book Publisher International (DOI:10.973/BPI/cpcs/v5).
3.	Importance of Quinazoline and Quinazolinone derivatives in Medicinal Chemistry,	Book chapter Studies in Natural Product Chemistry, Elsevier publication.

RESEARCH EXPERTISE:

- **Spectroscopy:** Acquisition and analysis of ^1H NMR, ESR, TGA, DSC, DTA, IR, UV and analysis of mass spectra.
- Conversant with commonly used general software like MS-Office and Chemistry related software's, viz, Chem Draw, ISIS Draw.
- Conversant with modern literature search methods, namely Sci-finder and other similar search engines.

RESEARCH EXPERIENCE: (COORDINATION CHEMISTRY)

- Design and synthesis of Transition metal /Lanthanide Schiff bases metal complexes
- Structural investigations of Schiff base complexes employing UV/Vis, FTIR, Mass spectrophotometry and X-ray diffraction study.
- Biological study of synthesized Schiff base complexes.
- Screening of the synthesized Schiff base complexes for their magnetic resonance imaging contrast property, in an attempt to increase their magnetic resonance imaging property.

REFRESHER COURSES: (Faculty Devolvement Programs)

- ❖ Successfully Completed 21 Days Training Program equivalent to UGC refresher course on "**University and PG College MSc Teachers Training Program in Chemistry**" Supported and approved by MHRD, Govt of India under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 16th June 2019 to 6th July 2019, at **Talent devolvement Centre, Indian institute of Science**, Kudapura, Challekere Campus.
- ❖ Participated in Five days faculty devolvement training for college teachers on "**Recent advances in inorganic chemistry**" Jointly organized by Department of chemistry and School of physical sciences & Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), Central university of kerala (CUK), Kasaragod, from 05.03.2021 to 09.03.2021.
- ❖ Participated in National level one week faculty devolvement programme on **Research Methodology**, from 26th April to 1st May 2021, Organised by Amar sewa mandal kamala Neheuh mahavidyalaya, Nagpur.

CONFERENCES/PRESENTATIONS: (2019-2020)

- 1 Presented the Paper entitled "**Synthesis, Characterization and antimicrobial Studies on the metal complexes of 4-Nitroaniline based Schiff Base**" organized by Indian Science Congress Association, held at GKVK, Bangalore, on 3rd to 7th January 2020.
- 2 Presented the paper on the poster entitled "**Spectral and Anti-Microbial Studies on the La(III) and Ce(IV) complexes of a novel Schiff base**" (NCICS)-2020, held at VignanaBhavan, University of Mysore, Manasagangothri, Mysuru on 30th and 31st January -2020

- 3 Presented the paper on the topic entitled “**Synthesis, characterization and antimicrobial Studies on the metal complexes of Salicylaldehyde with Para Nitroaniline based Schiff Base**” in the National Conference on Science and Technology: Rural Development – 2019” (NCSTRD) held at Centre for materials science and technology/Vijnana Bhavan, University of Mysore, Manasagangothri, Mysuru on 17th and 18th October 2019.
- 4 Presented a paper on the topic entitled “Synthesis, characterization and antimicrobial Studies on the metal complexes of Pyrazine-2-carboxamide and 2-Hydroxybenzaldehyde Schiff base” in the 11th KSTA National Conference organized by Karnataka Science and technology academy and NMKRV College for Women, Bengaluru. held on 1-2th feb 2019.
- 5 Presented a paper on the topic entitled “**Studies on the metal complexes of N’-(furan-2-ylmethylidene)-pyridine-4-carbohydrazide**” (PP-455) in the International Conference on Advanced functional material for energy, Environment and Health Care”(AFMEEHC) held on 18-20th March 2019 at Vignambhavan, Manasagangothri, Mysuru