

A Brief Curriculum Vita Of Prof. H.S. Bhojya Naik

Personnel Data

Name : Halehatty Seethya Naik Bhojya Naik

Education:

Ph.D. in Inorganic Chemistry : Dept. of Chemistry, University of Mysore, Mysore.

M.Sc in Chemistry : Dept. of Chemistry, University of Mysore, Mysore.

➤ **Present Position** : **Registrar**
Kuvempu University

➤ **Professional Experience:**

* **Teaching Experience** : 19 years

❖ **Professor**
Department of Industrial Chemistry
Kuvempu University

❖ **Associate Professor**
Department of Industrial Chemistry
Kuvempu University

❖ **Assistant Professor**
Department of Industrial Chemistry
Kuvempu University

❖ **Lecturer**
Govt. College, Raichur.

❖ **Guest Lecturer**, Dept. of Polymer Science,
P.G. Center, University of Mysore, Mandya

➤ **Research Activities**

Current Research area	Bio-inorganic Chemistry, Nano material Chemistry	
Research Experience	19 Years	
Patent/s	01. Indian Provisional Patent Application No. 32/CHE/2015 , Filed on: January 02, 2015 Title: “ANTIMICROBIAL COMPOUNDS, SYNTHESIS AND APPLICATIONS THERE OF” K&S Ref.: IP29190/YK/aa	
Research Publication in peer review National and International Journals	165	
Review Articles	01	
Papers Presented in Seminars / Symposia / Conferences in India and abroad	88	
Research Guidance and Supervision	a) Ph.D. successfully guided	21
	b) Ph.D. under guidance	05
	c) Post Doctoral Fellows	02
Research Supervision as Co-guide	a) Ph.D. successfully guided	07

➤ **Visited Abroad: (International Research Activities)**

USA, Thailand, UK, France, Switzerland, Germany, Czech Republic, Norway, Austria, Netherland.

Delivered Invited talks/Interacted with research groups/Attended Seminars/ Workshops /Meeting

Sl.No	Country	Year
1.	Department of Chemistry, Imperial College London, London, UK.	2012
2.	Department of Chemistry, Hull University, Hull, UK	2012
3.	Department of Polymers and Composites Technology & mechanical engineering, University Lille Nord de France, Douai Cedex, France.	2012
4.	Prof. Bruno Therrien Department of Chemistry, University of Neuchatel, Switzerland.	2012
5.	Prof. Gerd Vegarud Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Norway.	2012
6.	Heinrich Pette Institute, Leibniz Institute for Experimental Virology Department of Cell Biology and Virology Martinistrasse 52, Hamburg, Germany.	2012
7.	Prof. Jiri Barek Department of Chemistry, Univerzita Karlova, Prague, Czech Republic.	2012
8.	Department of Chemical Engineering, University of Amsterdam, Delphi, Netherland.	2012
9.	International Conference entitled “International Conference on Biological Inorganic Chemistry” which was held at Periyar University, Periyar, Salem, Tamilnadu, INDIA	2013

➤ **Collaboration for Research with Institute/ University and Industries.**

Bhabha Atomic Research Center-BARC, Mumbai.

Indian Institute of Science, IISc. Bangalore.

National college of Pharmacy, Shimoga,

Basaveshwara College, Chitradurga,

Biocon International, Bangalore,

Syngene International, Bangalore,

Anthem Bioscience Pvt India Ltd, Bangalore,

BASF India Private Ltd, Mangalore,

Apotex International (MNC), Bangalore

Tetrahedron India pvt. Ltd, Bangalore.

➤ **Consultancy** : Mysore Paper Mills, Bhadravathi.

➤ **Academic membership:**

✚ Life member of Crystal Growth Center, Chennai

✚ Life member of International Society of Teachers and Researchers in Chemistry (ISTRC)

✚ Member of National Academy of Science, India

✚ Member of Indian Council of Chemists.

✚ Member of Indian Science Congress.

✚ Member of BOS in Industrial Chemistry, Kuvempu University, Shankaraghatta

✚ Member of BOS in Chemistry, University of Mysore, Mysore

✚ Member of BOS in Chemistry, Kuvempu University, Shankaraghatta

✚ Member of BOS in Chemical Engineering, JNTU, Hyderabad

✚ Member of BOE in Chemistry, S.K. University, Ananthpur

✚ Chairman of BOE in Industrial Chemistry, Kuvempu University, Shankaraghatta

✚ Member of BOE in Chemistry, University of Mysore, Mysore.

✚ Member of BOE in Chemistry, Gulbarga University, Gulbarga.

➤ **Other Academic Activities**

❖ **Organizing programmer, Seminars /Symposia/ Conferences/workshop.**

Sl. No.	Title	Position	Year
01	Impact of Chemical biology to Society	Convener	2012
02	Frontier areas in chemical science and Nanotechnology(Two Days National Conference)	Convener	2010
03.	Chemistry and Molecular nanotechnology for Industry and Society (Two Days National Conference)	Convener	2009
04.	Motivative Programme for SHG's, SSG's and unemployed youth (<i>One day seminar</i>)	Coordinator	2008
05.	Enormity of Chemical Sciences in Industrial Chemistry	Coordinator	2007
06.	Emerging Areas in Chemical and Biological Sciences	Coordinator	2007
07.	Chemical Sciences for Industry and Society (<i>Three day National Conference</i>)	Organizing Secretary	2006
08.	Recent Advances in Electrochemical and surface Sciences for industry and Society.(<i>Two day National seminar</i>)	Co-Convener	2004
09.	Scenario of Research & Business Opportunities in Medicinal and Aromatic Plants in 21 st century.	Treasurer	2003
10.	Chemistry for changing Times <i>National workshop</i>	Secretary	2002
11.	UGC sponsored Refresher course in Chemistry	Co-onvener	2004
12.	UGC sponsored Refresher course in Chemistry	Convener	2004
13.	UGC sponsored Refresher course in Chemistry	Convener	2005

❖ **Attending workshops/Schools**

Title	Year
Participated in Royal Society Satellite meeting on Photoactivatable metal complexes: exciting potential in biotechnology and medicine? June-2012. The Royal Society, Chicheley hall, Home of Kavli Royal Society International Centre, London.	2012
Participated in Royal Society Scientific discussion meeting on Photoactivatable metal complexes: from theory to therapy June-2012. The Royal Society, Chicheley hall, Chicheley, London.	2012
Winter School in Bioinorganic Chemistry, IIT, Bombay, Mumbai.	2007.
Workshop on National academy of Sciences, India	2006
Workshop on Bioinorganic Chemistry, IISc, Bangalore	2005
Work shop on Crystal Growth and Characterization, Crystal Growth Center Chennai	2003.

