




Faculty Name	Dr. BASAVARAJIAH S. M.	
Academic Designation	Associate Professor (Chemistry)	
Educational Qualification	MSc., PhD, Post-Doc (IIT, Kanpur)	
Experience in Teaching & Industry	16 year	
Date of Joining	05/02/2026	
Official Email ID	drbasu-chem@dsatm.edu.in	

<https://orcid.org/0000-0002-5934-8410>

[Scopus ID: 24366236600](https://scopus.com/authorid/24366236600)

https://scholar.google.com/citations?hl=en&user=PncqQnAAAAAJ&view_op=list_works&sortby=pubdate

Educational Details

Doctor of Philosophy (Oct-2009): CHEMISTRY

Title: “Synthesis and Biological Activities of Some Nitrogen, Oxygen and Sulfur Containing Heterocyclic Derivatives”

Institution: Gulbarga University, Dept of Chemistry, GULBARGA-585 106, Karnataka, India

Master of Science (April 2004): CHEMISTRY: Gulbarga University, Department of Chemistry, GULBARGA-585 106, Bachelor of Science (April 2002):

Bachelor of Science (April 2002): Kottureshwara College, KOTTUR-583134, Karnataka, India.

Professional Experience

05-02-2026 onwards- Associate Professor, Department of Chemistry, Dayananda Sagar Academy of Technology and Management, Bangalore.

11/2017 to 02/2026 - Coordinator, P. G. Department of Chemistry, Vijaya College, R.V. Road, Basavanagudi, Bangalore-04.

04/2014 to 12/2017-Assistant Professor, P. G. Department of Organic Chemistry, Vijaya College, R.V. Road, Basavanagudi, Bangalore-04.

04/2013 to 04/ 2014 - **Principal Scientist**, Skanda Life Sciences India Pvt. Ltd. Bangalore.

10/2011to 04/2013 - **Senior Scientist**, LGC Promochem India Pvt. Ltd. Bangalore.

06/2010 to 10/2011 - **Group Leader**, LGC Promochem India Pvt. Ltd. Bangalore.

07/2009 to 06/2010 - **Post Doctoral Fellow**, Department of Chemistry, IIT, Kanpur.

07/2007 to 06/2008 -**Guest Lecturer**, Department of Chemistry, Gulbarga University.

08/2004 to 05/2005-**Trainee Chemist**, VB Medicare Pvt. Ltd. (Bioplus Life Sciences) Hosur, India.

Publications

PATENTS:

- ❖ **S. M. Basavarajaiah et al.** “Preparation of 3, 3’-Di(1-adamantyl)-4, 4’-dimethoxy-1, 1’-biphenyl”, **Indian Patent (2020) (Application No. 20204100362286 A).**
- ❖ **S. M. Basavarajaiah et al.** “Recent advances in immunotherapy for changing the therapeutic landscape of acute myeloid leukemia”, **Indian Patent-(2021) (Application No. 202141056262).**
- ❖ **S. M. Basavarajaiah et al.** “NOVEL DESIGN OF ANALGESIOMETER TO PREDICT ANALGESIC ACTIVITY” UK Designed patent (2023). (Application No. **6288130**)

BOOKS and BOOK CHAPTERS:

1. Bioactive Molecules against Infectious Diseases: Current Concepts and Updates Publishers: Invovationinfo e-Book, **ISBN: 978-1-63278-998-3, 2021 (Book Chapter).**
2. Compendious Practical Organic Chemistry, **ISBN: 978-1-63873-618-9, Notion Publishers (Book).**
3. Advanced Practical Organic Chemistry, **ISBN: 978-620-3-85370-4, Lambert Academic Publishers (Book).**
4. An updates of the Versatile Quinoline Heterocycles as a Anti-cancer Agents, De Gruyter publishes, journal Physical Sciences Reviews, <https://doi.org/10.1515/psr-2021-0040> **(Book Chapter).**
5. Bio-potential Heterocycles, **ISBN: 978-620-4-71721-0, Lambert Academic Publishers (Book).**
6. Concise Organic Spectroscopy: Problems with Solution, OrangeBook Publishers **ISBN: 978-9-35621-206-0 (Book).**
7. Chemistry of Quinolines: Synthesis and Biological Activities, Lambert Academic Publishers, **ISBN: 978-620-5-52644-6 (Book).**
8. Oleanolic Acid and Its Derivatives: Therapeutic Potential in Colon Cancer **(Chapter-6)**, Nova Science Publishers, Book Title: Properties and Uses of Oleanolic Acid. **ISBN: 979-8-89113-498-0**

RESEARCH PUBLICATIONS:

