

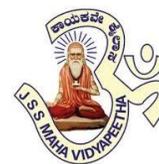


JSS Mahavidyapeetha

# JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060

www.jssateb.ac.in



## FACULTY PROFILE

Department: Chemistry

### 1. Personal Details

NAME	Dr. Roopashree B	
DEPARTMENT	Chemistry	
DESIGNATION	Associate Professor & HOD	
PHONE	+91 9449030329	
EMAIL ID	<a href="mailto:roopashreeb@jssateb.ac.in">roopashreeb@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	01-06-1998	

### 2. Experience

Total Experience in Years	Teaching: 28 Years	Industry: Nil	Research: 13 Years
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### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E. / B.Sc.,	PCM	1993	National College, Basavanagudi, Bengaluru	Bangalore University
M.E. / M.Tech. / M.Sc.	Organic Chemistry	1995	Central College, Bangalore University Bengaluru	Bangalore University
Ph.D.	Coordination & Bioinorganic Chemistry	2014	Bangalore University Bengaluru	Bangalore University

### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 16	National: Nil
Papers Published in SCOPUS indexed Journals	International: 1	National: Nil
Papers Published in other Journals	International: 1	National: Nil
Papers Presented in Conferences / Symposium	International: 12	National: 07
Books / Book chapters Published	Name of the book: Engineering Chemistry Publisher: Star Tech	

	Year of Publication: 2012
	Name of the book: Engineering Chemistry Publisher: Sun Star Year of Publication:2014
	Name of the book: Engineering Chemistry Publisher: Sun Star Year of Publication:2015
	Name of the book: Engineering Chemistry Publisher: Sun Star Year of Publication:2016
	Name of the book: Engineering Chemistry Publisher: Sun Star Year of Publication:2018
	Name of the book: Engineering Chemistry, As per NEP, 2020 Publisher: Sun Star Year of Publication:2022

## 5. Research Guidance

PhD Guide? Give field & University	Yes, Coordination chemistry Bioinorganic Chemistry Solar cells	University: Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Guiding 2 students for Ph.D.	-

## 6. Grants

### i. Funds Received (Projects)

Nil

### ii. Patents

Nil

### iii. Consultancy

Nil

## 7. Awards Received

<b>Awards</b>	<ul style="list-style-type: none"> <li>• “Best Paper Award” (II prize) for the research paper entitled “Synthesis, characterization and antimicrobial activity of cobalt complexes containing 2(3'-N-Salicylidinephenyl) benzimidazole”, Recent trends in Chemical Research, Dept. of chemistry, SJCE, Mysuru, 3<sup>rd</sup> – 4<sup>th</sup> Jan 2014.</li> <li>• Best Teacher Award, Academic monitoring and improvement division 2018.</li> <li>• Secured 4<sup>th</sup> Rank in MSc., Bangalore University.</li> </ul>
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## 8. Publications

### i. International Journals

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Polymer-anchored vanadium(IV)-substituted benzimidazole: an Efficient	M. L. Shilpa, <b>B. Roopashree</b> & V. Gayathri	Research on Chemical Intermediates	Vol: Novemb er 2025	Both	3.5	Springer Nature

