CURRICULUM-VITAE

Correspondence address:

Dr. B R Kirthan

S/O Ramashetty D H

24/B Hudco colony

Bhadravathi, Shimogga-577302

Email: kirthanshetty.shetty@gmail.com

Mob. No: +91-9731179627



Objectives:

- Where my ability to understand different knowledge, commercial strength as well as selfmotivation where help me to develop organizational reputation through your esteemed Institute.
- More than 8 years' experience (Including research) in the field of inorganic chemistry, Coordination compounds, Engineering chemistry and also Guided more than 24 post graduate students towards their dissertation work in the field of "Synthesis, Characterization of the transition metal complexes of different nature of ligands followed by the biological applications".

Education:

- Doctor of philosophy Ph.D. award in Department of P G Studies and Research in Industrial
 Chemistry at Kuvempu University, Karnataka, India on 13-01-2022.
- M.Sc., in Industrial Chemistry, Department of Post Graduate Studies in Industrial Chemistry in Sir
 M V Government Science College Bommanakatte, Bhadravathi. Affiliated to Kuvempu University,
 Karnataka, India, in May-2015 with 65.24% of marks.
- **B.Sc.** (**PCM**)., Sir M V Government Science College Bommanakatte, Bhadravathi, Affiliated to Kuvempu University, Karnataka, India, in **Jun-2012** with **53.98%** of marks.
- **PUC,** in Physics, Chemistry, Mathematics and Biology, Paper Town Junior College, Bhadravathi, in April-2008 with **50.01%** of marks.
- SSLC, Paper Town High School, Bhadravathi, June 2006 with 70.72 %.

Personal Details:

Father's Name : Ramashetty D H
Permanent Address : Mr. B.R. Kirthan

S/O Ramashetty D H # 24/B Hudco colony,

Bhadravathi,

Shimogga – 577302.

Date of Birth : 24/03/1991

Gender : Male
Nationality : Indian
Marital Status : Married

Languages Known : Kannada, English, and Hindi.

Key Strengths:

• Hardworking, motivated and goal oriented.

• Demonstrated ability handling the situation.

• Computer: Email, Internet Browser, and word.

Skills:

- Capable of designing and fabrication of the organic ligands and the metal complexes with different metal ions.
- Prediction of the synthesized ligand and its metal complexes through the different spectroscopic techniques like UV-Visible, NMR, FT-IR, LC-MS, Powder XRD, and TGA-DSC, etc.
- 3. Ability to handle the Optimization study (DFT) of the compounds through Gaussian 09 and Gauss view 06 software.
- 4. Capable of handling the spectroscopic instruments like UV-Visible (SHIMADZU model 1650), FT-IR (Bruker alpha-T) and NMR Spectroscopy (Bruker 400 MHz).
- 5. Strong Communication skill.
- 6. Time management multiple priorities handling.
- 7. Capable of carryout the molecular docking studies of the compounds through the auto dock vina software.

Working Experience:

- 1. Working as an Assistant Professor in the Department of chemistry, Kalpataru Institute of technology, Tiptur-572202, Karnataka, India, from 01-12-2021 to till a date.
- 2. Worked as Research Scholar, in the Department of Post Graduate Studies and Research in Industrial Chemistry, Sir M.V. Government Science College, Bhadravathi-577302. Shimogga-Dist., Karnataka, INDIA, from 03-01-2018 to 13-10-2021.
- 3. Worked as Guest faculty in the Department of Post Graduate Studies and Research in Industrial Chemistry, Sir. M.V. Government Science College, Bhadravathi-577302. Shimogga -Dist., Karnataka, INDIA, from 03-08-2015 to 03-01-2018.

Computer Skills: Diploma in computer Applications.

Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Thesis Title : Studies on Synthesis, Characterization, and DNA Interaction

Some metal complexes.

Guide's Name : Dr. Prabhakara M C

Institute/ Department of P G Studies and Research Industrial

Organization/ : Chemistry,

University Sir M V Govt. Science College, Bommanakatte, Bhadravathi

Co-Guide's Name : Dr. H S Bhojya Naik

Department of P G Studies and Research Industrial

Institute/ Chemistry.