1. R. Kavitha, M. Srinivas, Prashantha Karunakar, Sharanabasava V. Ganachari, S. M. Basavarajaiah, Facile-Biogenic ZnO Nanoparticle Synthesis for Anticancer Investigation Against MCF-7 Cells and Photodegradation of Alizarin Red Under UV Light Illumination, *ChemistrySelect*, **11**(5), 5 February 2026, e03411. <https://doi.org/10.1002/slct.202503411>
2. S. L. Vidhya, M. B. Sridhara, Mallesha Ningegowda, H. Shanavaz, S. M. Basavarajaiah, Synthesis, Structural Characterization, and Biological Activities of Novel 2-((9-Oxo-9H-xanthen-3-yl)oxy)acetohydrazide Derivatives, *ChemistrySelect*, 2026. <https://doi.org/10.1002/slct.202506700>
3. Sridhar B. T., Suliphuldevara Mathada Basavarajaiah, Nagesh Gunavanthrao Yernale, Mohit Agrawal, Ramesh S. Gani, Mohd Imran, Jisha S. P., Design, Synthesis, Spectral Characterization, and Antimicrobial Evaluation of Novel Indole-2-Carbohydrazide Derivatives: Experimental and Computational Insight, *ChemistrySelect*, **Volume10, Issue47** December 15, 2025, e04757. <https://doi.org/10.1002/slct.202504757>
4. Lavanya Nagamalla, Kavitha Kothireddy, Basavarajaiah Suliphuldevara Mathada, Sharanagouda J. Patil, Lavanya Lakshminarayana, New Horizon and Advancements in Synthetic and Biological Applications of Active Methylene Acetonitrile: Mini-Review, *Journal of Chemistry*, 2025. <https://doi.org/10.1155/joch/8938074>
5. N. Devaraju Bilidegalu, S.M. Basavarajaiah, M.B. Sridhara, H. Shanavaz, A. Venkatesulu, Prashantha Karunakar, Theoretical and experimental insights of unexplored 1, 6- disubstituted-4-methyl-2-propyl-1H-benzo[d]imidazole hydrazones: Synthesis, Spectral, DFT, In vitro and In silico anti-oxidant applications, *Journal of Molecular Structure*, Volume 1349, Part 3, 2026, 143834. <https://doi.org/10.1016/j.molstruc.2025.143834>
6. Manjappa VK, Venkatappa MM, Urs D, Basavarajaiah SM, Venkataramaiah S, Mahendranathsingh SBS, Mohan S, Pushpavathi HR, Krishnappa DK, Sannanigaiah D. Urolithin-C Suppresses Inflammation by Blocking NF- κ B Signaling Pathway in LPS-Induced RAW 264.7 Macrophages, *J Inflamm Res.* 2025;18:12463-12483 <https://doi.org/10.2147/JIR.S539273>
7. B. T, Sreedhar., G. Y, Nagesh, S. M, Basavarajaiah., Karunakar, P., Aradhya K. J, V., T. J, H. Hosseini-Bandegharai, A. (2025). Exploration of novel imidazo[4,5-b]indoles scaffolds as multi target peroxidase, acetylcholinesterase, and butyrylcholinesterase inhibitors: synthesis, spectral analysis, and molecular docking studies. *Spectroscopy Letters*, 1–18. <https://doi.org/10.1080/00387010.2025.2546897>
8. Georges Teikam Kenda, Donald Raoul Tchuifon Tchuifon, Aurelien Bopda, Merdouce Dongmo, Idris-Herman Kuete Tiotsop, Kora Lucretse Tiomo Nguena, Cyrille Ghislain Fotsop, Nche George Ndifor-Angwafor, S. Mathada Basavarajaiah, Ahmad Hosseini-Bandegharai, Investigating the adsorption of acid blue 90 onto porous MIL53(Fe) and Cu-BTC sorbents: An examination of process parameters, isotherm modelling, and kinetic studies, *Results in Chemistry*, 2025, 102615. <https://doi.org/10.1016/j.rechem.2025.102615>
9. S. M. Basavarajaiah N. Devaraju Bilidegalu, S. L. Vidhya, K. Nirusha, H. S. Nagendra Prasad, Mallesha Ningegowda, Syeda Hajira Banu, M. B. Sridhara, A. P. Ananda, Harnessing the Therapeutic Potential of Benzimidazole Encompassing Piperazine Hybrids: Synthesis, Spectral Analysis, In Vitro, and In Silico Biological Evaluation, *ChemistrySelect*, **10**(25), 2025, e01542. <https://doi.org/10.1002/slct.202501542>
10. Parveen Rajesab, Basavarajaiah Suliphuldevara Mathada, Vidya Niranjana, Leena Sinha, Anagha S. Setlur, Anushree Maurya, K. Chandrashekar, Onkar Prasad, Unveiling a novel thiazolo[2,3-c][1,2,4]triazole scaffolds as a dual cyclooxygenase and cholinesterase inhibitors: Spectral analysis, DFT calculations, in vitro and in silico studies, *Journal of Molecular Structure*, Volume 1345, 2025, 143166. <https://doi.org/10.1016/j.molstruc.2025.143166>
11. Sridhar, B. T., Gunavanthrao Yernale, N., & Suliphuldevara Mathada, B. (2025). Contemporary Developments in the Transition-Metal Catalyzed Synthesis of Indoles. A Review. *Organic*

