

CURRICULUM VITAE

Dr. Somashekar M N M.Sc, B.Ed, Ph.D, PDF

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OBJECTIVE

To work in a highly motivating and challenging environment where I can contribute my skills, Knowledge and experience gained from previous employment. I wish to associate with the field of bioinorganic and nanomaterial chemistry and contribute my best towards the organization.

EDUCATIONAL QUALIFICATION

COURSE	UNIVERSITY	YEAR OF PASSING	Specialization
Ph.D	Bangalore University	2015	Bioinorganic Chemistry
B.Ed.	Bangalore University	2008	Chemistry Biology method
M.Sc.	Bangalore University	2007	Inorganic Chemistry
B.Sc.	Bangalore University	2005	Chemistry, Zoology, Microbiology

PRESENT EMPLOYMENT

From Jan 2023 to till date

Working as an **Assistant Professor** in Department of Chemistry, S S Margol Degree College of Arts, Science and Commerce, Shahabad-585228

POSTDOCTORAL RESEARCH

Worked as a Project Scientist at Indian Institute of Technology Kanpur, Uttar Pradesh

Field: Nano-materials, Nano Gold thin films

Objectives of Post-Doctoral research

- Preparation of nano gold thin films by PVD method
- Deposition of nano gold particles of glass substrate by electroless process
- Smoothing of nanostructured surface of thin films by electrolytic process
- Study of plasmonic and metamaterial surfaces
- Characterized by SEM, TEM, AFM, FESEM, Powder XRD, etc...

DOCTORAL RESEARCH

At Department of Chemistry, Bangalore University

Research Supervisor: Prof. P R Chetana

Research Field: Bioinorganic Chemistry

Thesis Title: “DNA binding and cleavage activities of bioactive 3d metal complexes”.

Objectives:

1. **Experimental Skills:** Synthesis of various biologically important organic ligands and their metal (, Co, Ni, Cu and Zn) complexes and purification by Chromatography (TLC and Column) and Characterization by Various spectroscopic techniques like FT-IR, UV-Visible, NMR (^1H NMR, ^{13}C NMR), ESI-MS and X-Ray crystallography.
2. **Spectroscopy and Magnetism:** In operating and handling IR, UV-visible, Fluorescence, Thermo gravimetric analyzer, CHNS analyzer, Cyclic voltammetry and interpretation of Infrared(IR), Electronic(UV-Vis), Mass spectra(ESI-MS), EPR, Magnetic moment and NMR spectral data for the characterization of ligands and metal complexes.

LIST OF PUBLICATIONS

- 1) P. R. Chetana, **M. N. Somashekar**, B. S. Srinatha, R. S. Policegoudra, S. M. Aradhya, and Ramakrishna Rao, “Synthesis, Crystal Structure, Antioxidant, Antimicrobial, and Mutagenic Activities and DNA Interaction Studies of Ni(II) Schiff Base 4-Methoxy-3-

benzyloxybenzaldehyde Thiosemicarbazide Complexes” *ISRN Inorganic Chemistry, Volume 2013, Article ID 250791, 11 pages*