❖ **Edited the Conference Souvenir / Prepared study material for M.Sc Distance Education**

Sl. No.	Title of the book	Publisher
1.	National Conference on Chemistry and Molecular nanotechnology for Industry and Society (Conference Proceedings)	Department of Industrial Chemistry
2.	National Conference on Chemical Science for Industry and Society (Conference Proceedings and Souvenir)	Prasaranga (Kuvempu University)
3.	National Conference Emerging areas on Chemical and Biological Sciences	Department of Chemistry
4.	Study material for M.Sc., Chemistry and Applied Chemistry	DDE, Kuvempu University
5.	National Conference on Frontier areas in chemical science and Nanotechnology	Department of Industrial Chemistry
6.	National Conference on Impact of Chemical biology to Society	Department of Industrial Chemistry

➤ **Research**

❖ **Sponsored Projects**

Sl. No.	Title of the project	Position	Funding Agency	Duration	Amount Sanctioned in Rupees	Progress
01.	Development of metal based photosensitizer for photodynamic therapy	Principal Investigator	BRNS	2010-2013	19,50,000	Completed
02.	M.Tech in Nanoscience and Nanotechnology	Programme Coordinator	DST	2008-2012	2,87,00,000	Ongoing
03.	Synthesis of metal complexes with fused Aromatic ligands as potential agents in anticancer treatment: QSAR, DNA binding and cleavage studies	Principal Investigator	UGC	2008-2011	7,08,756	Completed
04.	Studies on DNA binding and cleavage studies by Cyclic Voltammetry	Principal Investigator	Whichita State University. USA.	2008-2011	12,20,000	Completed
05.	DST-FIST	Principal Investigator	DST	2003-2008	22,00,000	Completed
06.	Carrier Oriented Program	Co-ordinator	UGC	2008-2009	7.00000	Completed
07.	Non-Self Assistance Program	Co-ordinator	UGC	2008-2009	10.0000	Ongoing
08.	Consultancy	Co-ordinator	Mysore Paper Mills BDVT	2007-2009	8.50000/year	Ongoing
09.	Development of Nano Titanium Oxide based Transition Metal compounds thin film for Thermal Sensors applications.	Principal Investigator	NRB	2008-2009	10,00000	Completed
10.	Isolation of Curcumin, synthesis of metal complexes and study of their pharmacological activity	Principal Investigator	UGC unassigned grant	2003-2004	35,000	Completed

Ph.D's guided:

Sl. No.	Name	Title of Thesis	Year
01.	Dr. B.P. Nandeeshwarappa	Studies on novel condensed heterocyclic compounds: Condensed Quinolines	2006
02.	Dr. B. Basavaraju	Studies on the synthesis, structure and biological activity of metal complexes of some novel ligands.	2006
03.	Dr. Prabhakara M.C.	Studies on synthesis, DNA binding, oxidative and Photonuclease activity of heterocyclic novel ligands and their transition metal complexes	2007
04.	Dr. M. Raghavendra	Quinoline derivatives: Studies on the novel selenium and sulfur containing pharmacologically important heterocyclic compounds	2007
05.	Dr. T.R. Ravikumara Naik	Synthesis of biologically active novel Naphthyridine derivatives: Studies on DNA binding, Cleavage and Antioxidant activity.	2008
06.	Dr. Ramesha S.	Synthesis and characterization of some biologically important quinoline derivatives	2008
07.	Dr. H.R. Prakasha Naik	Studies on TiO ₂ Nanoparticles in synthesis of some novel Heterocycles: DNA Nuclease and Pharmacological activities of Quinolines and Metal Complexes	2009
08.	Dr. S.R. Gopalakrishna Naik	Studies on synthesis, DNA binding, oxidative and photonuclease activity of heterocyclic novel ligands and their transition metal complexes	2009
09.	Dr. C.N. Sudhamani	Photocleavage of DNA Mediated by metal complexes of heterocyclic compounds and Peptides	2009
10.	Dr. T. Aravinda	Synthesis of quinoline fused peptidomimetics: Studies on DNA binding and Photonuclease activity	2009
11.	Dr. Rajesha	Synthetic studies on Coumarins of biological importance.	2009
12.	Dr. Ahmed Al-Kathani	Polymeric Interpenetrating networks and blen compatability studies: Synthesis, Characterization and Biomedical Applications	2009
13.	Dr. Lokesh S.V.	Voltammetric Investigations of some electroactive species of Biological importance estimation	2008
14.	Dr. Sreekanth B	Synthesis of Transition Metal complexes containing biologically active ligands: DNA binding and Cleavage studies	2012