12. Nisar A. Dangroo, Ziad Moussa, Mustafa S. Alluhaibi, Abdulrahman A. Alsimaree, Mohammed B. Hawsawi, Reem I. Alsantali, Jasvinder Singh, Nidhi Gupta, Basavarajaiah S. M., Prashantha Karunakar, J. M. Mir, Manzoor A. Rather and Saleh A. Ahmed, Novel C-3 and C-20 derived analogs of betulinic acid as potent cytotoxic agents: design, synthesis, *in vitro* and *in silico* studies, *RSC Adv.*, 2025, **15**, 15164-15177. DOI: [10.1039/D5RA01038A](https://doi.org/10.1039/D5RA01038A)
13. Rajesh Bonagiri, Ramesh Sabu Gani, Basavarajaiah Suliphuldevarada Mathada, Murigendra Basayya Hiremath, Nivedita Rajashekhar Bashetti, Vishnu Ashok Adole, Shrinivas Dattatraya Joshi, Govinda Anjanayya, Shailendra Shivand Mangalawede, Synthesis, spectroscopic, theoretical and computational investigations of novel indole fused tris-heterocyclic compounds: as high portentous antimicrobial agents, *Journal of Molecular Structure*, Volume 1339, 2025, 142357. <https://doi.org/10.1016/j.molstruc.2025.142357>
14. M.C. Roopa, S. Thirumala, Sharadadevi Kallimani, B.M. Manohara, S.M. Basavarajaiah, Green synthesis of nanoparticles for enhanced wastewater treatment and other applications: A review and future perspectives, *Next Materials*, Volume 8, 2025, 100664, <https://doi.org/10.1016/j.nxmte.2025.100664>
15. Devar, S., More, S., Patil, O. Basavarajaiah S. M., Synthesis, Spectroscopic, DFT Calculation and Molecular Docking Studies of Indole Derivative. *J Fluoresc* (2025). <https://doi.org/10.1007/s10895-025-04301-2>
16. R. Kavitha, M. Srinivas, Prashantha Karunakar, G.R. Rekhashree, R. Priyanka, K.G. Shilpashree, M.S. Kavya, S.M. Basavarajaiah, Unveiling of bio-inspired synthesis, characterization, DFT calculations, molecular modeling of silver (Ag/Ag₂O) nanocomposite: A promising sustainable material against human breast cancer, *Tetrahedron Green Chem*, Volume 5, 2025, 100078. <https://doi.org/10.1016/j.tgchem.2025.100078>
17. Nagesh Gunavanthrao Yernale, Basavarajaiah Suliphuldevara Mathada, Oruganti Anjaneyulu, N Basamma, N. D Sudharani, P Kaveri, Prashantha Karunakar, Prabhurajeshwar Chidre, H M Navya, Harnessing the therapeutic potential of macromolecular metal (II) complexes derived from quinoline and thiazole core ligands: synthesis, spectral analysis, *in vitro* and *in silico* biological evaluation, *Journal of Molecular Structure*, Volume 1338, 2025, 142280, <https://doi.org/10.1016/j.molstruc.2025.142280>
18. Anjanayya, G., Gani, R., Hiremath, M., Basavarajaiah S. M. *et al.* Exploration of a Novel Indole/Pyrazole Scaffold as a Promising Dual α -Glucosidase and α -Amylase Inhibitor: an *In Vitro*, *In Vivo* and *In Silico* Approach Toward Antidiabetic Drug Design. *Russ J Bioorg Chem* **51**, 755–771 (2025). <https://doi.org/10.1134/S1068162024605391>
19. Shivakumara K. N., Basavarajaiah S. M., Nagesh G. Y., Prashantha K., Yogesh M., Abhishek N. R., Odesha H. N., Design, Synthesis, and *In Vitro* and *In Silico* Biological Exploration of Novel Pyridine-Embedded 1,3,4-Oxadiazole Hybrids as Potential Antimicrobial Agents, *Journal of chemistry*, 2025. <https://doi.org/10.1155/joch/4427650>
20. B. Jaishree, S. M. Basavarajaiah, Prashantha Karunakar, Sunil Laxman Dhonnar, G. Y. Nagesh, M. Punithkumar, P. Bhargav, K. J. Vishwas Aradhya, Exploration of 1,3,4-oxadiazoles Engrafted With Indole and Phthalimide Scaffolds as Multi Target Peroxidase, Acetylcholinesterase, and Butyrylcholinesterase Inhibitors: Synthesis, DFT Calculations, and Molecular Docking Studies, *ChemistrySelect*, 10(6), 33, 2025, e202404925. <https://doi.org/10.1002/slct.202404925>
21. Navya H M, Prabhurajeshwar Chidre, Nagesh Gunavanthrao Yernale, Mangalagouda S, Basavarajaiah S M, Eco-friendly synthesis of iron oxide nanoparticles (IONPs) from aqueous extract of *Cissus quadrangularis* L. (Veld grape): Characterization and pharmaceutical evaluation, *Journal of Molecular Structure*, 1332, 2025, 141685. <https://doi.org/10.1016/j.molstruc.2025.141685>
22. Basavarajaiah S. M. Jisha, S.P., Nagesh, G.Y., Karunakar, P. et al. Exploration of novel isoniazid embedded 1,3,4-oxadiazole hybrids as anti-TB, antioxidant, and COX inhibitors: synthesis, spectral analysis, and molecular modeling studies. *J IRAN CHEM SOC* (2025). <https://doi.org/10.1007/s13738-025-03179-y>

