KLE Institute of Technology, Hubballi 580 027

Faculty Profile

Name: Dr. Gangadhar B. Bagihalli

1.	**Educational, professional qualifications, and trainings**				
1.1.	**Educational Qualification**				
S.N.	**Degree**	**University / College**	**Discipline**	**Year of Passing**	**Class obtained**
a)	Post-Doc	Stellenbosch University, South Africa	Inorganic Chemistry	-	-
b)	Ph. D.	Karnataka University, Dharwad	Inorganic Chemistry	2009	-
c)	M. Sc.	Karnataka University, Dharwad	Physical Chemistry	2005	First Class

1.2.	**Training programmes attended**			
S.N.	**Subject Area of Training**	**Organization**	**Place**	**Period / Duration**
a)	Advanced Functional Materials for Science & Engineering	Bosco Institute of Technology	Bangalore	15th to 19th May 2023/ One week
b)	Polymer Composites For Engineering Applications	B.M.S. College of Engineering	Bangalore	22nd to 26th May 2023/ One week
c)	Recent trends in Materials Science and Engineering	Dayananda Sagar Academy of Technology and Management	Bangalore	12th September to 16th September 2022. / 5 days
d)	Taking Research to Next Level	Venkateshwara College of Engineering.	Bengaluru	26th to 30th September 2022. / One week
e)	Accelerating Innovations in Material Science-Surface Characterization	BMS Institute of Technology, Bangalore	Bangalore (Online)	18th to 22nd May 2021 / % days
f)	Advanced Polymers for Energy conversion (FDP)	ATAL	Bangalore (Online)	25th to 29th October 2021 / 5 days

g)	Targeted Delivery of Green Synthesized Nanomaterials and their importance in 21st Century	ATAL	Utkal University, Odisa (Online)	9th to 13th November 2021 / 5 days
h)	NBA and NAAC Accreditation Process (FDP)	Ramaiah Institute	Bangalore (Online)	4th to 8th June 2020 / One week
i)	The role of advanced Materials & Nanotechnology in present Scenario (FDP)	Vemana Institute of Technology	Bangalore (Online)	22nd to 26th June 2020 / 5 days
j)	Research Proposal writing and opportunities in the field of Science, Engineering and Management (FDP)	BIT, Bengalore	Bangalore (Online)	6th to 11th July 2020 / One week

1.3. Membership of National and International Professional Bodies/Organisations

S.N.	Name of Professional Body/Organization	Place	Membership Category
a)	ISCB (LF-799)	CSIR-Lucknow	Life member
b)	ISRD (F3140900662)	United Kingdom	Life member

1.4. Technical Papers/Books Published in National / International Events / Journals

a)

https://scholar.google.com/citations?hl=en&user=7ItPTZgAAAAJ

- **Gangadhar B. Bagihalli**, Prakash Gouda Avaji, Prema S. Badami and Sangamesh A. Patil. Synthesis, spectral characterization, electrochemical and biological activity studies of Co(II), Ni(II) and Cu(II) complexes with thicarbohydrazone. *J. Coord. Chem.* 61(17) (2008) 2793-2806.
- **Gangadhar B. Bagihalli**, Prakash Gouda Avaji**,** Sangamesh A. Patil and Prema S. Badami. Synthesis, spectral characterization, in vitro antibacterial, antifungal and cytotoxic activity of Co(II), Ni(II) and Cu(II) complexes with 1,2,4-triazole Schiff bases. *Eur. J. Med Chem.* 43 (2008) 2639-2649. (Cited 50 times & selected in the top 25 articles in the year 2008).
- **Gangadhar B. Bagihalli**, Prema S. Badami and Sangamesh A. Patil. Synthesis, spectral characterization and in vitro biological studies of Co(II), Ni(II) and Cu(II) complexes with 1,2,4-triazole Schiff bases. *J. Enzym. Med. Chem.* 2009, 24(2), 381-394.
- **Gangadhar B. Bagihalli**, Sangamesh A. Patil and Prema S. Badami. Synthesis, spectral characterization, in vitro microbial and cytotoxic studies of lanthanum(III) and thorium(IV) complexes with 1,2,4-triazole Schiff bases. *J. Enzym. Med. Chem.* -2009, 24(3), 730-741.
- **Gangadhar B. Bagihalli**, Sangamesh A. Patil and Prema S. Badami. Synthesis, Physico-Chemical Investigation and Biological studies of Zinc(II) complexes with 1,2,4-triazole Schiff bases. *J. Iranian. Chem. Soc.*, 2008, 6(2), 259-270.