- 2) P. R. Chetana, , B. S. Srinatha, **M. N. Somashekar** R. S. Policegoudra, Ramakrishna Rao Basudev Maity, S. M. Aradhya, “Novel Ligand 1-Benzyl-3-(4-Ethyl-Pyridin-2-Yl)-Thiourea and Cu (I) Complexes: DNA Interaction, Antibacterial and Thermal Studies” *Int. J. Pharm. Sci. Rev. Res., 21(1), Jul – Aug 2013; n° 61, 355-363*
- 3) P. R. Chetana, **M. N. Somashekar**, B. S. Srinatha, R. S. Policegoudra, S. M. Aradhya, “In-vitro Antimicrobial activity and DNA cleavage studies: Synthesis and Characterization of novel M(II) complexes with ONO donor schiff base ligand derived from phenylpropanehydrazide” *Int. J. Pharm. Sci. Rev. Res., 26(1), May–Jun, 48, 284-290, 2014.*
- 4) P. R. Chetana, , B. S. Srinatha, **M. N. Somashekar** R. S. Policegoudra, Synthesis, spectroscopic characterisation, thermal analysis, DNA interaction and antibacterial activity of copper(I) complexes with N, N'- disubstituted thiourea, *Journal of Molecular Structure, Volume 1106, 15 February 2016, Pages 352-365*
- 5) **M N Somashekar**, P R Chetana, “A Review on anthracene and its derivatives: Applications” *Journal of Chemistry, Vol 5, Issue 3, September, 2016, 45-52.*
- 6) **MN Somashekar**, P R Chetana, B S Chethan, H R Rajegowda, M A Cooper, Z M Ziora, N K Lokanath, P S Sujana Ganapathy, B S Srinatha “Synthesis and characterization of Zinc (II) complex with ONO donor type new Phenylpropanehydrazide based ligand: Crystal Structure, Hirshfeld Surface Analysis, DFT, Energy Frameworks and Molecular Docking, *Journal of Molecular Structure, 1255, 2022, 132429.*
- 7) D.V. Padmaja, H.R. Rajegowda, B.S. Chethan, P. Krishnamurthy, Riyaz ur Rahaman Khan, P.A. Suchetan, N.K. Lokanath, **M.N. Somashekar**, B. Jayashankar, “New thioether-hydrazide based ONS donor Schiff base and its Pd(II) complex: Synthesis, crystal structure, thermal analysis, hirshfeld surface analysis, quantum chemical studies and molecular docking”, *Journal of Molecular Structure, 1281, 2023, 135041.*
- 8) Swathi. K. R, **Somashekar. M. N**, Chetana. P. R. Facile Synthesis, Characterization and Screening of Bimetallic Cobalt Complexes for Their Drug Potency, *International Journal of Applied Chemistry. ISSN 0973-1792 Volume 19, Number 1 (2023) pp. 1-30.*
- 9) Vemparala Venkatesh, **Somashekar. M. N.** “A review on Schiff bases and its biological applications” (*Communicated*).

- 10) B S Anandakumar, **MN Somashekar** “Visible light induced photocatalytic degradation of acid red 1 dye using SrCO₃ nanoparticles”. (*Communicated*)
- 11) **MN Somashekar**, P R Chetana, B S Chethan, H R Rajegowda, M A Cooper, Z M Ziora, N K Lokanath, “Synthesis, Characterization, Crystal Structure, Hirshfeld Surface Analysis, DFT, Energy Frameworks and Molecular Docking of Cu(II) and Ni(II) complex with hydrazide based tridentate ligand. (*Communicated*).
- 12) **M. N. Somashekar**, S. Guddala, S. A. Ramakrishna “Electrolytic process for reconfiguring the thickness of gold nanostructured surfaces” (*Communicated*).

PAPER PRESENTATIONS

1. P. R. Chetana, **Somashekar M. N.**, Srinatha B. S, Ramakrishna Rao “DNA interactions with newly synthesized Ni (II) Schiff base (4-methoxy-3-benzyloxybenzaldehyde-thiosemicarbazide)complexes”, 14th CRSI, NIIST, Trivandrum, Kerala. Feb 3-5 th, 2012.
2. P. R. Chetana, **M. N. Somashekar**, B. S. Srinatha, R. S. Policegoudra, S. M. Aradhya, “UV-Vis, ¹H NMR, FT-IR Spectral Characterization of new tridentate ONO donor Carbohydrazone Schiff base ligand and its M(II) complexes” National Conference on Frontiers in Applied Spectroscopy, Maharani’s Science College, Bangalore-13-14 Feb, 2014.
3. P. R. Chetana, **M. N. Somashekar**, B. S. Srinatha, “Synthesis, Characterization, Antibacterial and DNA interaction Studies of M(II) complexes with tridentate (ONO) donor Schiff base ligand, Indo-French Seminar on Bio-Inorganic Approaches to Current Health Problems, Pondicherry, 24-28th Mar 2014.
4. P. R. Chetana, B. S. Srinatha, **M. N. Somashekar**, National Conference on “Frontiers and Challenges in Biological Organometallic Compounds” (FCBOM-2013) held at Department of Chemistry M. S. Ramaiah Institute of Technology, Bangalore, Karnataka on 20-21 Jun 2013.

FACULTY DEVELOPMENT PROGRAM (FDP) ATTENDED

- ❖ Attended Faculty development programme on “Recent Advances in materials Design and Characterization (RAMDC-2016)” held during 11th to 13th January, 2016, organized by MSRIT (M.S. Ramaiah Institute of Technology), Bangalore.
- ❖ Attended Faculty development programme on “Research and its implications for the advancement of science: An interdisciplinary approach” held during 22nd to 26th July 2019, organized by Reva University, Bengaluru.