15.	Dr. Kusum S.Akki	Chemical investigations and pharmacological studies of leaves of Actinodaphne Hookeri and Nyctanthes Arbor-Tristis	2013
16.	Dr. Vinay Kumar. B	Synthesis, Characterization of Metal Complexes and Nanoparticles: Binding and Reactivity with DNA	2013
17.	Dr. Shashikumar N.D.	Studies on ring change tautomerization of γ -keto acids: Investigation of new aldehyde ketone derivatives and their pharmacological activities	2013
18.	Dr. Sharath. N	Development of Artificial photo sensitizers for Photodynamic Therapy: Studies on Heterocyclic conjugate Peptides and Metal Complexes as DNA Binding and Photo cleaving Agents.	2013
19.	Dr. Girija. D	Studies on Synthesis, Characterization and Reactivity of Metal Nanoparticles	2013
20.	Dr. Bhimagouda S. Patil	Synthesis of nitrogen heterocycles of biological interest	2013
21.	Dr. Harish K.N	Studies on synthesis, characterization and optical properties of nanomaterials.	2013
22.	Dr. Prashanth Kumar. P.N.	Design and Development of semiconducting thin films for future energy crisis.	2014
23.	Dr. Govinda Rajulu Gavara	Design and Synthesis of Novel Fluoroquinolones as an antibacterial agents	2014
24.	Dr. Yashavanth Kumar G.S	Design and Development of metal Nanocomposites: Thin films and Optoelectronic applications.	2014
25.	Dr. R. Viswanath	Studies on Synthesis, Characterization of Metal Based Nanomaterials as Optical and Biological Agents.	2014
26.	Dr. Sangeetha Gowda. K.R	Synthesis, characterization of macrocyclic metal complexes and nanomaterials: Studies on DNA binding cleavage.	2014
27.	Dr. Pradeepa. S.M	Development of Metal based Photosensitizers: Studies on Synthesis, Characterization, DNA Binding and Photo Cleavage Activity”	2015
28.	Dr. Vinuth M.	Fe-type Smectite(Montmorillonite) for remediation of environmental toxicants.	2017

➤ **Ph.D. under guidance:**

Sl. No	Name	Title of Thesis	Working /Submitted
01.	Arun Kumar G.	Studies on Surface modified metal nanoparticles; Optical and biological applications	Submitted
02.	Suresh Gowda I.K.	Design and Development of Transition and Inner transition metal nanocomposites of biological importance	Working
03.	Giridhar M.	Synthesis and Characterization of functionalized nano material with photo responsive compounds and its biological applications	Working
04.	Madhukar Naik M.	Development of metal doped ferrite nanocomposites for optical and photocatalytic applications.	Working
05.	S.B. Patil	Preparation, characterization of ferrite nanocomposite materials and their photocatalytic activities.	Working
06.	Amith Nayak P.H.	Design and Development of metal based materials for opto-electronic applications.	Working
07.	Teja H.B.	Development of new metal based photosensitizers for photodynamic antimicrobial chemotherapy an alternative approach to antimicrobial drugs.	Working
08.	Mohammed Abdullah Mohammed Bajiri	Nanoparticles for photo catalytic applications.	Working

➤ **M.Phil**

Sl.No.	Name	Title of Thesis	Year
01.	Girija.D	Quinoline derivatives: synthesis, studies on DNA binding and antimicrobial activity.	2008
02.	Yogesh. M	Studies on silver nanoparticles: synthesis, characterization and antimicrobial activity.	2008
03	Purushotham	Synthesis and characterization of quinoline based diazo compounds.	2008
04	Venkateswara. B	Extraction, Phytochemical investigation and antimicrobial studies of spilanthes calva, plant and synthesis, study of 1,2,3-triazoles, benzoxazole.	2009

➤ Published Research Articles

1. Naveen Aradhya S.V, Vishnumurthy K. A, **H.S. Bhojya Naik**, Manjuraj.T, Jayanna N D. Metal Complexes of quinolin-8-yl (1, 3-benzoxazol-2-ylsulfanyl)acetate: Spectral, XRD, thermal, molecular docking and biological evaluation. *Journal of Applied Chemistry (IOSR-JAC)*, Vol 10, Issue 6 2017, PP 36-43.
2. Naveenaradhya S.V, Vishnumurthy K.A, **H.S. Bhojya Naik**, Manjuraj.T, Jayanna N D, Yuvaraj TCM. Mohammed Shafeeulla R. Metal Complexes of S-(5-chloro-1,3-benzoxazol-2-yl)thiophene-2-carbothioate: Spectral, XRD, thermal, molecular docking and biological evaluation. *Journal of chemistry and chemical sciences*. 2017 (Accepted).
3. Spectral thermal cytotoxic and molecular docking studies of N 0 -2-hydroxybenzoyl; pyridine-4-carbohydrazide its complexes, R. Mohammed Shafeeulla, G. Krishnamurthy, **H.S. Bhojya Naik**, H.P. Shivarudrappa, Yallappa Shiralgi. Beni-Suef University Journal of Basic and Applied Sciences. 2017 (Accepted).
4. Synthesis of 3-methyl-1phenyl-4-(thiazol-2-yl)-1H-pyrazol-5(4H)-one via Sandmeyer Reaction and their Transition Metal Complexes; Spectral, XRD, Cytotoxicity, Molecular docking and Biological Evaluation Mohammed Shafeeulla R, Ganganai Krishnamurthy, **Halehatti S Bhojya Naik**, Yuvaraj TCM, Manjunath Bhat. *Der Pharma Chemica*, 2017, 9(15):19-26.
5. Synthesis, Cytotoxicity, and Molecular Docking Study of Complexes Containing Thiazole Moiety Mohammed Shafeeulla R, Ganganai Krishnamurthy, **Halehatti S. Bhojya Naik**, Manjuraj T. *JOTCSA*. 2017; 4(3): 787-810.
6. Synthesis, characterization, spectral, thermal, molecular docking and biological studies of benzimidazol- 2 -ylmethyl) – 2 - (pyridin – 4 - ylcarbonyl) hydrazinecarbothioamide and their Co(II), Ni(II) and Cu(II) complexes Manjuraj T., G Krishnamurthy, Yadav D. Bodke, **H.S. Bhojya Naik**, Shashikumar N D, Yuvaraj TCM, *IOSR-JAC*) 10, 7, 2017, 71-79.
7. Metal complexes of quinolin-8-yl [(5-methoxy-1H-benzimidazol-2-yl)sulfanyl]acetate: Spectral, XRD, thermal, cytotoxic, molecular docking and biological evaluation, T. Manjuraj, G. Krishnamurthy, Yadav D. Bodke, H.S. Bhojya Naik, *Journal of Molecular Structure*. 2017 (Accepted).
8. S.K. Rashmi, **H.S. Bhojya Naik**, H. Jayadevappa, C.N. Sudhamani, S.B. Patil, M. Madhukara Naik, Influence of Sm³⁺ ions on structural, optical and solar light driven photocatalytic activity of spinel MnFe₂O₄ nanoparticles, *Journal of Solid State Chemistry*. (Accepted-2017).
9. S.K. Rashmi, **H.S. Bhojya Naik**, H. Jayadevappa, R. Viswanath, S.B. Patil, Solar light responsive Sm-Zn ferrite nanoparticle as efficient photocatalyst, *materials science and engineering B*, 225 (2017), 86-97).
10. Sunitha Patil, **H.S. Bhojya Naik**, R. Viswanath, Synthesis of visible light active Gd³⁺ substituted ZnFe₂O₄ nanoparticles for Photocatalytic and antibacterial activities, *The European Physical Journal Plus*, (2017), 132:328, 1-12.
11. G. Arun Kumar, **H.S. Bhojya Naik**, R. Viswanath, M. Vinuth, I.K. Suresh Gowda, Optical Characterization of EDTA-assisted CdS:Mn Nanoparticles Synthesized by Sonochemical Method. *Materials today: Proceeding*. (Accepted) 2017.
12. Chittanahalli N. Sudhamani, **Halehatti S. Bhojya Naik**, Kalligundi R. Sangeetha Gowda, Manju Giridhar, Dugganna Giriya, Pasupanetti N. Prashanth Kumar, Novel iron phenanthroline-based photosensitizers for antimicrobial PDT: synthesis, DNA binding and photo-induced DNA cleavage activity, *Med Chem Res*, DOI 10.1007/s00044-017-1831-z. 2017.