- **Gangadhar B. Bagihalli** and Sangamesh A. Patil. Synthesis, spectral characterization, in vitro biological and DNA Cleavage studies of Co(II), Ni(II), Cu(II) and Zn(II) complexes with 1,2,4-triazole Schiff bases. *J. Coord. Chem.* -2009, 62(10), 1690-1700.
- **Gangadhar B. Bagihalli**, Sangamesh A. Patil and Prema S. Badami. Synthesis, Physico-Chemical Investigations, In vitro Microbial, Cytotoxic and DNA Cleavage Studies of Co(II), Ni(II) and Cu(II) Complexes with Novel ONON donor Schiff bases. *J. Enzym. Med. Chem.* -2010, 26(3), 630-639
- **Gangadhar B. Bagihalli and** Sangamesh A. Patil, Synthesis, Physico-Chemical investigations of Co(II), Ni(II) and Cu(II) complexes and their in vitro microbial, cytotoxic, DNA cleavage studies. *J. Enzym. Med. Chem.* -2010, 25(3), 430-439.
- **Gangadhar B. Bagihalli** and Sangamesh A. Patil. Synthesis, Physico-Chemical Investigations, and In vitro Microbial, Studies of VO(IV) Complexes with Novel ONON donor Schiff bases. *Main Group Chemistry*- 2009, 8(2), 71-88.
- Ajaykumar Kulkarni, **Gangadhar B. Bagihalli**, Sangamesh A. Patil and Prema S. Badami. Synthesis, Physico-chemical characterization, Electrochemical and *in- vitro* Antimicrobial Studies of Co(II), Ni(II) and Cu(II) Complexes with Schiff bases of formyl coumarin derivatives. *J. Coord. Chem.* -2009, 62(18), 3060-3072.
- Ajaykumar Kulkarni, Prakash Gouda Avaji, **Gangadhar B. Bagihalli**, Prema S. Badami and Sangamesh A. Patil. Synthesis, Spectral characterization, electrochemical and biological studies of Co(II), Ni(II) and Cu(II) complexes with novel Schiff bases of 8-formyl-7-hydroxy-4-methyl coumarin. *J. Coord. Chem.* -2009, 62(3), 481-492.
- S.A. Patil, V.H. Naik, A.D. Kulkarni, Kamble U, **Gangadhar B. Bagihalli**, DNA cleavage, in vitro antimicrobial and electrochemical studies of Co(II), Ni(II) and Cu(II) complexes with m-substituted thiosemicarbazide schiff bases. *J. Coord. Chem.* -2010, 63(4), 688-699.
- **Gangadhar B. Bagihalli** and S. F. Mapolie, Binuclear Pd-Methyl complexes of N,N^1-{1,n}-alkanediyl-bis(pyridinyl-2-methanimine) ligands (n=5, 8, 9, 10 and 12): Evaluation as Catalysts Precursors for Phenylacetylene Polymerization. *J. Organometalic Chemistry*-2012, 700, 93-102.
- Manjunath M, Ajaykumar D. Kulkarni, **Gangadhar B. Bagihalli**, and Shridhar Malladi, Thiosemicarbazone Scaffold as a Multidentate Ligand for Transition Metal Ions: Synthesis, Characterization, in vitro Antimicrobial, Anthelmintic, DNA Cleavage and Cytotoxic Studies Helvetica Chemica Acta 2016, 99, 1-11.
- M. Manjunath, Ajaykumar D. Kulkarni, **Gangadhar B. Bagihalli**, Shridhar Malladi, Sangamesh A. Patil, Bio-important antipyrine derived Schiff bases and their transition metal complexes: Synthesis, spectroscopic characterization, antimicrobial, anthelmintic and DNA cleavage investigation Journal of Molecular Structure, 2017, 314-321.
- Vinayak Adimule, P Vageesha, **Gangadhar Bagihalli**, Debdas Bowmik, HJ Adarsha, Synthesis, Characterization of Hybrid Nanomaterials of Strontium, Yttrium, Copper Doped with Indole Schiff Base Derivatives Possessing Dielectric and Semiconductor Properties. Book Chpter (Springer): Emerging Research in Electronics, Computer Science and Technology, 2019, 1131-1140.