Organization/ : School of Chemical Science, Kuvempu

University, Jnana Sahyadri, Shankaragatta

Year of Award : 13-01-2022

Research Experiences:

Conference Attended:

- 1. UGC sponsored National Conference on "Role of IQAC in Mapping healthy practices and setting bench marks in Higher Education Institutions for Quality Sustance And Enhancement" organized by IQAC Sir M V Govt. Science College, Bommanakatte, Bhadravathi on 19th and 20th Sep 2014.
- 2. SEPE sponsored State level seminar on "Recent Trends in Chemistry" held at Sahyadri science college (Autonomous), Shimoga, on 17th Oct 2014.
- 3. UGC sponsored state level work shop on the game "SEPAK TAKRAW" organized by Department of Physical education, Sir M V Govt. Science College, Bommanakatte, Bhadravthi on 7th Feb 2015.
- 4. Attended Two days National seminar on "Trends in Drug Discovery and Development (TDDD-2019)" Organized by Dept. P G Studies and Research in Chemistry, Kuvempu university P G Centre, Kadur. 25-26th March-2019.

- 5. Attended the One Day National Level Webinar on "Cellular and Molecular Basis of Inheritance" organized by Shri Shivayogi Murughendra Swamiji Arts, Science and Commerce College, Athani. held on 22nd January 2022.
- 6. Attended the One Day National Level Webinar on "*Physical fitness and psychological wellbeing: COVID-19*" organized by Shri Shivayogi Murughendra Swamiji Arts, Science and Commerce College, Athani. held on 12th June 2021.
- 7. Participated on the 24th virtual Webinar on "Applications of N-Heterocyclic carbine complexes of cobalt in catalytic borylation reaction" organized by School of science, department of chemistry, REVA University, Bangaluru, held on 08th June 2021.
- 8. Participated in One Day National Level Webinar on "Awareness, Precautions and Treatment for Covid -19 and Related Fungal Infections in Present Scenario" organized by Shri Shivayogi Murughendra Swamiji Arts, Science and Commerce College, Athani, held on 6th June 2021.
- 9. participated in One Day National Level Webinar on "COVID-19 WHAT DO WE KNOW TILL NOW" organized by IQAC Sir M V Govt. Science College, Bommanakatte, Bhadravathi, held on 19th November 2020
- 10. participated in One Day National Level Webinar on "Potential Clinical Applications of Plant Based Natural Antioxidants to Combat COVID-19 Infections" organized by Department of Biotechnology in Association with IQAC Sir M V Govt. Science College, Bommanakatte, Bhadravathi, held on 12th Nov 2020.
- 11. participated in International e conference on "Impact Of Chromatography In The Pharmaceutical Industry" organized by I.D.S.G. Government College, Chikkamagaluru, held on 05th Nov 2020.
- 12. participated in International e conference on "Cyber Space And Its Safe Use" organized by Department of chemistry, I.D.S.G. Government College, Chikkamagaluru, held on 10th Nov 2020.
- 13. participated in International e conference on "Instruments Used in Advanced Chemical Analysis and Material Characterization" organized by I.D.S.G. Government College, Chikkamagaluru, held on 09th Nov 2020.
- 14. participated in International e conference on "Organizational Skills and Challenges" organized by Department of chemistry, I.D.S.G. Government College, Chikkamagaluru, held on 23rd Oct 2020.
- 15. Actively Participated in International Webinar on "Advancements In Chemical Sciences Towards COVID-19" Organised by Department Of Chemistry, Rani Channamma University, Belagavi held on 12th-13th June 2020.

Papers Presented in National/international Conference/ Seminars:

1. Mixed ligand Metal Complexes of Nickel(II); Synthesis, Characterization DNA Binding and Cleavage studies, National Conference on "Recent advances in Chemical biology and material Science-(RACBMS-2018)". Organized by Dept. P G Studies and research in Industrial Chemistry, Kuvempu university, jnana Sahyadri, Shankaragatta, 9-10 Feb 2018.

