

CURRICULUM VITAE

1. **Name:** Dr. Mohammedshafi A. Phaniband
2. **Father Name:** Late. Abdul Raheem Phaniband
3. **Nationality:** Indian.
4. **Contact details:** Mobile: 9972999128; Email: maphaniband@gmail.com
5. **Academic Qualification:** M.Sc., Ph.D
6. **Awards & Honors :**



- i. AGMARK approved Chemist, Government of India, 2007.
- ii. Young Scientist Award, Indian Chemical Society, 2008.
- iii. Research Guide for Ph.D students: VTU Belgaum & Bharthiar University, Coimbatore, 2013.
- iv. Certified Trainer for Dye making and Soap-Detergent powder manufacturing from Directorate of Human Resources Development, Ministry of Industries; Government of India- 2014-2015.
- v. Certified for Production and Chemical Manipulation of 2D Nanomaterials and Carbon Nanotubes form Ministry of Human Resource Development, Government of India- 2017.
- vi. National Citizenship Gold Medal Award by GEPRA –New Delhi -2018.
- vii. Post Graduation Diploma in Patents Law- Nelsar University, Hyderabad -2018.
- viii. Chairman for Framing and Implementing of “Intellectual Property Rights” Policy for SDM College of Engineering & Technology, Dharwad.
- ix. Karnataka Science and Technology VGST- Award, Government of Karnataka -2019.
- x. Certified Auditor as per ISO 21001:2018 standards for Management Systems for Educational Organizations, 2020.

7. **Experience : 16 years & 04 Months.**

- **Faculty , April 2022 till date, Nehru Arts, Science and Commerce Degree College, Hubballi.**
- **Scientist & Director, January 2021 to March 2022, Shree Kappath Malleshwar Horticulture Farmers Producer Company Limited, India.**
- **Scientist & Global Industrial Consultant, July 2020 to December 2021, Bangalore, India.**
- **Asst. Professor, August 2009 to June 2020, SDM College of Engineering & Technology, Dharwad, India**
- **Lecturer, July 2005 to March 2006, Shri Tontadarya College of Engineering, Gadag, India.**
- **Lecturer, May 2004 to June 2005, Shri Gandhiji Para Medical College., Gadag , India.**

Past Designation with Roles & Responsibilities

- January 2021 to March 2022 , **Scientist & Director; Shree Kappath Malleshwar Horticulture Farmers Producer Company Limited, India.**

- Analysis of water and soil for the best agricultural practices.
- Guiding Farmers for the selection of crop based on water and soil conditions.
- Development of innovative technologies in the fields of farming with modern equipments.
- Promotion for the use of self made Organic Fertilizers and manures.
- Pilot Project Models for self sustainable farming ecosystems.
- Scientific methods for the increase of Soil Organic Carbon (SOC) and the minimum use of chemical fertilizers.
- Arrangement of visits by eminent agro-scientists and subject experts for lectures and training for the Farmers.
- Developed Better Revenue generation Ecosystem models for the farmers.

- August 2020 to December 2021, **Scientist & Global Industrial Consultant, Bangalore, India.**

- Industrial Research Consultancy for the group of more than 70 Industries towards development of new and innovative industrial practices.
- Guiding interns for the solution of industrial problems and arrival towards to the root cause analysis.
- Development of innovative technologies in the fields of Food, Agriculture and Pharma sectors.
- Establishment of Proof of Concept (POC) and building of Lab Model for the developed technologies.
- Pilot Project Models for Industrial Consultation and Technology transfer to the Society.
- Arrangement of visits by eminent scientists and subject experts for lectures and training for the Industrial sectors.
- Uplifting of Industrial economy, generation of skills, job placements and development of our Country INDIA's progress towards self sustainability.

- August 2009 to June 2020, **Assistant Professor, SDM College of Engineering & Technology, Dharwad., India**

- Teach Engineering Chemistry Theory and Lab to all I & II sem students SDM College of Engineering & Technology.
- Teach III sem Technical Chemistry Theory and Lab to Chemical Engineering students.
- Guiding students for their projects and Ph.D.
- Establish research collaborations with scientists and researchers at IISc, IITs, and regional

and national universities.