13. R. Viswanath, **H.S. Bhojya Naik**, G. Arun Kumar, Suresh Gowda I.K, S. Yallappa, "Tunable luminescence properties of EDTA-assisted ZnS:Mn nanocrystals from yellow-orange to red emission band", *Luminescence: The Journal of Biological and Chemical Luminescence* (Accepted). (Wiley) DOI 10.1002/bio.3313.
14. Chittanahalli N. Sudhamani, **Halehatty S. Bhojya Naik**, Kalligundi R. Sangeetha Gowda, Manju Giridhar and Dugganna Girija. New Insights into the DNA Interactions of Novel Ru(II) Complexes of Chromeno[2,3-b]Quinoline and Fused Aromatic NN- Incorporated Ligands. *Journal of Applicable Chemistry*. 2017, 6 (1): 84-93
15. M. Giridhar, **H.S. Bhojya Naik**, R. Vishwanath, C.N. Sudhamani, M.C. Prabhakara, R. Kenchappa, Preparation of azo-dye sensitized TiO₂ photocatalyst for inhibition of E-Coli bacteria under visible light irradiation, *Materials today: Proceeding*. (Accepted) 2017.
16. G. Arun Kumar, **H.S. Bhojya Naik**, R. Viswanath, I.K. Suresh Gowda, M. Vinuth, Investigation on the structural and optical properties of hexamethylenetetramine (HMTA) capped ZnS:Mn nanocrystals synthesized by microwave irradiation method *Materials today: Proceeding*. (Accepted) 2017.
17. G. Arun Kumar, **H.S. Bhojya Naik**, R. Viswanath, I.K. Suresh Gowda, K.N. Santhosh, Tunable emission property of biotin capped Gd:ZnS nanoparticles and their antibacterial activity, *Materials Science in Semiconductor Processing*, 58, 2017, 22-29. IF-2.264. ISSN-1369-8001.
18. M. Vinuth, **H.S. Bhojya Naik**, M. M. Mahadev Swamy, B.M. Vinoda, R. Viswanath, H. Gururaj, Rapid adsorption of malachite green dye using eco-friendly Fe (III) - montmorillonite: Effective clay mineral for dye effluents containing, *Advanced materials letters*, 2017, 8 (1), 49-57.
19. Abhishek A.; Kannan T.; **Halehatty S. Bhojya Naik**.; Abdul G. S. 6,7-dimethoxy-quinazolin-4-yl-amino-nicotinamide derivatives as potent inhibitors of VEGF receptor II, *Journal of Heterocyclic Chemistry*. (2016) JHET2750 (Available online with (DOI): 10.1002/jhet.2750)
20. Abhishek A.; Kannan T.; **Halehatty S. Bhojya Naik**.; Soma G. 6,7-dimethoxy-quinazolin-4-yl-amino-thiophene-2-carboxamides as potent inhibitors of VEGF receptors 1 & 2, *Journal of Heterocyclic Chemistry*. (2016) JHET2675 (Available online with (DOI): 0.1002/jhet.2675)
21. Abhishek A.; Kannan T.; **Halehatty S. Bhojya Naik**. N.; Rajendraswami M. Novel aryl-modified benzoylamino-N-(5,6-dimethoxy-1H-benzimidazol-2-yl)-heteroamides as potent inhibitors of VEGF receptors 1 and 2, *Journal of Heterocyclic Chemistry* (2016) JHET 2791 (Available online with (DOI): .1002/jhet.2791)
22. Abhishek A.; Kannan T.; **Halehatty S. Bhojya Naik**.; Soma G. Novel 4-(5-(substituted-1,2,4-oxadiazol-3-yl)-phenylamine derivatives of 6,7-Dimethoxy-quinazolines as potent inhibitors of VEGF receptors I and II. *Asian Journal of Chemistry*, 2016, 28, 10, 2122-2130.
23. M. Vinuth, **H.S. Bhojya Naik**, M.M. Mahadev Swamy and M.C. Prabhakara, Environmentally benign Fe(III) Montmorillonite for rapid adsorption of methylene blue dye in aqueous medium under ambient conditions *Fashion and textiles*, 2016.
24. M. Vinuth, **H.S. Bhojya Naik**, B.M. Vinoda, S.M. Pradeepa, Arun Kumar G and Chandrasekhar K, Rapid Removal of Hazardous Rose Bengal Dye Using Fe(III)-Montmorillonite as an Effective Adsorbent in Aqueous Solution, *Journal of environmental and analytical toxicology*, 2015 5:336
25. M. Vinuth, **H.S. Bhojya Naik**, Jayappa Manjanna, Remediation of hexavalent chromium from aqueous solution using clay mineral Fe(II)-montmorillonite: Encompassing anion exclusion impact, *Applied Surface Science*, 357, 2015, 1244-1250. IF-3.150, ISSN-0169-4332.
26. M. Vinuth, **H.S. Bhojya Naik**, K. Chandra Sekhar, J. Manjanna, B.M. Vinoda, Environmental remediation of hexavalent chromium in aqueous medium using Fe(II)-montmorillonite as

reductant. *Procedia Earth and Planetary Science* (2015), 275-283. DOI: 10.1016/j.proeps.2015.06.036