- 2. Studies on synthesis, Characterization and DNA interaction of Mixed Ligand Metal Complexes, "National Seminar on Recent trends in Chemical biology and material Science-(RTCBMS-2018)". Dept. P G Studies and Research in Chemistry, Kuvempu university P G Centre, Kadur. 26-27 Feb 2018.
- 3. Synthesis and Characterization of Quinoline based Schiff Bases; DNA Interaction studies, "New Vistas in Science and Technology for Common Good" 11th Annual Conference Karnataka Science and Technology academy In Association with NMKRV College for Women on 1st and 2nd February, 2019.
- 4. Synthesis, Characterization, DNA binding & photo cleavage activities of Schiff Base ligand and their Co(II) and Ni(II) complexes, in International Conference on "Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC)" Sponsored by University with Potential for Excellence (UPE), UGC Center for Materials Science & Technology (CMST), Vijnana Bhavan Manasagangothri, university of Mysuru, on 18 20 March 2019.
- 5. Synthesis, spectral and DNA interaction of N2O2 based tetradentate Acyclic ligand and their Cu (II) and Co (II) metal Complexes as Photosensitizer, in second National Conference on "Advanced Material for Health, Energy and Environment (AMHEE- 2019)" Oraganized by Department of Chemistry, JSS Science and Technology University, Mysuru on 6th and 7th Sep 2019.
- 6. Co (II) and Cu (II) Metal Complexes of pyrazolone based Azo-dye ligands: Synthesis, Characterization, DNA interaction and Molecular docking Studies, in the 1st international conference on "Life, Chemical and Health Science (ICLCHS)" Organized by Department of Life science Ramaiah College of Arts, Science & Commerce in Collaboration with KSTA.
- 7. Synthesis, characterization, DNA interaction and anti-bacterial studies of Cu(II), Co(II) and Ni(II) metal complexes containing azo-dye ligand, in Two days National Conference on "*Recent advances in Chemical biology and material Engineering-(RACBME)*, Organized by Dept. P G Studies in Chemistry & Department of Chemistry, Veerashaiva College, Ballari, on 30th and 31st Jan 2020. (Oral Presentation).
- 8. Design, Characterization, Electronic, Photocatalytic and Biological studies of Imine basedCu(II), Co(II), and Ni(II) Complexes, in Two Days National Conference on "Impact of Chemistry and Biology to the Society and Industry- (ICBSI-2022) Organized by the Dept. P G Studies and research in Industrial Chemistry, Kuvempu university, jnana Sahyadri, Shankaragatta, on 20th and 21st May-2022.

Workshop Attended:

1. Attended two days National Level Workshop on "Nuclear Magnetic Resonance Spectroscopy (WNMRS-2019)" organized by Department of Chemistry, the Gandhi gram, Rural Institute-Deemed University, Gandhi gram, Tamilnadu, on 22nd and 23rd March 2019.

Research paper Published:

- 1. Synthesis, characterization, DNA interaction and anti-bacterial studies of Cu(II), Co(II) and Ni(II) metal complexes containing azo-dye ligand. **B.R. Kirthan** ^a, M.C. Prabhakara ^{a*}, H.S. Bhojya Naik ^b, P.H. Amith Nayak ^b, E. Indrajith Naik ^b. **Chemical Data Collections,** Volume 29, 2020, 100506.
- 2. Effect of zirconium doping on the structural, optical, electrochemical and antibacterial Properties of ZnO nanoparticles prepared by sol-gel method. E. Indrajith Naik^a, H.S. Bhojya Naik^a, R. Viswanath^a, **B.R. Kirthan** ^b, M.C. Prabhakara^b. **Chemical Data Collections**, Volume 29, 2020, 100505.
- 3. Synthesis, Characterization and Luminescent Properties of Mixed-Ligand Nickel Complexes for Opto-Electronic Application. P.H. Amith Nayak, H.S. Bhojya Naik*, **B.R.Kirthan,** H.B. Teja and R. Viswanath. **Journal of Electronic Materials**, Volume 50, 2021, 4.
- 4. Synthesis and Optoelectronic properties of green light emitting metal Schiff base complexes. P.H. Amith Nayak, H.S. Bhojya Naik*, H.B. Teja, **B.R. Kirthan** and R. Viswanath. **Molecular Crystals and Liquid Crystals**, Volume 722, 2021, 67-75.
- 5. Structural, optical and photoluminescence enhancement of 2-mercaptoacetic acid capped Mn²⁺ doped CdS nanoparticles and their applications in efficient detection of latent fingerprints E. Indrajith Naik, H.S. Bhojya Naik, R. Viswanath, I.K. Suresh Gowda, **B.R. Kirthan, Materials Science for Energy Technologies**, 4 (2021) 23–33.
- 6. Optoelectronic, Photocatalytic and Biological studies of Mixed ligand Cd(II) Complex and its Fabricated CdO Nanoparticles. **B.R. Kirthan,** M.C. Prabhakara, H.S. Bhojya naik, R. Viswanath, P.H. Amith Nayak, **Journal of Molecular Structure**, 1244, (2021), 130917.
- 7. Green light emitting fluorescent [Zn (II)(Schiff base)] complexes as electroluminescent material in organic light emitting diodes. P.H. Amith Nayak, H.S. Bhojya Naik, R. Viswanath, **B.R. Kirthan**, **Journal of Physics and Chemistry of Solids**, 159, (2021), 110288.
- 8. Fabrication, depiction, DNA Interaction, anti-bacterial, DFT and molecular docking studies of Co(II) and Cu(II) complexes of 3-methyl-1-phenyl-4-[(*E*)-(pyridin-2- yl)diazenyl]-1*H*-pyrazol-5-ol ligand. **B.R. Kirthan**, M.C. Prabhakara ^{a*}, H.S. Bhojya Naik, S. Ravi Kumar, R. Viswanath, P.H. Amith Nayak, K.R. Kotresh. **Nucleosides, Nucleotides & Nucleic Acids**, (2021), doi: 10.1080/15257770.2021.1991373.
- 9. DNA interaction studies of Cu(II), Co(II), and Ni(II) chelates derived from schiff base ligand. Ereshanaik, M.C. Prabhakara, H.S. Bhojya Naik, **B.R. Kirthan**, H.M. Kumaraswamy, R. Sandeep Kumar Jain, **Journal of the Indian Chemical Society**, 99 (2022), 100288.
- 10. Optoelectronic, Photocatalytic, and DNA interaction studies of synthesised Cu(II), Co(II), and Ni(II) complexes containing schiff base ligand. **B.R. Kirthan,** M.C. Prabhakara, H.S. Bhojyanaik, P.H. Amith Nayak, R. Viswanath, H.B. Teja, Ereshanaik. **Inorganic Chemistry Communications**, 135, (2022), 109109.

 Combustion-assisted green-synthesized magnesium-doped cadmium ferrite nanoparticles for multifunctional applications. Vishnu G, H. S. Bhojya Naik, R. Viswanath, B. R. Kirthan, P. H. Amith Nayak, Mohammed Abdullah Bajiri. New Journal of Chemistry, (2022), 10.1039/d1nj05156c.

Declaration:

The above-mentioned information is correct to the best of my knowledge. I shall work to best of my abilities and try to live up to your expectations.

Date: 25-10-2023. Place: Bhadravathi.

Government of Karnataka Department of Collegiate Education

Sir M.V. Government Science College

Bommanakatte, Bhadravathi -577302

Office of the Principal Phone & Fax: 08282-270296

Email: sirmvgscbbdvt@gmail.com
Website: httpp://sirmvgcs.co.in

Date: 10-07-2021

Sir,

Sub: Teaching Experience Certificate.

With reference to the above subject, **Dr. B.R. Kirthan** worked as a Guest faculty in the Department of P G Studies and Research in Industrial Chemistry in our college from 03-08-2015 to 03-01-2018. During this period, he worked with best of his knowledge, dedication and sincerity. The detailed work experience will be given below.

03-08-2015 to 30-04-2016

01-08-2016 to 30-04-2017

& 01-08-2017 to 03-01-2018.