- ❖ Attended Faculty development programme on “Recent developments in energy, environment and health sector” 3rd to 7th February, 2020, organized by Acharya Institute of Technology” Bengaluru.
- ❖ Attended Five Days Faculty Development Programme on UNIVERSAL HUMAN VALUES AND PROFESSIONAL ETHICS organized by Department of basic sciences in association with UHV cell, Acharya Institute of Technology from 19th to 23rd July 2021
- ❖ Attended Five Days Faculty Development Programme on “Research Skills and Techniques” organized by Department of Chemistry, Reva University from 24 to 28 May 2021.
- ❖ Attended Nine Days Faculty Development Programme on Outcome based education organized by Acharya Institute of Graduate Studies, Bengaluru from 12th to 19th October, 2020.
- ❖ Attended Five Days Faculty Development Programme on “Recent developments in energy, environment and health sector” organized by Acharya Institute of Technology, Bengaluru from 3rd to 7th February, 2020.
- ❖ Attended Five Days Faculty Development Programme on Research and its implications for the advancement of science organized by Department of Chemistry, Reva University from 22/07/2019 to 26/07/2019.
- ❖ Attended Five Days Faculty Development Programme on IPR Audit in Higher Education organized by Institutes IPR Cell, Acharya Institutes, Bengaluru and KSC for Science and Technology, IISc, Bengaluru from 18th to 22 May 2021

CONFERENCES/WORKSHOP/WEBINARS ORGANIZED

- ❖ Organized a workshop on “Entrepreneurship and skill development Programme in chemistry” held during 6th June 2019 at Department of Chemistry, Acharya Institute of Graduate Studies, Bengaluru.
- ❖ Organized National webinar on “Basics to Advanced Topics in One Dimensional NMR Spectroscopy” held during 29th May 2020 at Department of Chemistry, Acharya Institute of Graduate Studies [AIGS] Bengaluru.
- ❖ Organized National webinar on “Impact, Challenges and Opportunities in Chemistry postcovid-19” held during 6th June 2020 at Department of Chemistry, Acharya Institute of Graduate Studies [AIGS] Bengaluru.

- ❖ Organized Two-day National Conference on “Emerging Perspectives of Chemical Science in Biological and Technological Aspects” (EPCBT–2022) on 13 & 14 July 2022.

FACULTY DEVELOPMENT PROGRAM (FDP) ORGANIZED

- ❖ Organized Five days national Faculty development programme on “Insight in to Analytical Techniques and its Applications-2021” held during 21st to 25th June 2021.

ACHIEVEMENTS (AWARDS AND FELLOWSHIPS)

- 2012-**Junior Research Fellow**, Department of Science and Technology PURSE Programme (DST PURSE), Bangalore University, Bangalore, India
- 2014- **Best Poster Award**, National Conference on Frontiers in Applied Spectroscopy, Maharani’s Science College, Bangalore-01

TEACHING EXPERIENCE

S1. No.	Post held	From – To	Experience	Name of the College / University
1	Associate Professor	Aug 2015- Jan 2023	7.6 years	Acharya Institute of Graduate Studies(AIGS), Soladevanahalli, Chikkabanavara post, Bangalore-560107
2	Lecturer (Guest Lecturer)	2013-14	One Year	Dept of Chemistry, Central College Campus, Bangalore University, Bangalore
3	Lecturer (Guest Lecturer)	Aug.2012-13	One year	UVCE, Bangalore university

ADMINISTRATIVE ROLES

1. **Head of the Department**, Acharya Institute of Graduate Studies (AIGS) May 2016 to Jan 2023.
2. **Assistant Custodian** for UG examination, Bangalore University, Bengaluru (2017).
3. **Deputy Controller of Examination**(PG), June 2018 to June 2020

PERSONAL DETAILS

Name : **Somashekar M N**
DOB : 21-03-1983
Father Name : Narasimhappa
Sex : Male
Nationality : Indian
Address : Siddepalli Cross (Chowdareddypallya) Village,
Gudumarahalli Post,
Chintamani Taluk, Chikkaballapur Dist,
Karnataka State-563146
Languages Known : Kannada, English, and Telugu.


REFERENCE

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DECLARATION

I hereby declare that the above mentioned information is true to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned information.

Yours' faithfully



Somashekar M N