- Arrange visits by eminent scientists and subject experts for lectures and training.
- Core committee member for the introduction of Nanotechnology course in SDMCET for the first time as an elective for the higher semester students.(The students have opted for this elective in the VIII semester).

July 2005 to March 2006, **Lecturer, Shri Tontadarya College of Engineering**, Gadag, India.

- Taught Engineering Chemistry Theory and Lab to all I & II sem students.
- Taught Environmental Chemistry Theory for I & II sem students.

May 2004 to June 2005, **Lecturer, Shri Gandhiji Para Medical College.**, Gadag, India.

- Taught Chemistry Theory and Lab for paramedical I year students.
- Taught Bio-chemistry Theory for II and III year students.

8. Resource Person

- i. For Orientation Programme in Chemistry for UG & PG Courses at Kakade Career Academy Foundation, Dharwad from 15th May to 30th May 2008.
- ii. For Workshop for PU Science Students for preparation towards CET examination at Kittel Science College, Dharwad on 6th January 2012.
- iii. For UGC Sponsored National Seminar on Pharmacology and Drug Delivery at KLE Society's J. T. Degree College, Gadag on 21st & 22nd August 2015.
- iv. For State level Seminar on "Pollution: Assessment and Management" at KLE Society's Gudleppa Hallikeri College, Haveri on 10th October, 2015.
- v. For National seminar on "Emerging Trends in Chemical Science" at KLE Society's J. T. Degree College, Gadag on 2nd March 2018
- vi. For The Institution of Engineers (India) on "Triangular Model for Sustainable Development" on 26th June 2018
- vii. For National Seminar on "Industry 4.0" held at Shifa Hospital Bangalore on 24th August 2019.
- viii. For Two day National Seminar on "Action Research and Screen time Management" held at Delhi on December 2019.
- ix. For Two Day Industrial Business Summit of MIA on "Building sustainable Industrial Business Ecosystems" held at Shringar Palace, Bangalore on 14th & 15th January 2023.

9. Research Contributions.

It's an inspiration working with number of good scientists and their field of research. By the inspiration from my research supervisor, I have worked in the synthesis of heterocyclic pharmaceutical active molecules viz., Coumarins, thiazoles, thiadiazoles, sydnonones, quinolines,

carbostyrils etc. The transition and inner-transition metal based compounds and their evaluation for the microbiological, antitubercular, antitumor and cytotoxicity studies. Work is under progress for using the compounds as catalytic agents. A few complexes and their ligands have exhibited excellent fluorescent properties and efforts are to use them as biomarkers and labeling compounds which may find application in biochemistry and medicine. My research deals with the works in the fields of Nanotechnology, chemoinformatics, synthetic chemistry, medicinal chemistry and environmental assessments. My research team with four Ph.D students are working on biosensors for medical applications and nanoadsorbents which are employed for defluoridation and dearsenification in waste water treatment. We also work with nanocatalysts which find applications in petroleum industry. Many nanogels have been synthesized and are into clinical trials for the applications in drug delivery.

- **Instrumental** : Spectroscopy (IR, Uv-Vis, Fluorescence, NMR, Mass), Chromatography, Atomic Absorption Spectroscopy., Thermogravimetry and SEM for Nanotechnology.
- **Biological** : Microbial evaluation of compounds by MIC methods; Invitro Cytotoxicity studies for anticancer and antitumor agents. DNA isolation and its cleavage mechanisms by metal complexes. Designing of fluorescent probes and sensors used as markers in biochemistry and medicine.
- **Computer** : Completed Diploma in Information Technology;
- Can handle chemical softwares.

Research students for Ph.D (Four)

One Ph.D student working under my guideship from the Vishveshwarya Technical University , Belgaum. Karnataka. Three Ph.D students working under my guideship from the Bharathiar University, Coimbatore.