27. C.N. Sudhamani, **H.S. Bhojya Naik**, K.R. Sangeetha Gowda, M. Giridhar, D. Girija, P.N. Prashanth Kumar, Synthesis, DNA interactions and antibacterial PDT of Cu(II) complexes of phenanthroline based photosensitizers via singlet oxygen generation, *SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy*, Volume 138, 5 March 2015, Pages 780-788.
28. S.M. Pradeepa, **H.S. Bhojya Naik**, B. Vinay Kumar, K. Indira Priyadarsini, AtanuBarik, S. Jayakumar, Synthesis and characterization of cobalt(II), nickel(II) and copper(II)-based potential photosensitizers: Evaluation of their DNA binding profile, cleavage and photocytotoxicity, *InorganicaChimicaActa* 428 (2015) 138–146.
29. S.M. Pradeepa, **H.S. Bhojya Naik**, B. Vinay Kumar, K. Indira Priyadarsini, AtanuBarik, M.C. Prabhakara, DNA binding, photoactivated DNA cleavage and cytotoxic activity of Cu(II) and Co(II) based Schiff-base azo photosensitizers, *Spectrochim. Acta, Part A* 141 (2015) 34–42.
30. R. Viswanath, **H.S. Bhojya Naik***, G.S. Yashavanth Kumar, P.N. Prashanth Kumar, K.N. Harish and Prabhakara M.C. "Luminescence properties of blue-red emitting multilayer coated single structure ZnS/MnS/ZnS nanocomposites", *SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy*, 125C (2014) 222-227, <http://dx.doi.org/10.1016/j.saa.2014.01.022>.
31. R. Viswanath, **H.S. Bhojya Naik***, G.S. Yashavanth Kumar, P.N. Prashanth Kumar, K.N. Harish and Prabhakara M.C., "Studies on Characterization, Optical Absorption and Photoluminescence of Yttrium doped ZnS Nanoparticles", *Journal of Nanotechnology Hindawi publisher*, <http://dx.doi.org/10.1155/2014/924797>.
32. R Viswanath, **H. S Bhojya Naik***, G.S. Yashavanth Kumar, P.N. Prashanth Kumar, K.N. Harish, M.C Prabhakara, R Praveen, "Synthesis and photoluminescence enhancement of PVA capped Mn²⁺ doped ZnS nanoparticles and observation of tunable dual emission: A new approach", *Applied Surface Science*, <http://dx.doi.org/10.1016/j.apsusc.2014.02.013>.
33. R. Viswanath, **H.S. Bhojya Naik***, G.S. Yashavanth Kumar, P.N. Prashanth Kumar, Arun Kumar G. and Praveen R, "EDTA-assisted hydrothermal synthesis, characterization and photoluminescent properties of Mn²⁺-doped ZnS", *Journal of Luminescence*, **153,2014, 446-452**.
34. C.N. Sudhamani, **H.S. Bhojya Naik***, D. Girija, K.R. Sangeetha Gowda, M. Giridhar, T. Arvinda, "Novel complexes of Co(III) and Ni(II) containing peptide ligands: Synthesis, DNA binding and photonuclease activity", *SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy*, 118, (2014) 271-278.
35. C.N. Sudhamani, **H.S. Bhojya Naik***, K.R. Sangeetha Gowda, M. Giridhar "Synthesis, DNA Binding, Photo Nuclease and Antibacterial PDT of Iron Complexes of Phenanthroline Based Photosensitizers", *Am. J. PharmTech Res.* 4(1) (2014) 946-961.
36. D. Girija, **H.S. Bhojya Naik**, B. Vinay Kumar, C.N. Sudhamani, K.N. Harish Fe₃O₄ nanoparticle supported Ni(II) complexes: A magnetically recoverable catalyst for Biginelli reaction *Arabian Journal of Chemistry*, (2014), doi:10.1016/j.arabjc.2014.08.008.
37. Sangeetha Gowda K.R., Blessy Baby Mathew, C.N. Sudhamani, **H.S. Bhojya Naik***, "Mechanism of DNA Binding and Cleavage", *Biomedicine and Biotechnology*, 2 (2014) 1-9. (Review).
38. DNA binding, In silico Docking and In vitro biological screening of some transition metal complexes of Schiff base ligand as potential blockers of cancer causing receptors M R Lokesh, G Krishnamurthy, **H S Bhojyanaik**, N.D. Shashikumar, P. Murali Krishna *International Journal of ChemTech Research* (Jan-March 2014) Vol.6, No.1, pp 150-162, ISSN : 0974-4290