- Nagaraj P Shetti, Shweta J Malode, Deepti S Nayak, **Gangadhar B Bagihalli**, Kakarla Raghava Reddy, K Ravindranadh, Ch Venkata Reddy, A novel biosensor based on graphene oxide-nanoclay hybrid electrode for the detection of Theophylline for healthcare applications. Microchemical Journal, 2019, 103985.

- Nagaraj P Shetti, Shweta J Malode, Shikandar D Bukkitgar, **Gangadhar B Bagihalli**, Raviraj M Kulkarni, Shilpa B Pujari, Kakarla Raghava Reddy, Electro-oxidation and determination of nimesulide at nanosilica modified sensor. Materials Science for Energy Technologies, 2019, 396-400.

- Nagaraj P Shetti, Shweta J Malode, Deepti S Nayak, **Gangadhar B Bagihalli**, Shankara S Kalanur, Ramesh S Malladi, Ch Venkata Reddy, Tejraj M Aminabhavi, Kakarla Raghava Reddy, Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. Applied Surface Science, 2019, 143656.

- Nagaraj P Shetti, Shweta J Malode, Deepti S Nayak, Shikandar D Bukkitgar, **Gangadhar B Bagihalli**, Raviraj M Kulkarni, Kakarla Raghava Reddy, Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide. Journal of Physics and Chemistry of Solids, 2020, 109210.

- Shikandar D Bukkitgar, Sudesh Kumar, Supriya Singh, Vanshika Singh, Kakarla Raghava Reddy, Veera Sadhu, **Gangadhar B Bagihalli**, Nagaraj P Shetti, Ch Venkata Reddy, K Ravindranadh, S Naveen Functional nanostructured metal oxides and its hybrid electrodes–Recent advancements in electrochemical biosensing applications. Microchemical Journal, 2020, 105522.

- Nilophar Majjid Shaikh, **Gangadhar B Bagihalli***, Pravin Kendrekar and Malathi Challa. A Novel SBA Nano-Silica Immobilised Basic Ionic liquid Catalyst for One Pot Synthesis of 2-Amino-4H-Chromene Derivatives at Room Temperature in Aqueous Media. Topics in Catalysis (Springer) 2021, 1-10 .
- Nilophar M. Shaikh, Anand D. Sawant, **Gangadhar B. Bagihalli***, Malathi Challa and Vinayak M. Adimule. Highly Active Mixed Au-Pd Nanoparticles Supported on RHA Silica through Immobilised Ionic Liquid for Suzuki Coupling Reaction. Topics in Catalysis (Springer) 2021 1-9.
- Nilophar M. Shaikh, **Gangadhar B. Bagihalli***, Vinayak M. Adimule and Rangappa S. Keri. A Novel Silica Immobilised Acidic Ionic Liquid [BMIM][$AlCl_4$] as an Effective Catalyst for Biscoumarine Synthesis. Topics in Catalysis (Springer) 2022 1-9.
- Nilophar M. Shaikh, Vinayak M. Adimule, **Gangadhar B. Bagihalli*** and Rangappa S. Keri. A A Novel Mixed Ag-Pd Nanoparticles Supported on SBA Silica through [DMAP-DABCO]OH Basic Ionic Liquid for Suzuki Coupling Reaction. Topics in Catalysis (Springer) 2022 1-10.

- Nilophar Majjid Shaikh, **Gangadhar B Bagihalli**, Anand Dilip Sawant, Vinayak Adimule. Catalytic Role of Acidic Ionic Liquid for the Synthesis of Biscoumarin Derivatives at Room Temperature. iranian journal of science and technology Sringer 2022 3-12.
- **Gangadhar B Bagihalli**, S. N. Unki and V. Adimule. Synthesis, Structural and Optical Properties of Co Doped α-Sb_2O_4 Nanocomposites. Advance Material Research, Trans Tech. 2022, 3-11.pan
- **Gangadhar B Bagihalli**, Nilophar M Shaikh, S. N. Unki. Role of Graphene and Graphene Oxide Applications as Optical Biosensors in Pandemic. Advance Material Research, Trans Tech. 2022, 29-49.
- Laxmi S.Killedar, Mahesh M. Shanbhag, Shweta J. Malode, **Gangadhar B. Bagihalli**, Supratim Mahapatra, Ronald J. Mascarenhas, Nagaraj P. Shetti, Pranjal Chandra.Ultra-sensitive detection of tizanidine in commercial tablets and urine samples using zinc oxide coated glassy carbon electrode. Microchemical Journal (Q2), 172, 106956, 2022.
- Vinayak Adimule, Shashanka Rajendrachari, Rayappa Mahale, Sheetal Batakurki, Basappa C Yallur, Santosh Nandi and **Gangadhar Bagihalli**. Dielectric and Mechanical Properties of Silicone Rubber Composites Reinforced by Conductive Carbon Black and Neopentyl Glycol Diglycidyl Ether. Silicon, 15 (6), 2811-2828, 2023.