One Ph.D awarded -2023

10. Conference Presentations

- M.A.Phaniband** and S.D.Dhumwad, "Synthesis, Characterization and Biological evaluation of transition metal complexes of Schiff bases derived from 4-substituted carbostyrils", 2nd International conference on HETROCYCLIC CHEMISTRY, Dept. of Chemistry, University of Rajasthan, Jaipur-2006.
- M.A.Phaniband** and S.D.Dhumwad, "Physico-Chemical and Biological studies on Co(II), Ni(II), Cu(II) and Zn(II) complexes of Schiff bases derived from the condensation of 3-formyl, 2-mercaptoquinolines with anilines". 44th Annual Convention of Chemists, Dept. of Chemistry, Mahathma Gandhi Institute of Applied Sciences, Jaipur-2007.
- M.A.Phaniband**, "Introduction to metal oxide nanoparticles and their future pharmacological applications " in International Colloquium on Nanotechnology, held by SDM College of Engineering & Technology, at Hotel Naveen on 8th & 9th July 2008.
- M.A.Phaniband** and S.D.Dhumwad, "A novel synthetic, spectroscopic and biological approach of Co(II), Ni(II), Cu(II) and Zn(II) complexes derived from 2-amino-5-aryl 1,3,4 thiadiazoles" 45th Annual Convention of Chemists and International conference on Recent

Advances in Chemistry, held at P.G. Dept. of Chemistry, Karnatak University Dharwad from 23-27th November 2008.

- v. **M.A.Phaniband** and S.D.Dhumwad, "Synthesis, characterization and Biological studies of Co(II), Ni(II), Cu(II) and Zn(II) complexes of Schiff Bases derived from the condensation of 2-chloro-3-formyl quinoline with thiosemicarbazide", at 27th Annual Conference of Indian Council of Chemists held at Dept. of Chemistry, Gurukul Kangri Vishwavidyalaya, Haridwar on 26-28th December 2008.
- vi. **M.A.Phaniband** and S.D.Dhumwad, "Recent trends in Drug designing and Drug deliver systems" in UGC Sponsored National Conference on Recent Trends in Drug Designing & Innovations in coating, conversion and printing of paper, held at Bangurnagar Arts, Science, Commerce & Applied Science college, Dandeli on 23rd and 24th January 2009.
- vii. **M.A.Phaniband** and R. F. Ankalgi, "Protection Conservation & Restoration of Wetlands- A case study of Kalgeri waters in Dharwad" in UGC sponsored National Conference on Protection and Conservation of Wetlands in India held at Nehru Arts, Science & Commerce College, Hubli on 17th and 18th August 2009.
- viii. **M.A.Phaniband**, Venkatesh Muthalilk, Srikanth Kulkarni and S.D.Dhumwad, "Synthesis, Characterization and antimicrobial studies of Co(II), Ni(II), Cu(II) and Zn(II) complexes derived from coumarin Schiff bases" 28th Annual Convention of Chemists, held at Chadisgarh from 17-21st December 2010.
- ix. **M.A.Phaniband**, As a Invited Delegate for 5th Bangalore Nano Conference- held at Hotel Lalit Ashoka Bangalore on 5th and 7th December 2012.

11. Faculty Development Programmes

- i. **M.A.Phaniband**, One Week VTU-VGST Faculty Development Program on "Recent Advances in Applied Chemistry and Nano Technology" held at JSS Academy of Technical Education from 26th to 30th March 2012.

12. Workshops attended

- i. **M.A.Phaniband**, One day National Workshop on "Nuclear Energy for 21st Century" on 27th August 2009.
- ii. **M.A.Phaniband**, Two day National Workshop on "Process, Operations, Control and Optimisation" on 27th & 28th September 2013.
- iii. **M.A.Phaniband**, Two day National Workshop on "Industry-Institution Interaction for the Prospects in the field of Chemical Engineering" on 29th & 30th November 2013.
- iv. **M.A.Phaniband**, One day National Workshop on "National Programme on Technology Enhanced Learning" on 28th February 2015.
- v. **M.A.Phaniband**, Two day hands on National Workshop on "Patent Drafting" on 26th & 27th August 2016.
- vi. **M.A.Phaniband**, Three day National Workshop on "Prominence of Photovoltaic (PV) systems in Green Energy Development" from 3rd to 5th October 2016.
- vii. **M.A.Phaniband**, One day National Workshop on "Research Literacy: Academic writing,

E-resources and Research Quality Indicators ” on 18th October 2018.