23. Parveen Rajesab, Basavarajaiah Suliphuldevara Mathada, Vidya Niranjana, Anushree Maurya, Anagha S. Setlur, Onkar Prasad, K. Chandrashekar, Leena Sinha, Insights into Novel Isoniazide Encompassing triazolo[4,3-b][1,2,4]triazoles as Anti-TB, antioxidant and antidiabetic agents: A spectral analysis, DFT calculations, ADME, In vitro, and in silico molecular modeling studies, *Journal of Molecular Structure*, 1334, 2025, 141876. <https://doi.org/10.1016/j.molstruc.2025.141876>
24. Basavaraj Hiremath, Anushree Maurya, Nagesh GY, Onkar Prasad, Prashantha Karunakar, Leena Sinha, Mukhtar Ahmed, Basavarajaiah SM, Synthesis, Structural, DFT studies, Biological Effectiveness, and Molecular Docking Aspects of Multitarget Novel N-(4-Phenylthiazol-2-yl)hydrazine carboxamide Hybrids as COX inhibitors, Anti-TB, and Anti-oxidant activity, *Journal of Molecular Structure*, 1321, 4, 2025, 140081. <https://doi.org/10.1016/j.molstruc.2024.140081>
25. S. M. Basavarajaiah K. Harish Kumar, B. T. Sridhar, Prashantha Karunakar, G. Y. Nagesh, Nidhi Gupta, S. P. Jisha, Investigation of Novel 2-(Chloromethyl)-5-(3, 5-Disubstituted-1H-Indol-2-yl)-1, 3, 4-Oxadiazole Derivatives as In Vitro, and In Silico Bioactivity Potential: Anti-inflammatory, Anti-TB and Antioxidant Activities Study, *ChemistrySelect*, 9, 33, 2024, e202401756. <https://doi.org/10.1002/slct.202401756>
26. Govinda Anjanayya, Ramesh Gani, Avinash Kudva, Shrinivas Joshi, Murigendra Hiremath, Apsara Kavital, Karabasanagouda Timanagouda, Basavarajaiah Mathada, Mohammad Javeed, Raifa Aziz, Shamprasad Raghu, Synthesis of novel oxadiazole derivatives: DFT calculations, molecular docking studies, and in vitro, in vivo evaluation of antidiabetic activity using *Drosophila melanogaster* model. *J IRAN CHEM SOC* 21, 2221–2237 (2024). <https://doi.org/10.1007/s13738-024-03067-x>
27. B.T. Sridhar, Nagesh Gunavanthrao Yernale, Ramesh S. Gani, Nidhi Gupta, Sharanabasava V. Ganachari, Basavarajaiah Suliphuldevara Mathada, A concise review on recent development of indole derivatives for anticancer activities, *Journal of the Indian Chemical Society*, 101, 10, 2024, 101282. <https://doi.org/10.1016/j.jics.2024.101282>
28. B.T. Sridhar, Mohammad Javeed, Prashantha Karunakar, G.Y. Nagesh, Mukhtar Ahmed, R. Nalini, **S. M. Basavarajaiah***, Investigating the molecular interactions of 11-substituted-1-(4-chlorophenyl)-8H-indolo[3,2-c][1,2,4]triazolo[3,4-a]isoquinolines for Antimicrobial Potential: Synthesis, Spectral, In vitro and In silico study interpretations, *Journal of Molecular Structure*, Volume 1312, Part 1, 2024, 138617. <https://doi.org/10.1016/j.molstruc.2024.138617>
29. **Basavarajaiah S. M.**, et al, Discovery of Novel Isatin Encompassing Oxadiazoles as Potential Inhibitors Against New Delhi Metallo-B-Lactamase-1: Synthesis, Spectral Analysis, Antimicrobial and Molecular Modeling Studies, *Russian Journal Bioorganic Chemistry*, 50(4), 2024, pp.1-4.
30. Leena V. Hublikar, Fatheali A. Shilar, **Basavarajaiah S. M.**, Sharanabasava V. Ganachari, Comprehensive investigation of green solutions for sustainable wastewater remediation: A review, *Journal of Molecular Liquids*, 2024, 124532, ISSN 0167-7322. <https://doi.org/10.1016/j.molliq.2024.124532>
31. Aravind R. Nesaragi, Jari S. Algethami, Mabkhoot Alsaiari, Saeed A. Alsareii, **Basavarajaiah S. M.**, Srikantamurthy Ningaiah, B.S. Sasidhar, Farid A. Harraz, Siddappa A. Patil, A comprehensive overview of coumarinyl-triazole hybrids as anticancer agents, *Journal of Molecular Structure*, 1302, 2024, 137478, <https://doi.org/10.1016/j.molstruc.2024.137478>
32. Roopa D. L., **S. M. Basavarajaiah*** & Punarva H. B., Design, Synthesis, Spectral Analysis, Drug Likeness Prediction, and Molecular Docking Investigations of New Naphtho[2,1-b]Furan Encompassing Pyrimidines as Potential Antimicrobial Agents, 29 Oct 2023, *Polycyclic Aromatic Compounds*, DOI: [10.1080/10406638.2023.2272012](https://doi.org/10.1080/10406638.2023.2272012) (IF:2.78)
33. Nidhi Gupta, Vipin Saini, **S. M. Basavarajaiah***, Mohammad Ovais Dar, Rina Das, Randhir Singh Dahiya, 1,3-Oxazine as a Promising Scaffold for the Development of Biologically Active Lead Molecules, *ChemistrySelect*, 2023, <https://doi.org/10.1002/slct.202301456>. (IF:2.42)