	green catalyst for aqueous oxidation of organic substrates						
2	Decoding the Mechanisms of Dyes and Heavy Metals via NiO Nanoparticles: Kinetic and Isothermal Perspectives	M Mahadeva Swamy, <b>B Roopashree</b> , Bincy Rose Vergis, AS Sowmyashree, D Kathyayani	Topics in Catalysis	Vol: October 2025	Both	3.0	Springer Nature
3	Improved electromagnetic shielding, optical, electrical and structural, behaviour of Poly (methylmethacrylate) composites with an Iron (III) benzimidazole complex	Preethi Ganesh, B Mahesh, <b>B Roopashree</b> , M Revanasiddappa, V Gayathri	Solid State Communications	Vol: 405 Year: 2025	Both	2.4	Elsevier
4	Cytotoxic, antimicrobial, and angiogenesis inhibition activity of novel Cobalt (II) complexes of substituted benzimidazole: Molecular docking simulation and Inhibition kinetics	<b>B Roopashree</b> , B Mahesh, R Ramu, ND Rekha, D Thekkekkara, V Gayathri	Journal of Molecular Structure	Vol. 1327: Year 2025 <a href="https://doi.org/10.1016/j.molstruc.2024.141141">https://doi.org/10.1016/j.molstruc.2024.141141</a>	Both	4.0	Elsevier
5	Adsorption and Biological Evaluation on the Malachite green dye using CuO-ZnO Nanoparticles.	Lubna Afroz, M H Moinuddin Khan, <b>B Roopashree</b> , J Puneetha, Basavaraja Patel	Letters in applied nanoBioscience	Vol. 14, Issue: 1 Year 2024	Scopus	-	AMG Transcend Association
6	Photocatalytic and eco-emission applications of green synthesized ZnO-CB nanoparticle	Shubha, J.P., <b>Roopashree, B.</b> , Sushma, N.V., Kiran, K., Ravikumar, R., Kuniyil, M., Shaik, M.R., Khan, M. and Adil	Journal of King Saud University-Science	Vol: 36, Issue:9, Year: 2024	Both	3.7	Elsevier
7	An insight into the cytotoxic, antimicrobial, antioxidant, and biocontrol perspective of novel Iron(III) complexes of substituted benzimidazoles: Inhibition kinetics and molecular simulations	<b>B. Roopashree</b> , B. Mahesh, Ramith Ramu, N. D. Rekha, S. N. Manjula, G. Preethi & V. Gayathri	Journal of Biomolecular Structure and Dynamics	Vol: 42, Issue:21 Year: 2024	Both	4.4	Taylor & Francis
8	$\alpha$ -Amylase inhibitory potential of Thunbergia mysorensis leaves extract and bioactive compounds by in vitro and computational approach	NR Kokila, B Mahesh, Ramith Ramu, <b>B Roopashree</b> , K Mruthunjaya	Journal of Biomolecular Structure and Dynamics	Vol: 41 Issue: 24 Year: 2023	Both	4.4	Taylor & Francis
9	Facile synthesis of ZnO/CuO/Eu heterostructure photocatalyst for the degradation of industrial effluent	JP Shubha, <b>B Roopashree</b> , RC Patil, Mujeeb Khan, Mohammed Rafi Shaik, Marwa Alaqarbeh, Abdulrahman Alwarthan, Abdunnasser Mahmoud Karami, Syed Farooq Adil	Arabian Journal of Chemistry	Vol: 16, Issue: 3, Year: 2023	Both	6.0	Elsevier
10	Reusable palladium–quinolyl benzimidazole complex immobilized on a polymer for the hydrogenation of organic substrates	Shilpa Madhugiri Lakshminarayana, <b>Roopashree B</b> , Gayathri Virupaiah	Chemical papers	Vol: 77 Year: 2023	Both	2.2	Springer Nature logo
11	Synthesis and corrosion resistance properties of novel conjugated polymer-Cu <sub>2</sub> Cl <sub>4</sub> L <sub>3</sub> composites	Ramanath Prabhu, <b>B. Roopashree</b> , T. Jeevananda, Srilatha Rao, Kakarla Raghava Reddy, Anjanapura V. Raghu,	Materials Science for Energy Technologies	Vol.: 4 Year: 2021	Scopus	7.633	KeAi
12	Zinc Oxide Nanoparticles Supported on Multi-Walled Carbon Nanotube Modified Electrode for Electrochemical	K. S. Siddegowda, B. Mahesh, N. A. Chamaraja,	Electroanalysis	Vol.: 32 Issue: 10	Both	3.077	Wiley Online Library