13. Seminar attended

- i. UGC Sponsored National Seminar on “Recent Trends in Chemistry” on 18th February 2008.
- ii. Seminar on “Nanoscience and Nanotechnology” on 19th & 20th March 2008.
- iii. National Level Seminar on “Ethical Issues in Engineering and Technology” on 24th August 2013.
- iv. Coordinated and Conducted One day Seminar “ Ethanol: A Prospective Green Chemical Industry for Renewable & sustainable fuel” on 26th October 2016.

14. Research Publications:

Sl. No	Author, Title & Journal	ISSN/ISBN	Impact Factor
1.	M.A.Phaniband and S.D.Dhumwad, “Synthesis, Characterization and Biological studies of Co(II),Ni(II), Cu(II) and Zn(II) complexes of Schiff bases derived from 4-substituted carbostyrils[quinolin2(1H) –ones]” <i>Transition Metal Chemistry</i> , 32,1117-1125 (2007).	ISSN:03404285	2.31
2.	M.A.Phaniband, S.D.Dhumwad and P.G.Avaji, “Synthesis, spectral characterization and biological evaluation of some Lanthanide(III) complexes of Schiff bases of carbostyryl derivatives”. <i>Main Group Chemistry</i> 7:4,271-283 (2008).	ISBN:100471490393	1.04
3.	M.A.Phaniband, S.D. Dhumwad, J. J. Jogul and P.G .Avaji., “Novel transition complexes of Co(II), Ni(II), Cu(II) and Zn(II) derived from 3-[p-(5-substituted salicylidinehydrazinocarbonyl)]phenylsydnones”. <i>Main Group Chemistry</i> .7:4,285-299 (2008).	ISBN:100471490393	1.04
4.	M.A.Phaniband and S.D.Dhumwad, “Synthetic, spectroscopic, fluorescent and biological approach of Co(II), Ni(II), Cu(II) and Zn(II) complexes of Schiff bases derived from 3-formyl-2-mercaptoquinolines (Quinol-2-thiones)”. <i>Journal of Coordinaiton Chemistry</i> , 62:14, 2399-2410 (2009).	ISSN:00958972	1.87
5.	M.A.Phaniband, A.F.Dodamani and S.D.Dhumwad. “Estimation of excited state dipole moments of di(2-methyl 6-chlorophenyl)carbazone and its Co(II). Ni(II), Cu(II) & Zn (II) complexes from the solvent effect on their ultraviolet absorption spectra”. <i>Journal of Serbian Chemical Society</i> , 74(6) 641-650 (2009).	ISSN:03525139	1.24