39. Synthesis, molecular docking, DNA binding and biological evaluation of Schiff base transition metal complexes M. R. Lokesh, G. Krishnamurthy, **H. S. Bhojya Naik**, N. D. Shashi kumar, P. Murali Krishna, B. Sreekanth. *Der Pharma Chemica*, **2014**, 6 (6):192-202. ISSN 0975-413X
40. DNA Binding and Cleavage Studies of Cobalt Complexes Containing Bioactive Mixed Ligands B. Sreekanth, G. Krishnamurthy, **H. S. Bhojya Naik**, T. K. Vishnuvardhan, M. R. Lokesh. *Trends in Chemical Engineering TCE (2014)* 49-56, STM Journals. Volume 1, Issue 1
41. Synthesis of new biphenyl-substituted quinoline derivatives, preliminary screening and docking studies Nellisara shashikumar, Ganganaika Krishnamurthy, **Halehatti Bhojya Naik**, mayasandra lokesh, K.S. jithendra kumara. *J. Chem. Sci.* Vol. 126, No. 1, January **2014**, pp. 205–212.
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- Complexes of divalent cadmium with N,N-Dimethyl-3-dibenzo[b,e] oxepin-11-(6H)-ylidene-(1-propoamine) Chloride: Synthesis, structural elucidation and evaluation of thermal degradation kinetics, **Bhojya Naik, H.S.**, Chetana, P.R. and Revanasiddappa, H.D.. *Journal of Indian Chemical Society*, 79 (2002) 955-957.
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159. Spectral, Thermal and Decomposition Kinetics of Cd(II) imipramine complexes, **Bhojya Naik, H.S.**. *Indian J Teach. Reas. Chem*, 8(1) (2001) 35-41.
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➤ **Papers presented in International conferences/seminars/Symposium (Abroad)**

1. Participated in Royal Society Satellite meeting on Photoactivatable metal complexes: exciting potential in biotechnology and medicine, *June-2012. The Royal Society, Chicheley hall, Home of Kavli Royal Society International Centre, London.*
2. Participated in Royal Society Scientific discussion meeting on Photoactivatable metal complexes: from theory to therapy June-2012. *The Royal Society, Chicheley hall, Chicheley, London.*
3. Mononuclear Cu(II) and Co(II) complexes of photo chromic ligands as a new class of photosensitizers: DNA binding and near-infrared light induced DNA cleavage studies. *GECOM-CONCOORD June-2012, Metabief, France.*
4. Metal Complexes of New Tetraazamacrocyclic Constrained Oxadiazole Ring as Subunits: Synthesis, DNA Binding and Photonuclease Activity. *Indian Council of Chemist Conference (ICCC-2011)- Bangkok.*
5. Studies on synthesis, conductivity and dielectric properties of pani/ Fe₃O₄-ZnO composite thin films. International symposium on Functional Pi-electron system- *May-2010, Georgia Institute of Technology, Atlanta, Georgia, USA.*

➤ **Papers presented in National/International conferences/seminars/symposium (India)**

1. Presented paper Synthesis of Fe(II) based photosensitizers: Evaluation of their DNA binding profile and photocleavage studies. International Conference on 'Importance of Herbal Medicine in the era of Globalization - a live demonstration' (IHMEG-2016). **21st-23rd, December- 2016**
2. Presented paper, Effect of Ni doping on the optical properties of Co ferrite nanocomposites synthesized by sol-gel combustion method, M. Madhukara Naik, H.S. Bhojya Naik, **9th KSTA conference December 20-21, 2016.**
3. Presented paper, Synthesis characterisation and antibacterial activity by photoresponsive silver nanoaterial aganist *E-coli*, M. Giridhar, H. S. Bhojya Naik, C. N. Sudhamani, M. C. Prabakar, R. Kenchappa, Sameer Patil, **9th Annual KSTA Conference on Science and Technology in the 21st Century 20 & 21 December, 2016.**
4. Synthesis and Characterization of Mixed-Ligand Ni(II) complexes: Evaluation of Antibacterial, DNA binding, Nuclease activity and their pharmacological use. World Congress on Drug Discovery Development-2016, **23rd - 25th November -2016.**
5. Presented paper, Preparation of azo-dye sensitized TiO₂ photocatalyst for inhibition of E-Coli bacteria under visible light irradiation , M. Giridhar, H.S. Bhojya Naik, R. Vishwanath, C. N. Sudhamani, M. C. Prabakar and R. Kenchappa, International Conference on Nanotechnology

(ICNANO-2016) organized by Department of Nanotechnology, Visvesvaraya Technological University (VTU).

6. Presented paper, Studies on Synthesis, Characterization of Transition Metal Complexes of N, S-Heterocycles and Evaluation of their Biological Activity, N. Venugopal, G. Krishnamurthy, H.S. Bhojya Naik, M.C. Prabhakara. **9th KSTA conference December 20-21, 2016**
7. Presented paper "Synthesis and Optical Properties of Samarium Substituted Zinc Ferrite Nanoparticles" S.K. Rashmi, H. Jayadevappa, H.S. Bhojya Naik, S.B.Patil, Poster- '**Walkway of Discovery**' at **8th Bangalore INDIA NANO 2016** held at The Lalith Ashok, Bengaluru on 3-4 March 2016.
8. Oral presentation, international conference on materials processing and characterization (GRIET) COLLEGE, 12-13th, **2016**, Hyderabad, Telengana.
9. Presented paper, KSTA conference on ENERGY CLIMATE CHANGE AND ENVIRONMENT ORGANIZED BY cuk, 29-30th, **2016**, Kadaganchi, Kalaburagi, Karnataka.
10. Presented paper Novel Ni(II) complexes of phenanthroline based photosensitizers: Synthesis, DNA binding and photo-nuclease studies, Science and Technology: **Future Challenges and Solutions(STFCS-2016)**, Aug 8 - 9, **2016**, University of Mysore, Mysore.
11. Presented paper "Influence of Sm +3 ions on structural and optical behaviour of manganese nanospinel ferrite" S.K. Rashmi, H. Jayadevappa, H.S. Bhojya Naik, M. Madhukara Naik, **International Conference on Science and Technology: Future Challenges and Solutions (STFCS-2016)** held at University of Mysore on August 8 - 9, **2016**.
12. Presented paper, Tunable luminescence properties of EDTA-assisted ZnS:Mn nanocrystals from yellow-orange to red emission band, R. Viswanath, H.S. Bhojya Naik, **International Conference on Science and Technology: Future Challenges and Solutions (STFCS-2016)** held at University of Mysore on August 8-9, **2016**.
13. Presented paper, Antibacterial activity of biotin capped Gd:ZnS nanoparticles, Arun Kumar G., H.S. Bhojya Naik, **International Conference on Science and Technology: Future Challenges and Solutions (STFCS-2016)** held at University of Mysore on August 8-9, **2016**.
14. Presented paper, Solvothermal synthesis of HMTA-assisted Nd³⁺-doped ZnS nanoparticles its characterization and applications, I.K. Suresh gowda, H.S. Bhojya Naik, **International Conference on Science and Technology: Future Challenges and Solutions (STFCS-2016)** held at University of Mysore on August 8-9, **2016**.
15. Presented paper, DNA binding and cleavage studies of macrocyclic complexes, M.C. Prabhakara, Gopala Krishna Naik S.R., H.S. Bhojya Naik, **International Conference on Science and Technology: Future Challenges and Solutions (STFCS-2016)** held at University of Mysore on August 8-9, **2016**.
16. Presented paper Synthesis, DNA binding and photo-induced DNA cleavage activity of cobalt(II) phenanthroline based photosensitizers, Sixth International Conference on Metals in Genetics, Chemical Biology and Therapeutics (ICMG-2016), Indian Institute of Science, Bangalore held on February 17-20, **2016**.
17. Presented paper, Effect of Al doping on the optical properties of Ni ferrite nanocomposites synthesized by chemical co-precipitation method, M. Madhukara Naik, H.S. Bhojya Naik, M.C. Prabhakara, R. Viswanath, I.C. Suresh Gowda, G Arun Kumar, **8th KSTA conference November 5-6th 2015**.
18. Oral presentation at Indian National conference on Development in Inorganic Applications (**INDIA-2015**), Organized by Dept of Chemistry, Periyar University, Salem, **2015**.