	Sensing of a Fluoroquinolone Drug	<b>B. Roopashree</b> , N. Kumara Swamy, and G. S. Nanjundaswamy		Year: 2020			
13	Synthesis, Characterization and Antimicrobial activities of Copper (II) Complexes of Schiff base ligand 2-[(3'-N-Salicylidinephenyl) benzimidazole]	<b>Roopashree B</b> & V. Gayathri	Asian Journal of Chemistry	Vol: 31 Issue: 9 Year: 2019	Scopus	0.158	Asian Publication Corporation
14	Structural investigation, spectroscopic and energy level studies of Schiff base: 2 [(3'-N-salicylidenephenyl) benzimidazole] using experimental and DFT methods	G. R. Suman, S.G.Bubbly, S.B.Gudennavar, <b>Roopashree B</b> , S Muthu , V. Gayathri, N.M.Nanje Gowda	Journal of Molecular structure	Vol: 1139 Year: 2017	Both	3.8	Elsevier
15	Synthesis, Characterization and Catalytic Activity of a Novel 2-(3'- aminophenyl) benzimidazolyl Palladium(II) Complex	K. Lokesh, S. HariPrasad, <b>Roopashree B</b> , V.Gayathri	Current Catalysis	Vol: 4 Issue: 2 Year: 2015	-	-	Bentham Science
16	Effect of solvents on photophysical properties and quenching of 2-[[3-(1H-benzimidazole-2-yl) phenyl] carbonimidoyl} phenol	G. R. Suman, S.G.Bubbly, S.B.Gudennavar, J.Thipperudrapp, <b>Roopashree B</b> V. Gayathri, N.M.Nanje Gowda	Luminescence	Vol: 30 Issue: 5 Year 2014	Both	2.9	Wiley Online Library
17	Syntheses, characterizations, and antimicrobial activities of binuclear ruthenium (III) complexes containing 2-substituted benzimidazole derivatives	<b>Roopashree B</b> V. Gayathri, A.Gopi, K.S.Devaraju	Journal of coordination chemistry	Vol: 22 Issue:65 Year: 2012	Both	1.9	Taylor and Francis
18	Synthesis, characterization, and biological activities of zinc, cadmium, copper, and nickel complexes containing meta-aminophenyl benzimidazole	<b>Roopashree B</b> , V. Gayathri, H.Mukund	Journal of coordination chemistry	Vol: 8 Issue: 65 Year: 2012	Both	1.9	Taylor and Francis

## ii. National Journals

Nil

## iii. Conferences

Sl. No	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Hydrogenation of cyclohexene using a immobilized Pd(II) complex of substituted benzimidazole on a polymer support.	M. L. Shilpa, <b>B. Roopashree</b> & V. Gayathri	3 <sup>rd</sup> International Conference on ADVANCES IN MATERIALS SCIENCE & TECHNOLOGY	24-26 July 2025	-	-	ICMAT-2025
2	Optical and band gap studies of commercial polymer and transition metal complex composite	Preethi G, <b>Roopashree B</b> , Mahesh B	International conference on women in Electrochemistry (ICWEC-2023)	7 <sup>th</sup> – 18 <sup>th</sup> April 2023	-	-	ICWEC-2023
3	A Review of the metal complexes of benzimidazole in inhibiting cancer cells	Preethi G, <b>Roopashree B</b> , Mahesh B	24 <sup>th</sup> ISTE Karnataka State Level	26 <sup>th</sup> November 2022	-	-	Conference proceedings