34. Nalini R., Nagesh G.Y., Mohammed J., Prashantha Karunakar, **Basavarajaiah S. M.,*** Ramakrishna Reddy K. and Rakesh B. M., Synthesis, spectral analysis, DFT calculations, in vitro screening, and molecular docking of new metal complexes with quinoline and isoniazid Schiff base as Antimicrobial and Antioxidant agents, Polycyclic Aromatic Compounds, September 2023, [DOI: 10.1080/10406638.2023.2265024](https://doi.org/10.1080/10406638.2023.2265024), (IF:2.78)
35. Nagesh Gunavanthrao Yernale, **Basavarajaiah Suliphuldevara Mathada**, Giridhar Baburao, Sushmita Sahane, Pooja Patil, Prashantha Karunakar, Adavala Venkatesulu, In silico, in vitro and docking exploration for some novel coordination complexes derived from bioactive indole moiety, Journal of Molecular Structure, 1294, Part 2, 2023, 136512, <https://doi.org/10.1016/j.molstruc.2023.136512>(IF:3.81)
36. **Suliphuldevara Mathada Basavarajaiah,*** Nagesh Gunavanthrao Yernale, Munianjinappa Punith Kumar & Budimath Rakesh (2023) Review on Contemporary Synthetic Recipes to Access Versatile Coumarin Heterocycles, Polycyclic Aromatic Compounds, DOI: [10.1080/10406638.2023.2235874](https://doi.org/10.1080/10406638.2023.2235874) (IF:2.78)
37. Nidhi Gupta, Hitesh Kumar, Sumeet Gupta, **Basavarajaiah S. M.**, Kamal Saini, A Concise Review on Natural Products and Their Derivatives for Breast Cancer Treatment, Chemistry and Biodiversity, 2023, <https://doi.org/10.1002/cbdv.202300688>(IF:2.81)
38. Nagesh Gunavanthrao Yernale, **Basavarajaiah Suliphuldevara Mathada**, Swami Shivprasad, Sunilkumar Hiremath, Prashantha Karunakar, Adavala Venkatesulu, Spectroscopic, Theoretical and Computational Investigations of Novel Benzo[b]thiophene based ligand and its M(II) complexes: As High Potent Antimicrobial and Antioxidant Agents, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 2023, 123114, <https://doi.org/10.1016/j.saa.2023.123114>(IF:4.81)
39. **Basavarajaiah S M.,*** et al., Exploration of Indolo[3,2c]isoquinoline derived triazoles as Potential Antimicrobial and DNA cleavage agents: Synthesis, DFT calculations, and Molecular Modeling Studies, **Bioorganic Chemistry**, 2023. <https://doi.org/10.1016/j.bioorg.2023.106598> (IF:5.31)
40. **Basavarajaiah S M.**, et al., Studies on design, fabrication and electrochemical performance of cobalt aluminate modified pencil electrode towards urea detection, **Applied Surface Science Advances**, 15(6), 2023, 100409. <https://doi.org/10.1016/j.apsadv.2023.100409>
41. **Basavarajaiah S M.,*** et al., Novel pyrimidines as COX-2 selective inhibitors: Synthesis, DFT analysis and Molecular docking and dynamic simulation studies, **Journal Biomolecular and Dynamics**, 2023. <https://doi.org/10.1080/07391102.2023.2202248> (IF:5.23)
42. **S.M. Basavarajaiah,*** et al., Naphtho[2,1-b]furan derived triazole-pyrimidines as Highly potential InhA and Cytochrome c peroxidase inhibitors: Synthesis, DFT calculations, Drug-Likeness profile, molecular docking and dynamic studies, Journal of Molecular Structure, 2023, 135685, <https://doi.org/10.1016/j.molstruc.2023.135685>
43. Riham Sghyar, **S. M. Basavarajaiah**, Alae Chda, Oussama Moussaouia, El Mestafa ElHadrami, Abdeslem Ben-Tama, LotfiAara, Joel T. Mague, K. Prashantha, Javeed Mohammad, Nada Kheira Sebbar, El Mokhtar Essassi, **Journal Molecular Structure**, 2023 <https://doi.org/10.1016/j.molstruc.2023.135695>
44. Madhura D, Ramagopal D, Javeed Mohammad, Nagesh G. Y. and **Basavarajaiah S. M.**, Synthesis, structural investigations, DFT calculations, and molecular docking studies of novel 2-(substituted-aryloxymethyl)-5-(pyridin-4-yl)-1, 3, 4-oxadiazoles: Highly potential InhA and cytochrome c peroxidase inhibitors, **Polycyclic Aromatic Compounds**, Feb.2023 <https://doi.org/10.1080/10406638.2023.2174997>.
45. **S M Basavarajaiah,*** Y. G. Nagesh, and Jeelan N. Basha, **ChemistrySelect**, Jan. 2023. [DOI: 10.1002/slct.202204181](https://doi.org/10.1002/slct.202204181)
46. **S M Basavarajaiah*** and Y.G. Nagesh, **Organic Preparations and Procedures International**, Jan. 2023, [DOI: 10.1080/00304948.2022.2151810](https://doi.org/10.1080/00304948.2022.2151810)

47. S M Basavarajaiah et al., *Journal Molecular Structure* 2022. <https://doi.org/10.1016/j.molstruc.2022.134356>
48. R. Nalini, S. M. Basavarajaiah, G. Y. Nagesh, M. Javeed, and K. Ramakrishna Reddy, *Polycyclic Aromatic Compounds*, 2022, <https://doi.org/10.1080/10406638.2022.2138927>
49. S M Basavarajaiah and Jeelan N. Basha, *Chemical Biology & Drug Design*, September 2022. <https://doi.org/10.1111/cbdd.14135> (IF:2.9).
50. S M Basavarajaiah, *Polycyclic Aromatic Compounds* 2022. <https://doi.org/10.1080/10406638.2022.2089177> (IF:3.74).
51. S M Basavarajaiah and Jeelan N. Basha, *Polycyclic Aromatic Compounds* 2022 <https://doi.org/10.1080/10406638.2022.2080728> (IF:3.74).
52. S M Basavarajaiah, et al., *Molecular Diversity*, 2022 <https://doi.org/10.1007/s11030-022-10448-y>. (IF:3.34).
53. S M Basavarajaiah et al., *Journal Molecular Structure*, 1262, 2022, 132977. (IF:3.85). <https://doi.org/10.1016/j.molstruc.2022.132977>
54. S M Basavarajaiah and B. S. Sasidhar, *Journal Molecular Structure*, 1261, 2022, 132808. <https://doi.org/10.1016/j.molstruc.2022.132808> (IF:3.85).
55. Nagesh G.Y., Basavarajaiah S. M., Guruprasad B.V., Vivekanand D. B., Mahendra Raj K., Mahadev D.U., and Mruthyunjayaswamy B.H.M. *Journal of Molecular Structure* 1248 (2022) 131410. (IF:3.85). <https://doi.org/10.1016/j.molstruc.2021.131410>
56. Jeelan N Basha, S M Basavarajaiah, and Shyamsunder K. *Molecular Diversity*, Jan-2022. <https://doi.org/10.1007/s11030-022-10387-8> (IF:3.34).
57. R. Nalini, S. M. Basavarajaiah, G. Y. Nagesh, and K. Ramakrishna Reddy, *Journal of Indian Chemical Society*, 99(1), 2022,100273. (IF:0.81). <https://doi.org/10.1016/j.jics.2021.100273>
58. R. Nalini, S. M. Basavarajaiah, G. Y. Nagesh, and K. Ramakrishna Reddy, *Asian J. Chemistry*, 34(2), 2022, 389-394. (IF:0.61). <https://doi.org/10.14233/ajchem.2022.23592>
59. S M Basavarajaiah, J. Mohammed and Y.G. Nagesh, *Polycyclic Aromatic Compounds*, December-2021 DOI: [10.1080/10406638.2021.2019062](https://doi.org/10.1080/10406638.2021.2019062) (IF: 3.74).
60. S M Basavarajaiah, Y.G. Nagesh, Jeelan N Basha and Jaishree B. *Tetrahedron Letters*, 85, 2021, 153458. <https://doi.org/10.1016/j.tetlet.2021.153458> (IF: 2.71).
61. Basavarajaiah S. M. and Nagesh G. Y., *Journal of the Indian Chemical Society* 98 (2021) 100174. (IF: 0.74).
62. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, *Der Pharma Sinica*, 2021, 12(5), 11-15. (IF: 0.54).
63. Jeelan Basha N., Basavarajaiah S. M., Swathi Baskaran and Prasanna Kumar, *Natural Product Research*, July-2021(<https://doi.org/10.1080/14786419.2021.1955361>). (IF: 2.94).
64. S M Basavarajaiah and Y.G. Nagesh, An Ample Review on the Synthetic Recipes of Quinoline and its Derivatives, *Synthetic Communications*, Feb 24, 1133-1159, 2021. (IF: 2.14).
65. Basavarajaiah S M, Raviraj P, Nagesh G Y, A *Bioorganic and Medicinal Chemistry*, 32 2021, 115973. <https://doi.org/10.1016/j.bmc.2020.115973> (IF: 3.64).
66. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, *Indian J. Chem.*, 55B, 1115-1119 (2018).
67. K. N. Sheshandrakumar, J. Srividya, B. J. Narayanaswamy, K. Umesha and S. M. Basavarajaiah, *Indian Journal of Heterocyclic Chemistry*, 27(3), 281-288, (2017).
68. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, *Indian J. Chem.*, 55B, 1115- 1119 (2016).
69. B. H. M. Mruthyunjayaswamy, B. K. Shanthaveerappa and S. M. Basavarajaiah, *J. Indian of Chemical Society*, 87(9), 1109- 1115(2010).
70. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, *Indian J. Chem. Sec.*, 48B (8), 1117-1126 (2010).
71. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, *Heterocyclic Communications*, 3(15), 217(2009).

72. B. H. M. Mruthyunjayaswamy and **S. M. Basavarajaiah**, "Synthesis and antimicrobial activity of novel ethyl 5-(ethoxycarbonyl)-4-methylthiazole-2-yl-carbamate and its derivatives", **Indian J. Chem. Sec.**, 48B (9), 1274-1278 (2009).
73. **S. M. Basavarajaiah** and B. H. M. Mruthyunjayaswamy, "Synthesis and antimicrobial activity of some 5-substituted-3-phenyl-indole-2-[N-(substituted-2H-pyran [2, 3- b]quinoline-2-one)-3-carboxyl] carboxyhydrazide", *Chem. Pharma. Bull.* 57(6), 557(2009).
74. Fazlur Rahaman, Basavaraj Hiremath, **S. M. Basavarajaiah**, B.H.M. Jayakumarswamy and B. H. M. Mruthyunjayaswamy, **J. Indian Chem. Soc.**, 85, 381(2008).

International Conferences:

1. Attended International conference of Vedic Sciences, Held at Vijaya College, Jayanagara, Bengaluru 21-01-2026 to 23-01-2026.
2. **S. M. Basavarajaiah**, Fazlur Rahaman, Adheer Kumar and B. H. M. Mruthyunjayaswamy. Participated and presented a paper entitled "Synthesis of novel thiazole semicarbazide derivatives and pharmacological activities" (PP-112) in the 2nd International Conference on Heterocyclic Chemistry-200 held at University of Rajasthan, JAIPUR, during December 16- 19, (2006).

EDITORIAL/REFREE BOARD:

1. Editorial Board Member: Discover Applied Sciences/ formerly SN Applied Sciences; (Springer Publisher).
2. Academic editor: Journal of Chemistry: Wiley Publisher (Hindwai Publisher).
3. Lead Editor: For Special issue on Heterocycles in Medicinal chemistry; Journal of Chemistry: Wiley Publisher (Hindwai Publisher).
4. Academic editor: The Scientific World Journal: Wiley Publisher (Hindwai Publisher).
5. Editorial Board Member, Bentham Science.
6. Board of Referee: Arkivoc Journal (Arkat USA).
7. Editorial Advisor for Cambridge Scholars Publishing, NE6 2PA, UK.
8. In Editorial Board of Journal of Analytical Oncology.
9. Editor for Annals of Biotechnology and Biomedical Science

PROFESSIONAL BODIES MEMBERSHIP:

- ♦ Indian Science Congress Association (ISCA): L321562.
- ♦ Indian Society for Radiation and Photochemical Sciences (ISRAPS): L480