Patents:

- A PROCESS FOR SYNTHESIZING POLY-3-BUTYL THIOPHENE DOPED ZRY2O3/ZRCOY2O3 NANOSTRUCTURES. Patent No.: 400518, Application No.: 202141055303, Date of Grant: 30/06/2022. (Indian Patent).
- A PROCESS FOR SYNTHESIS OF GDXSRO:CDO NANOSTRUCTURES. Patent No.: 398977, Application No.: 202141055302, Date of Grant: 13/06/2022. (Indian Patent).
- System for Synthesis and Characterization of Silicone Rubber-Polymer Composite Materials Reinforced with Soft Carbon and Neopentyl Glycol Diglycidyl Ether. (Application No.: 2022092119364200DE) (German Patent) Dated: 21-09-2022.

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Technical Events: National:

- **G. B. Bagihalli**, P. S. Badami, P. G. Avaji and S. A. Patil (2007).”Thermoanalytical, Fluorescence, Bialogical and FAB-mass studies of a new series of Schiff bases derived from 8-formyl-7-hydroxy-4-methyl coumarin and 3-subtituted-4-amino-5-mercapto-1,2,4-triazoles and their copper(II) complexes”. National Symposium on Recent Advances in Analytical Science and Applications held from April 5^{th}–7^{th}, 2007 at Himachal Pradesh University, Summer Hills, SHIMLA.
- **G. B. Bagihalli**, P. S. Badami and S. A. Patil (2007). “Thermoanalytical, Fluorescence and FAB-mass studies of a new series of Schiff bases derived from 8-formyl-7-hydroxy-4-methyl coumarin and 3-subtituted-4-amino-5-mercapto-1,2,4-triazoles and their nickel(II) complexes”. National Symposium on Recent Advances in Analytical Science

and Applications held from April 5th–7th, at Himachal Pradesh University, Summer Hills, SHIMLA.

- **G. B. Bagihalli**, P. S. Badami and S. A. Patil (2008). "Synthesis and Spectral Characterization of Ni(II) complexes with Schiff Bases Derived from 3-substituted-4-amino-5-hydrozino-1,2,4-triazole and 8-formyl-7-hydroxy-4-methylcoumarin". Indian Council of Chemists, 26th Annual Conference Held from 26th – 28th at Dept. of Chemistry Dr. H. S. Gour University Sagar (M.P.).
- **G. B. Bagihalli**, P. S. Badami and S. A. Patil (2008). "Synthesis, Spectral Characterization, Electrochemical, Fluorescence and Biological Studies of Cu(II) Complexes with 1,2,4-triazole Schiff Bases". Indian Council of Chemists, 26th Annual Conference Held from 26th – 28th Feb.at Dept. of Chemistry Dr. H. S. Gour University Sagar (M.P.).
- **G. B. Bagihalli**, S. A. Patil and P. S. Badami (2008). "Synthesis, Spectral Characterization and in vitro biological studies of VO(IV) complexes with 1,2,4-triazole Schiff bases". 27th Annual Conference, Indian Council of Chemists held from 26-28th December at Gurukul Kangri Vishwavidyalaya Haridwar.