19. Oral presentation, Photodegradation studies of Ag:SiO₂ nanocomposites synthesized by colloidal method, I.C. Suresh Gowda, H.S. Bhojya Naik, R. Viswanath, at Indian National conference on Development in Inorganic Applications (**INDIA-2015**), Organized by Dept of Chemistry, Periyar University, Salem, **2015**.
20. Presented paper, Optical characterization of EDTA assisted CdS:Mn nanoparticles synthesized by microwave irradiation method, G Arun Kumar, H.S. Bhojya Naik, R. Viswanath, I.C. Suresh Gowda, Indian National conference on Development in Inorganic Applications (**INDIA-2015**), Organized by Dept of Chemistry, Periyar University, Salem, **2015**.
21. Presented paper, Co(III) and Ni(II) complexes of new sulfur/seleno carbodioxime: synthesis characterization, DNA binding and chemical oxidative cleavage studies, M.C. Prabhakara, H.S. Bhojya Naik, Gopala Krishna Naik S.R., Indian National conference on Development in Inorganic Applications (**INDIA-2015**), Organized by Dept of Chemistry, Periyar University, Salem, **2015**.
22. Presented paper, Evaluation of photoinduced antibacterial activity by azo dye sensitized TiO₂ thin films against E-coli, M. Giridhar, H. S. Bhojya Naik, R. Vishwanath, C. N. Sudhamani, M. C. Prabakar and R. Kenchappa, Poster presented at **8th** KSTA annual Conference on Science and Technology for GenNext Urban Space to be held on 5th and 6th November **2015**.
23. Presented paper, International Conference on Global challenges, policy frameworks and sustainable development for mining of mineral and fossil energy resources (2015-20), organized by Nitk, 17-18th April **2015** Surthakal, Mangalore, Karnataka.
24. Presented paper, **8th** Annual KSTA conference on Science and Technology for GenNext urban space organized by BIT college, held on 5-6th November-**2015**, Bangalore Karnataka.
25. Presented paper, Synthesis, DNA binding and photo-induced DNA cleavage activity of Iron phenanthroline based photosensitizers, National Conference on Synthetic and Structural Chemistry (NCSSC-2015), Tumkur University, Tumkur held on 19th March, **2015**.
26. PVP assisted microwave synthesis, characterization and photoluminescence properties of Mn doped ZnS nanoparticles. “**7th Annual KSTA conference-2015 (FEB,05-06, 2015)**”
27. Presented (**oral**) a paper entitled “**Bivalent transition metal complexes of a Schiff base ligand: Studies on synthesis, characterization, DNA interaction and antibacterial activity**” in UGC sponsored one day National Seminar on Green Chemistry- Need of the Universe, held on 28th February, **2015**, organized by Department of chemistry, Sri Sri Shivalingeshwara Swamy Govt. first grade college and P.G. centre, Channagiri.
28. Presented (**oral**) a paper entitled “**Design and development of novel transition metal-based photosensitizers as efficient DNA photocleavers and Photocytotoxic agents**” in UGC sponsored one day National Seminar on Green Chemistry- Need of the Universe, held on 28th February, **2015**, organized by Department of chemistry, Sri Sri Shivalingeshwara Swamy Govt. first grade college and P.G. centre, Channagiri.
29. Presented paper, National conference on pure and applied chemistry (NACOPAC-2014) held on 29-31st December-**2014**, Manasagangothri, Mysuru, Karnataka.
30. Presented paper entitled PVP-Assisted microwave synthesis, characterization and photoluminescence properties of Mn²⁺-doped ZnS nanoparticles in “**7th Annual KSTA National Conference-2015**” (Feb, 5,6, 2015) on ‘*Science, Technology and Productization – A means for Growth*’ organized by KSTA & Oxford College of Science, Bangalore