			Faculty Convention				
4	A Review on pH-sensitive Smart Food Packaging Materials Using the Blends of Synthetic Polymers and Natural Food Pigments	Asha S. C, Mahesh B, <b>Roopashree B</b> , and Divakar S. G.	6th International Conference on Recent Advances in Material Chemistry (ICRAMC - 2022)	17 <sup>th</sup> -19 <sup>th</sup> February Abstract no. 554, Pg. No. 490 Year: 2022	-	-	ICRMAC-2022 proceedings, Department of Chemistry, SRM Institute of Science and Technology
5	Antioxidant Activity of Novel Schiff base Iron(III) complex of substituted Benzimidazole	<b>Roopashree B</b> , Mahesh B, Preethi G, Gayathri V	2 <sup>nd</sup> International Conference on Advanced Materials & Technology	16 <sup>th</sup> -18 <sup>th</sup> January, Pg. no.250, PP-30 Year: 2020	-	-	ICMAT-2020 Proceedings, JSS Science & Technology University, SJCE, Mysuru
6	Catalytic Activity of polymer supported Nickel complex containing substituted benzimidazole for the oxidation of Benzoin	Shilpa M L, <b>Roopashree B</b> , Gayathri V	Frontiers of catalysis science & Technology and its Applications-2020	10 <sup>th</sup> & 11 <sup>th</sup> January PP-11 Year: 2020	-	-	Department of chemistry, St. Joseph's college
7	Synthesis and characterization of polyaniline (PANI)-[Cu <sub>2</sub> Cl <sub>4</sub> L <sub>3</sub> ].2H <sub>2</sub> O Nanocomposites by Inverted Emulsion polymerization	Ramanath Prabhu, <b>Roopashree B</b> , T Jeevananda	Synthesis and characterization of polyaniline (PANI)-[Cu <sub>2</sub> Cl <sub>4</sub> L <sub>3</sub> ].2H <sub>2</sub> O Nanocomposites by Inverted Emulsion polymerization	Feb 13-15, Pg. No.113, Year: 2019,	-	-	ICAMR-2019 proceedings Departments of Chemistry and Mechanical & Manufacturing Engineering, Ramaiah University of Applied Sciences Bengaluru and in Association with Catalysis Society of India – Bangalore Chapter
8	Studies of copper(II) complexes containing 2-[(3'-N-salicylidene)phenyl]benzimidazole	<b>Roopashree B</b> , Gayathri v	3rd International Conference on Recent Advances in Material Chemistry	Feb 13-15, 2019, Pg. No.113 Year: 2019	-	-	ICRAMC-2019 Proceedings Dept. of Chemistry, SRM Institute of Technology, Kattankulathur, in association with cea, France
9	Synthesis, Characterization and Antimicrobial activity of nickel(II) complexes of 2-[(3'-N-salicylidene)phenyl]benzimidazole	<b>Roopashree B</b> , Gayathri v	20th International Conference of International Academy of Physical Sciences (CONIAPS XX) On Recent Advances in Physical Sciences and Future Challenges	July 14-16, Pg. No.67, CHEM02, ABSTRACTS Year: 2017	-	-	Osmania University, Hyderabad, Telangana.