Technical Events: International

- **G. B. Bagihalli**, P. S. Badami and S. A. Patil (2006). **"**Synthesis and Characterization of a New Series of Schiff Bases Derived from 3-Substituted-4-Amino-5-Mercapto-1,2,4-Triazole and 7-Hydroxy-8-Formyl-4-Methyl Coumarin".. 2nd International Conference on Heterocyclic Chemistry. Held at University of Rajasthan Jaipur. (Rajasthan) India.
- **G. B. Bagihalli**, P. G. Avaji, P. S. Badami and S. A. Patil (2007). "Fluorescence and biological studies of Co(II) complexes of Schiff bases derived from 8-formyl-7-hydroxy-4-methyl coumarin and 3-substituted-4-amino-5-mercapto-1,2,4-triazoles". International Conference on Materials for the Millennium (Met Con), Kerala.
- U. V. Kamble, **G. B. Bagihalli**, S. A. Patila and P. S. Badami (2008). "Synthesis, Spectroscopic Studies and Biological Properties of Co(II) Complexes with 14-Membered Tetraaza Schiff Base Macrocyclic Triazoles". International Conference on Recent Advances in Chemistry to be held from 23-27th November at P.G. Dept. of Studies in Chemistry, Karnatak University, Dharwad.
- **G. B. Bagihalli** and S. F. Mapolie (2010). "Synthesis, Characterization and Catalytic study of Dendrimer-Encapsulated nanoparticles".. The annual Conference of the Catalysis Society of South Africa. (November 7th to 10th), University of Free State, Bloemfontein, South Africa.
- **G. B. Bagihalli** and S. F. Mapolie (2011). "Development of New triazine besed dendrimers and Catalytic study of Dendrimer-Encapsulated nanoparticles". The annual Conference of the Catalysis Society of South Africa. (November 13th to 16th), Misty Hills Country Hotel & Spa, Muldersdrift, Gauteng, South Africa.

Books/Book Chapter:

- Dr. Jyoti Prakash Dhal, Dr. Gangadhar B Bagihalli, Dr. G. Vimala and Dr. Tarun Ghosh. **Engineering Chemistry Book**. ISBN: 9789356252677. (2022) (Book)
- Dr. Vinayak Adimule, Dr. Gangadhar B Bagihalli and Dr. Lalitha S Kumar. Anticancer Properties of Some Novel 1,3,4-Oxadiazole Molecules. Lanbert. (**BooK**) (2018).
- V. Adimule, P. Vageesha, **G. B. Bagihalli**, D. Bowmik, H. J. Adarsha. "Synthesis, Characterization of Hybrid Nanomaterials of Strontium, Yttrium, Copper Doped with Indole Schiff Base Derivatives

	Possessing Dielectric and Semiconductor Properties". **Book Chpter** : *Emerging Research in Electronics, Computer Science and Technology*, Springer, P 1131-1140. (2019).		
1.5.	**Language skills (ability to)**	**Speak:**	**Read / Write**
		English	English
		Kannada	Kannada
		Hindi	Hindi
2.	**Employment Information and Professional Experience till date**		
2.1.	**Employment Information**		
a)	Job title	Assistant Professor	
	Employer	K. L. E. Institute of Technology, Hubballi	
	Dates (from – to)	20-11-2011 to 31-11-2022	
	Responsibilities	➢ First Year IA Coordinator 2014-2015 ➢ First Year Coordinator from 2016 to till date ➢ Dept. ISO Coordinator from 2015 to till date College level ISO auditor	
b)	Job title	Associate Professor	
	Employer	K. L. E. Institute of Technology, Hubballi	
	Dates (from – to)	01-12-2022 to Till date	
	Responsibilities	➢ First Year IA Coordinator 2014-2015 ➢ First Year Coordinator from 2016 to till date ➢ Dept. ISO Coordinator from 2015 to till date	
2.2.	**Public Service & Volunteer Work**		
2.3.	**Other professional achievements such as any awards, special skills, etc.** Karnataka University Research Fellowship from 2005 to 2009.		
3.	**Any other information**		
3.1.	**Strengths**	Effective teaching and Research	
3.2.		Patience, responsibility. Stress tolerance, Punctual, Team work. Flexibility and Adaptability	
4.	**General information**		
4.1.	Name	Dr. Gangadhar B Bagihalli	
4.2.	Gender	Male	
4.3.	Nationality	Indian	
4.4.	Contact address	Dept. of Chemistry, K. L. E. Institute of Technology, Hubballi	
4.5.	Phone / mobile number	+91-9538554106	
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30-10-2023	Dr. Gangadhar B Bagihalli	
Date	Full name	Signature