6.	K. S. Lamani, O.Kotresh, M.A.Phaniband and J.C.Kadacol. "Synthesis, Characterization and Antimicrobial Properties of Schiff Bases Derived from Condensation of 8-Formyl-7-hydroxy-4-methylcoumarin and substituted Triazole Derivatives" <i>E-Journal of Chemistry</i> , 6(S1), S239-S246 (2009).	ISSN:09734945	0.70
7.	J.J.Jogul, M.A. Phaniband , S.R. Pattan and B.V.Badami. "Synthetic utility of the 3-[p-(hydrazinocarbonyl)]phenylsydnone as versatile precursor for synthesis of various 3-[p-(Heterocyclocarbonyl)]phenylsydnone and their biological evaluation". <i>Main Group Chemistry</i> , 8:4, 337-347 (2009).	ISBN:100471490393	1.04
8.	M.A.Phaniband, and S.D. Dhumwad, "Synthesis, characterization, invitro biological evaluation and DNA cleavage of Co(II), Ni(II), Cu(II) and Zn(II) complexes with coumarin schiff bases". <i>Medicinal Chemistry Research</i> , 20, 493-502 (2011).	ISSN:10542523	2.45
9.	M.A.Phaniband , and V. Muthalik, "Synthesis, characterization, fluorescence and antimicrobial properties of new Lanthanide(III) complexes derived from coumarin Schiff base". <i>Journal of Chemical and Pharmaceutical. Research</i> , 3:2, 313-330 (2011).	ISSN:09757384	0.15
10.	S.R.Pattan, Deepak. Thakur and M.A.Phaniband , "A Review: Metal complexes with Coordinating Ligands of Biological Interest" <i>Inventi Rapid Medicinal Chemistry</i> , 3 (2011).	ISBN:8185042136	1.03
11.	M.A. Phaniband , M. N. Makandar and Salim Sonekhan "An overview of food processing industries in India". <i>International Journal of Educational aspects, Management and applied sciences</i> . Issue 1. 2321-8606, Sept.(2015).	ISSN:23200383	0.48
12.	A. M. Tatagar & M.A. Phaniband . "New metal based antimicrobial and antitubercular agents with their cytotoxicity evaluation derived from 2-amino-5-hydroxyphenyl-1,3,4-thiadiazoles". <i>International Journal of Recent Scientific Research</i> . 7:4, 10132-10139 (2016).	ISSN:09763031	0.16
13.	M.A. Phaniband , A. M. Tatagar & Asiya M. Phaniband. "Use of nanoadsorbents and nanogels for the environmental waste water treatment". <i>Advance Science Letters</i> , 24:2, 812-816 (2018).	ISSN:19366612	0.13
14.	A.M. Tatagar and M. A. Phaniband , "Elimination of methylene blue dye and cadmium ions from aqueous solution using iron oxide nanoparticles" <i>Pollution Research</i> S112-S118 (2019).	ISSN:02578050	0.20
15.	A.M. Tatagar and M. A. Phaniband , "Antimicrobial, cytotoxicity and DNA cleavage evaluation of silver	ISSN:23198354	1.60

	nanoparticles”. <i>International Advanced Research Journal in Science, Engineering and Technology</i> . 8, 457-461 (2021)		
16.	A.M. Tatagar and M. A. Phaniband , “Study of induced amplification of antivacterial activity of ciprofloxacin on coupling with ZnO nanoparticles” <i>Materials Today Proceedings</i> . 49:3, 632-637 (2022).	ISSN:22147853	0.80
17.	A.M. Tatagar and M. A. Phaniband , “Photocatalytic activity and anti-microbial application of synthesized zinc oxide nanoparticles towards remediation of hospital waste water”. <i>Materials Today: Proceedings</i> . 49:3, 699-702 (2022).	ISSN:22147853	0.80

15. Projects:

Sl. No.	Title	Funding Agency	Amount	Status
1.	“Manufacture of bio-diesel using waste cooking oil from kitchens and hotels”	ARETOT LABS & CONSULTANTS PVT. LTD Ref. No.RP-07/BD2021	Rs.2.30 Lakhs	Completed
2.	“Nano-filtration process to remove dye from textile effluents in prevention of environmental pollution”.	VGST, Govt, of Karnataka Ref. No. KSTePS/VGST-RGS-F/2018-19/GRD No.797/315	Rs.5.0 Lakhs	Ongoing

16. Books.

- i. **M.A.Phaniband**. Intellectual property Rights guideline to institutions towards formation of IPR Policy (In Press).

17. Patents

- i. **Dr. M.F.Ansari & Dr. Mohammedshafi A. Phaniband** “Novel cooking device of energy efficiency with copper loaded pipes”. (Applied) Patent App. Number **TEMP/E-1/24965/2023-MUM**.

18. Activities for Social and Nation Building

- i. Village Adoption
- ii. Formation of Farmer Producing Organizations.

- iii. Training, Awareness and agro business information.
- iv. Building of Economic sustainable Ecosystems.
- v. Skill development training for developed technologies and patents.
- vi. Promotion of Food, Agro and Pharma Start ups.

Declaration: I hereby declare that all the information provided above is correct & valid.

Your's Sincerely

Place : Hubli

(M. A. Phaniband)

Date:

