

FACULTY PROFILE

Name : **Dr. C. CHANDRAKALA**

Qualification : M.Sc., M.Phil., Ph.D.

Designation : Assistant Professor
Department of Chemistry

Years of

Experience : **UG** : 8 Years 6 Months **PG** : 06 Months

Email Id : bchandru8484@gmail.com

Areas of

Specialization : Organic Chemistry and Material Science

Publications

1. **C. Chandrakala**, P. Sravanthi, S. Raj Bharath, S. Arockiasamy, M. George Johnson, K.S. Nagaraja, B. Jeyaraj, Synthesis, structure, vapour pressure and deposition of ZnO thin film by plasma assisted MOCVD technique using a novel precursor bis[(pentyl nitrilomethylidene) (pentyl nitrilomethylidene- μ -phenalato)]dizinc(II), Journal of Molecular Structure, 1130, 1-9, **ISSN No. 0022 – 2860**, 2017.
2. **C. Chandrakala**, P. Sravanthi, K. S. Nagaraja, B. Jeyaraj, “Phase Diagram Studies and Thin Film Coatings of bi and tri-metallic oxides using Tris β -Diketonates of Aluminium (III), Chromium (III) and Iron (III) as a Single source precursor” International Journal of ChemTech Research. Vol.7, pp 2711-2722, **ISSN. No. 0974 – 4290**, 2015.
3. **C. Chandrakala**, P. Sravanthi, K. S. Nagaraja, B. Jeyaraj, “Binary Phase Diagram and Thin Film Coatings of bimetallic oxides using Bis(N-isopropylsalicylaldimine)M(II) (M = Co, Ni and Zn as a Single source precursor For Thermal Chemical Vapor Deposition” International Journal of Chemical and Physical Sciences. Vol.5, Issue 1, **ISSN. No. 2319 – 6602**, 2015.
4. P. Sravanthi, **C. Chandrakala**, M. G. Johnson, S. Arokiasamy, K. S. Nagaraja, B. Jeyaraj, “Synthesis and Crystal Structure of Cobalt (II) Schiff Base Precursor for Cobalt Oxide Thin Film by Thermal Chemical Vapor Deposition”, Polyhedron. Vol. 110, 291–298, **ISSN No. 0277 – 5387**, 2016.

5. P. Sravanthi, **C. Chandrakala**, K.S. Nagaraja, B. Jeyaraj, “ Development of Cobalt Schiff Base Precursors For nanocrystalline Cobalt Oxide Thin Film By Thermal CVD Method ”, International Journal Of Pharmaceutical, Chemical and Biological Sciences, Vol.5,pp. 112-125, **ISSN No. 0019 – 6339**, 2015.
6. P. Sravanthi, **C. Chandrakala**, K.S. Nagaraja, B. Jeyaraj, “ Thermodynamic and Decomposition Kinetic Studies of Cobalt Schiff base Complex of 2,4-pentandione diamines and Semicarbide” International Journal of ChemTech Research.Vol.8,pp 1310-1318, **ISSN No. 0974 – 4290**, 2015.

Presentations

1. Presented a Paper (oral presentation) on “Synthesis, Characterization and Antimicrobial Activity of Novel Zn(II) Schiff Base Complex”, 3rd International Conference on Recent Trends in Analytical Chemistry (ICORTAC- 2023) organized by the Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai, On 26th, 28th, June, 2023.
2. Presented a Paper on “Single Crystal and Phase Diagram Studies of Bis(N-isopropylsalicylaldiminato)cobalt(II)-Bis(N-isopropylsalicylaldiminato)nickel(II)-Bis(N-isopropylsalicylaldiminato)zinc(II)”, National conference on materials for modern world – NCMMW, Department of Physics, Easwari Engineering college, Chennai, 10-11th September 2014.
3. Presented a Paper on “Phase Diagram Studies of Tris β - Diketonates of Al^{3+} , Cr^{3+} and Fe^{3+} By Thermal Analysis”, Fourth International Conference on Recent Advances in Composite Materials (ICRACM-2013), International centre, Goa, February 18-21, 2013.
4. Presented a Paper on “Synthesis and Characterisation of Metal acetylacetonate precursors for Thermal Chemical Vapour Deposition (CVD) method” National Conference on Nanomaterials, Karunya University, Coimbatore, December 3-4, 2012.

Conferences/Workshops/Seminar/Webinars Participated

1. Participated in one day seminar on “**Fundamentals of Molecular Spectroscopy & Analytical Techniques**” organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 10th, January, 2023.

2. Participated in the Webinar on **“Analytical Chemistry- The Pillar of Nuclear Technology”** organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 14th, December, 2021.
3. Participated in the Webinar on **“Raman Spectroscopy- Instrumentation & Analysis”** organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 06th, June, 2021.
4. Participated in the UGC sponsored **Faculty Development Programme** on **“Recent Developments in Material Science- 21”** organized by Department of Physics and Chemistry, Shree Saraswathi Thyagaraja College for Women, Coimbatore, from 16.06.2021 to 22.06.2021.
5. Participated in the UGC sponsored International Webinar on **“Molecular Mechanics Involved in T Cell Signaling”** held at PG Department of Chemistry, Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chennai, on 13th July, 2020.
6. Participated in the International Conference on **“Innovative Strategies In Chemical Science And Technologies (ISCST2020)”** organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 27th & 28th June, 2020.
7. Participated in the UGC sponsored International Webinar on **“Advanced Functional Materials For biomedical & Energy”** organized by PG Department of Chemistry, Loyola College, Chennai, from 24th June, 2020 to 25th June 2020.
8. Participated in the Webinar on **“Nanomaterials- Remedy For Environmental Issues”** organized by Department of Chemistry, Justice Basheer Ahmed Sayeed College For Women, Chennai, on 5th, June, 2020.
9. Participated in the **Faculty Development Programme** on **“Advanced Materials And Their Application”** organized by PG & Research Department of Chemistry, Auxilium College, Vellore, from 02.06.2020 to 06.06.2020.
10. Participated in the Webinar on **“Cyclic and Linear Sweep Voltammetry: Fundamentals & Applications”** organized by Department of Chemistry, Bhaktavatsalam Memorial College for Women, Chennai, on 31st May, 2020.
11. Participated in the Webinar on **“Computational Chemistry a Tool in the Modern Era”** organized by PG & Research Department of Chemistry, Nadar Mahajana Sangam S.VellaiChamy Nadar College, Madurai, on 30th, May, 2020.
12. Participated in the Webinar on **“Chemistry Through IT- A Lighthouse to Chemist”** organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 20th, May, 2020.

13. Participated in the Webinar on **“Modern Analytical Technologies for Public Health Analysis”** organized by Department of Chemistry, Bhaktavatsalam Memorial College For Women, Chennai, on 15th, May, 2020.
14. Participated in the UGC sponsored International Seminar on **“Models and Methods in Bioinorganic Chemistry” (MMBIC)** held at Department of Chemistry, Loyola College, Chennai, on 22nd February, 2017.