31. Presented paper in Two day State level conference on “**5th Annual KSTA conference-2012** (DEC, 19-20 **2012**)” Organized by Karnataka science and technology academy (KSTA), Bangalore.
32. Synthesis, DNA binding and Photo induced cleavage activity of Ru(II) complexes 1st International conference on new horizons in pharmaceutical and biomedical sciences(NHPBMS-**2013**), Jan 12-13, Dehradun.
33. Presented paper in Two day State level conference on “**6th Annual KSTA conference-2013** (DEC, **20-21 2013**)”.Organized by Karnataka science and technology academy (KSTA), Bangalore.
34. Paper presented on DNA binding and photonuclease studies of biologically active quinoline isonicotinic hydrazone Co(II) and Ni(II) complexes. International conference on New horizons in Pharmaceutical and Biomedical sciences, **Jan 12-13, 2013** held at Sidharatha College of Pharmacy, Dehradun (UK), India.
35. Oral presentation on “Cobalt(II), Nickel(II) and Copper(II) complexes of a Schiff base ligand with quinoline core as photosensitizers: DNA binding, photoinduced DNA cleavage and photocytotoxic studies” in an International Conference entitled “International Conference on Biological Inorganic Chemistry” which was held at Periyar University, Periyar, Salem, Tamilnadu, INDIA during 20-22 FEB **2013**. S.M. Pradeepa^a, **H.S. Bhojya Naik^{a,*}**, K. Indira Priyadarsini, Atanu Barik
36. Presented a poster on “A new octahedral Cobalt(III) and Nickel(II) complexes: Synthesis, DNA-binding and cleavage studies” in an International Conference entitled “International Conference on Biological Inorganic Chemistry” which was held at Periyar University, Periyar, Salem, Tamilnadu, INDIA during 20-22 FEB **2013**. M.C. Prabhakara^a, S.R. Gopalakrishna Naik^b, **H.S. Bhojya Naik^{c,*}**
37. Presented a poster on “Antibacterial activity of small chain functionalized Ag-nanoparticles” in an International Conference entitled “International Conference on Biological Inorganic Chemistry” which was held at Periyar University, Periyar, Salem, Tamilnadu, INDIA during 20-22 FEB **2013**. R. Viswanath^a, **H.S. Bhojya Naik^{a,*}**, Harish. K. N^a, Prashanth Kumar. P.N^a
38. Presented paper Synthesis, DNA binding and Photo induced cleavage activity of Ru(II) complexes. 1st International Conference on New horizons in Pharmaceutical and Biomedical Sciences NHPBMS-2013 (Date: Jan, 12-13, **2013**), Dehradun. C. N. Sudhamani , **H. S. Bhojya Naik** , K.R. Sangeetha Gowda.
39. Presented paper Synthesis, characterization, DNA binding and photonuclease activity of quinoline isonicotinic hydrazone Nickel(II) complexes. . 1st International Conference on New horizons in Pharmaceutical and Biomedical Sciences NHPBMS-2013 (Date: Jan, 12-13, **2013**), Dehradun. K.R, Sangeetha Gowda **H. S. Bhojya Naik**, C.N. Sudhamani.
40. Presented paper DNA binding and photo-induced DNA cleavage activity of Co(III) complexes 6th International Meeting on Halogen Chemistry (HALCHEM-VI) Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore, December 8-11, **2012**.
41. Presented a poster on “Metal based photosensitizers of Br-substituted bis-aroyl Schiff base: DNA binding, Photoinduced DNA cleavage and Photocytotoxic studies”, at the “6th International Meeting on Halogen Chemistry (HALCHEM – **2012**)”, during 8-11th December, **2012** in the Dept. of Inorganic and Physical chemistry, Indian Institute of Science (IISc), Bangalore. S.M. Pradeepa^a, **H.S. Bhojya Naik**, K. Indira Priyadarsini, Atanu Barik.
42. Presented paper DNA binding and photo-induced DNA cleavage activity of Co(III) complexes, 6th International Meeting on Halogen Chemistry (HALCHEM-VI), Indian Institute of

Science, Bangalore held on December 8-11, **2012**. C. N. Sudhamani , **H. S. Bhojya Naik** , K.R. Sangeetha Gowda.

- 43.** Presented paper Synthesis, characterization, DNA binding and photonuclease activity of quinoline isonicotinic hydrazone copper(II) complexes 6^t International Meeting on Halogen Chemistry (HALCHEM-VI), Indian Institute of Science, Bangalore held on December 8-11, **2012**. K.R. Sangeetha Gowda. **H. S. Bhojya Naik** , C. N. Sudhamani.
- 44.** Presented a poster on “Evaluation of DNA binding, Photoactivated DNA cleavage and Photocytotoxicity of metal based photosensitizers of tetradentate Schiff base” at the 5th annual Karnataka Science & Technology Academy conference on “Science and Technology for Societal transformation”, during 19-20th Dec **2012**, held at Dayanand Sagar Institutions, Bangalore. S.M. Pradeepa^a, **H.S. Bhojya Naik**^{a,*}, K. Indira Priyadarsini^b, Atanu Barik^b, M.C. Prabhakara
- 45.** Presented paper DNA binding and photoinduced cleavage activity by bioactive copper (II) complexes of Peptides. International conference on synthetic and structural chemistry. Dec 8-10, **2011** at Mangalore.
- 46.** Presented paper New Co (III) and Ni (II) complexes of peptides: DNA binding and photocleavage studies. International symposium on challenges in drug discovery programme 2011 (ISCDDP) Feb 16-17, **2011** at Mysore.
- 47.** Presented paper Synthesis, Characterization of heterocyclic based pyrazole derivative and its biological studies. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 48.** Presented paper Synthesis of Nano-Cerium oxide (CeO₂) catalyzed Biginelli compounds. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 49.** Presented paper Optical Characterization of nanocrystalline Co_{1-x}Zn_xFe₂O₄. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 50.** Presented paper Cu(II), Mn(II) and Fe(II) complexes of fused aromatic ligands: Synthesis, DNA binding and cleavage studies. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 51.** Presented paper Mixed ligand Co(III) complexes: DNA binding, oxidative and photocleavage studies. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 52.** Presented paper A novel and improved process for the synthesis of 5-bromo-3-(1-nethylpiperidin-4-yl)-1H-indole National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
- 53.** Presented paper Phytochemical investigations and invitro evaluation of Actinogaphne hookeri leaf extracts for anti oxidant property. National Symposium on Frontier areas in Chemical science and nanotechnology (NSFACNT-2010), May 1-2, **2010**, Kuvempu University.
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