Thanking you,

SIR M.V. GOVT. SCIENCE COLLEGE BHADRAVATH!-577302



Sir M.V. Government Science College

Bommanakatte, Bhadravathi -577302

Office of the Principal

Phone & Fax: 08282-270296 Email: <u>sirmvgscbbdyt@gmail.com</u>

Website: http://sirmvgsc.co.in

Date: 10-07-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. B.R. Kirthan is working as a Research Scholar under the supervision of Dr. M.C. Prabhakara. He was admitted to our institution on 03-01-2018. And his registration is/was effective from 03-01-2018. with registration No. 429, 03-01-2018 (Full Time). His area of research is

Studies on Synthesis, Characterization, and DNA Interaction of Some Metal Complexes.

His experience as Research Scholar is **Three (3)** years **Seven (7)** months.

It is certified that this institute is recognized by State/Central Government.

It is also certified that candidate has availed <u>26</u> number of leaves during his research tenure.

Date: 10-07-2021.

Signature with Seal of Registrar/Chairman/Dean/Principal/Head of institution

PRINCIPAL SIR M.V. GOVT. SCIENCE COLLEGE BHADRAVATH!-577302



Dr. H.S. Bhojya Naik, M.Sc., Ph.D

Professor

Email: hsb naik@rediffmail.com

Ph: +91-9448438281

Dept. of Studies and Research in Industrial Chemistry School of Chemical Sciences Jnana Sahyadri, Kuvempu University Shankaraghatta- 577 451,

Shimoga Dist., Karnataka, INDIA.

TESTIMONIAL

It is indeed with great pleasure to me write the recommendation letter to **Dr. B R Kirthan,** who has applied for the post of Assistant / Associate Professor in Department of Chemistry in your organization. Dr. Kirthan B.R., is personally known for the past Nine years when he joined for his M.Sc., programe in department of P.G. studies and research in industrial chemistry, Sir M.V. Govt. Science College. Further he joined for full time Ph.D. programe under my Co-guidance for which he was awarded Devaraja Urs Research Fellowship in the year 2018. He worked on "Synthesis, Characterization and DNA interactionstudy of some metal complexes", in which he has published 11 research articles in reputed peer reviewed International/National journals and actively participated and presented his research findings in various International/National conferences. He was always interested in new thinks besides this he was thorough and comprehensive in his research work. Apart from research Dr. B R Kirthan, has actively involved in co-curricular activities in academic along with teaching practice of 02 years for PG programe and also helped in conducting seminars, preparing project proposals. He maintains good relationship with the colleagues. I found him asincere, dedicated, enthusiastic in his research and academics.

He is always keen and a fast learner of new ideas. So, I have no hesitation in recommending, **Dr. B R Kirthan** for the post of Assistant / Associate Professor in Department of Chemistry in your organization, I hope he will meet your expectations. I would more to be delighted to provide any other information as and when required to take a most positive decision in this regard.

I wish him all the best for his future.

(Dr. H.S. Bhojya Naik)



Government of Karnataka Department of Collegiate Education

Sir. M.V. Government Science College

Bommanakatte, Bhadravathi, Shimoga (Dist) – 577 302

Dr. Prabhakara M.C. _{M.Sc., Ph.D}
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E-mail: prabhamustur@gmail.com

TESTIMONIAL

I am glad to give the recommendation regarding the capabilities and potential of **Dr. B R Kirthan** who is known to me since 2013 as a student in Dept. of P G Studies and Research in Industrial Chemistry our college, he has obtained his master degree in the year 2015. In the year 2018 he joined for doctorate studies under my guidance for which he has been awarded Devaraj Urs Fellowship. He awarded doctoral degree Ph. D. on the title "Synthesis, Characterization and DNA interaction study of some metal complexes", in which he has published 11 research articles in reputed peer reviewed International/National journals and actively participated and presented his research findings in various International/National conferences. His keen of learning was reflected in the form of his visit to several Institutions and Universities in the form of conferences, workshops, where he also presented his work. Besides being a good student and researcher, he is sincere, hard working.

Dr. B R Kirthan has endeared himself in teaching practice for post graduate students for 02 years, along with this he is also involved in co-curricular activities in the academic in the form of guiding project for post graduate students, seminars and designing project proposals.

Hence in view of his success in research and academic career I am very much happy to recommend **Dr. B R Kirthan** for the post of Assistant/Associate Professor in Department of Chemistry in your organization, I hope he will stand up to your expectations.

I wish him all the best for his future journey.

(Dr. M.C. Prabhakara)