10	"Synthesis, characterization and biological activity of Nickel complexes of m-aminophenyl benzimidazole"	<b>Roopashree B, Gayathri v</b>	International conference on advanced materials and Technology-16	26 <sup>th</sup> to 28 <sup>th</sup> of May OID-23, Page No. 205, Year: 2016	-	-	Deaprtment of chemistry, ICMAT-2016 proceedings, SJCE, Mysore
11	"Studies of Ruthenium(III) complexes of 2-(3'-aminophenyl)benzimidazole".	<b>Roopashree B, Gayathri v</b>	National conference on pure and applied chemistry	29 <sup>th</sup> – 31 <sup>st</sup> Dec PP 107 Year: 2014	-	-	DOS in Chemistry, Manasagangotri, University of Mysore, Mysuru
12	Synthesis, characterization and antimicrobial activity of cobalt complexes containing 2(3'-N-Salicylidinephenyl) benzimidazole	<b>Roopashree B, Gayathri v</b>	Recent trends in Chemical Research	3 <sup>rd</sup> –4 <sup>th</sup> Jan Year: 2014	-	-	OP 04 Dept. of chemistry, SJCE, Mysuru
13	"Synthesis and characterization of ruthenium(II) carbonyl complexes of substituted benzimidazoles"	<b>Roopashree B, Gayathri v</b>	32 <sup>nd</sup> Annual conference of Indian Council of Chemists	28 <sup>th</sup> – 30 <sup>th</sup> Nov Year: 2013	-	-	IP-CYSA-11ICC and DOS in chemistry, Karnatak University, Dharwad
14	"Synthesis and characterization of transition metal complexes of m-aminophenyl benzimidazole and their biological acitivity".	<b>Roopashree B, Gayathri v</b>	4 <sup>th</sup> International conference on Current status and future perspective in pharmaceutical Sciences	20 <sup>th</sup> – 21 <sup>st</sup> July 2012 P-MC-5 Year: 2012	-	-	PES college of Pharmacy, Bengaluru
15	"Palladium(II) complexes of 2-substituted benzimidazoles"	<b>Roopashree B, Gayathri v</b>	International conference on synthetic and structural chemistry	8 <sup>th</sup> – 10 <sup>th</sup> Dec. PP 67 Year: 2011	-	-	Dept. of Chemistry, Mangalore University
16	Studies of zinc(II) complexes stabilized by 2(3'-N-Salicylidinephenyl) benzimidazole	<b>Roopashree B, Gayathri v</b>	National conference on Recent trends in materials chemistry and Engg.	29 <sup>th</sup> – 30 <sup>th</sup> Sept OP 17 Year: 2011	-	-	Dept. of chemistry, RNSIT, Bengaluru
17	"Synthesis and characterization of nickel and copper complexes of m-aminophenyl benzimidazole"	<b>Roopashree B, Gayathri v</b>	International congress on analytical science 2010	24 <sup>th</sup> – 27 <sup>th</sup> Nov 2010 ICP 23	-	-	Indian society of analytical scientists and CUSAT, Cohin
18	Synthesis and crystal structure elucidation of 2-[[3-(1H-benzimidazol-2-yl) phenyl] carbonimidoyl]phenol	Suman G, <b>Roopashree B</b> V. Gayathri, A. Sindhu, S. G. Bubbly, S. B. Gudennavar, and N. M. Nanje Gowda	National Seminar on New materials research and Nanotechnology	24 <sup>th</sup> – 27 <sup>th</sup> Nov Year: 2010	-	-	Proceedings 1-3 Dept. of physics, Govt. arts college, Ooty
19	Synthesis and characterization of zinc and cadmium complexes of m-aminophenyl benzimidazole	<b>Roopashree B, Gayathri v</b>	International conference on current trends in Chemistry and Biochemistry	18 <sup>th</sup> – 19 <sup>th</sup> Dec PP 109 Year: 2009	-	-	Dept. of chemistry, Bangalore University

#### iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
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1	3-day FDP on Empowering Teachers as Mental Health Facilitators	JSS Polytechnic for the Differently Abled, Mysuru	27-2 October 2025
2	FDP on Applied Chemistry (2025 Scheme)	East Point College of Engineering and Technology	30 <sup>th</sup> August 2025
3	State Level One Day Workshop on "Upgradation and Revision of Applied Chemistry Syllabus"	Maharaja Institute of Technology Mysore	12 <sup>th</sup> July 2025
4	FDP on Sustainable Development Goals	Department of MBA, JSSATEB	28-29 <sup>th</sup> June 2024
5	I-STEM's SAMAVESHA: Uniting Minds and Igniting Innovation	ISTEM, IISc, Bengaluru	16 <sup>th</sup> January 2024
6	Capacity Building in R&D	IQAC, JSSATEB	16 <sup>th</sup> March 2023
7	ATAL "ONLINE FDP on Waste Technology"	GOVT. MAHILA ENGINEERING COLLEGE AJMER	11 <sup>th</sup> -15 <sup>th</sup> January 2022
8	Opportunities and challenges in Entrepreneurship	Science and Technology Entrepreneurs Park (STEP), JSSATEB.	15 <sup>th</sup> -27 <sup>th</sup> March 2021
9	AICTE Training And Learning (ATAL) Academy Online FDP on "Stress-management"	GOVERNMENT COLLEGE OF ENGINEERING - SRIRANGAM.	1 <sup>st</sup> -5 <sup>th</sup> February 2021
10	5-day online FDP on Universal Human Values for DEEKSHARAMBH	NIT, Patna	23 <sup>rd</sup> -27 <sup>th</sup> November 2020
11	The role of advanced materials & nanotechnology in present scenario	Vemana Institute Of Technology, Bengaluru	22-26 <sup>th</sup> June 2020
12	Insights on writing research proposals and funding opportunities	ST Joseph Engineering College, Mangaluru	20-24 <sup>th</sup> July 2020
13	Materials and Medicinal Chemistry-2020 (MMC)	DBIT, Bengaluru	10-15 <sup>th</sup> August 2020
14	Faculty Development Program for student induction (FDP-SI)	AICTE, New Delhi	17 <sup>th</sup> – 19 <sup>th</sup> June 2019
15	Workshop on "New model curriculum for first year BE/BTech-CBCS syllabus (2018-19) as per outcome – based education (OBE) format including course outcomes and blooms taxonomy".	BIT, Bengaluru	07 <sup>th</sup> May 2018
16	Workshop on Emerging Trends in Applied Sciences	SJBIT, Bengaluru	22 <sup>nd</sup> to 24 <sup>th</sup> January 2018
17	FDP on "Recent Advances in Material Science"	BNMIT, Bengaluru	09 <sup>th</sup> to 13 <sup>th</sup> January 2017
18	Workshop on Accreditation process for Technical institutions	JSSATE, Bengaluru	26.8.2016 to 27.8.2016
19	One day seminar	Bangalore Chapter at Atomic Minerals Directorate for Exploration and Research, Bengaluru	15 <sup>th</sup> July 2015
20	FDP on "Recent Advances in Applied Chemistry and Nano Technology	Department of chemistry, JSSATE, Bengaluru	26 <sup>th</sup> - 30 <sup>th</sup> March 2012
21	National Science day	JSSATE, Bengaluru	28 <sup>th</sup> Feb 2011
22	Workshop on "Current opportunities and new directions in Catalysis"	BIT, Bengaluru	8 <sup>th</sup> -10 <sup>th</sup> February 2007
23	STTP on "Advances in instrumental methods of analysis"	BMSCE, Bengaluru	29 <sup>th</sup> - 30 <sup>th</sup> June 2006
24	Inhouse symposium in Chemistry and Bio chemistry	Bangalore University, Bengaluru	26 <sup>th</sup> -27 <sup>th</sup> December 2005
25	Workshop on revised syllabus, in Engg. Chemistry	City college of Engg., Bengaluru	6 <sup>th</sup> September 2002

**v. Workshops / Conference (Orgained)**

- "International Conference on Polymers for Sustainable Development" was organized by the Department in association with Nicolaus Copernicus University, In Torun, Poland on 07.02.2025 in online mode.
- Faculty orientation program for VTU affiliated college teachers on revised chemistry syllabus-2022 on 24<sup>th</sup> November 2022.

**vi. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)**

Nil

**9. Details of NPTEL / COURSERA courses completed**

Sl. No.	Name of the subject	Organised by	Date of completion / Award	Grade / Marks
1	Introduction to Molecular spectroscopy	University of Manchester	11 <sup>th</sup> October 2022	88%
2	Nanotechnology and nanosensors	Technion - Israel Institute of Technology	12 <sup>th</sup> December 2021	93%
3	Annual Refresher Program in Teaching (ARPIT-2021)	Swayam, NPTEL	21 <sup>st</sup> August 2021	76%
4	Chemistry	Coursera, University of Kentucky	9 <sup>th</sup> November 2020	100%
5	Chemicals and Health	Coursera, Johns Hopkins University	22 <sup>nd</sup> October 2020	97%
6	Metals in Biology	Swayam-NPTEL	September 2019	90%

#### 10. Membership of Professional Bodies:

1. Materials Today
2. Indian Society of Analytical Scientists, Bangalore Chapter

#### 11. Any other information you would like to share about your professional experience

Publons link: <https://publons.com/researcher/1631944/roopashree-b/>

Researcher Id: [W-2847-2018](#)

ORCID: [0000-0002-4485-8805](#)

Scopus ID: [55173589100](#)

Google Scholar Link: [eBomamiAAAAJ](#)

Vidwan ID: 101753

AICTE Faculty ID: 475474003

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