INVITED TALKS / SYMPOSIUMS / CONFERENCES / SEMINARS:

- ❖ Guest lecture @ Indian Academy Degree College, Bengaluru on 10-01-2023. Title: "**Basics Concepts Organic Spectroscopy**".
- ❖ Invited Talk @ Surana College, Bengaluru on 06-05-2023. Title: "**Basics Concepts Chromatography**".
- ❖ Guest lecture @ Nrupatunga University, Bengaluru on 07-07-2023. Title: "**Organic Spectroscopy**".
- ❖ Guest lecture @ Surana College, Bengaluru on 12-03-2024. Title: "**Organic Spectroscopy**".
- ❖ Guest lecture @ Nrupatunga University, Bengaluru on 26-03-2024. Title: "**Applications of UV and IR Spectroscopy**".
- ❖ Speaker at Industry-Academic Interaction "Workshop on Spectroscopic Techniques and Applications" Topic: Unraveling Molecular Secrets: Advanced Spectroscopic Techniques For

Structural Elucidation @ DEPARTMENT OF CHEMISTRY, BANGALORE UNIVERSITY, on 13th March 2025.

BOE and BOS member for following Universities and Autonomous Post-Graduation Institutions:

- ❖ Bengaluru City University, Bengaluru-560001.
- ❖ Bangalore University, Bangalore-560056.
- ❖ Bengaluru North University, Bengaluru.
- ❖ Rani Chennamma University, Belagavi.
- ❖ Nrupathunga University, Bengaluru, Karnataka 560001 (BOS and BOE member).
- ❖ Ramaiah College (Autonomous), Bangalore-560054 (BOS and BOE member).
- ❖ Mount Carmel College (Autonomous), Bengaluru (BOS and BOE member).
- ❖ Jain University (Autonomous), Bangalore-560054 (BOS and BOE member).
- ❖ Christ University, Bengaluru-29.
- ❖ Indian Academy Degree College, Hennur Cross, Kalyan Nagar, Bengaluru -560043.
- ❖ Jyoti Nivas College Autonomous, Hosur Road, Bangalore-560095.
- ❖ NMKRV College for Women, 3rd block, Jaya Nagar East, Banashankari, Bengaluru-56004.
- ❖ BMS College for Women, Basavanagudi, Bengaluru.
- ❖ Maharani Cluster University, Bengaluru-560001.
- ❖ Surana College, Bangalore.

Resource person for following Institutions:

- ❖ V.V Puram Science College, K.R Road, Bengaluru -04.
- ❖ National Degree College, Pampa Mahakavi Road Basavanagudi-560064, Bengaluru.
- ❖ KLE Society's S Nijalingappa College, No 1040, II Block, Rajajinagar, Bengaluru560010.
- ❖ Resource person in Workshop "ChemDraw and ChemSketch" Conducted by Maharani Lakshmi Ammani College, Bengaluru on 03-10-2023.

ACHIEVEMENTS:

- ❖ Guided 25 Students for projects in their Post Graduation Course.
- ❖ Completed one **VGST-SPICE** Programme in 2015-16 (0.30 L).
- ❖ Successfully completed one **UGC-Minor Research Project** funding amount is 5 lakh for the financial year 2016-2018.
- ❖ KSCST Student project SPP- 04 projects completed.
- ❖ Successfully organized as Organizing Secretary a Two National Conference on "**ARTIFICIAL INTELLIGENCE (AI) –A MULTIDISCIPLINARY APPROACH IN RESEARCH (AIMAR-2025)**" conducted by Vijaya College, R.V. Road, Bengaluru-560 004, In Association with IQAC & IIC, on 11th and 12th September 2025.
- ❖ Successfully organized "One Day Lecture Workshop" on *Heterogeneous Catalysis in Organic Synthesis – Concepts and Industrial Applications* In Collaboration with Catalysis Society of India (Bangalore Chapter), working as a Convener on 18-10-2019 in PG Department of Chemistry, Vijaya College, Bengaluru.
- ❖ Successfully organized National Webinar Lecture Series on "**SPECIAL TOPICS IN ORGANIC CHEMISTRY**" From: 09.06.2020 to 11.06.2020, working as a Convener, conducted by PG Department of Chemistry, Vijaya College, Bengaluru.

Conference Attended

3. Participated in the One Day Workshop titled “Molecular Docking in Drug Discovery” held on September 20th 2025 at the Department of Human Genetics, NIMHANS, Bengaluru.
4. Successfully completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Indian Institute of Kharagpur, from 22.07.2025 to 31.07.2025.
5. Participated and presented Poster entitled “Discovery of novel isatin encompassing oxadiazoles as potential inhibitors against New Delhi metallo- β -lactamase-1: Synthesis, spectral analysis, antimicrobial and molecular modeling studies” at International Symposium on Organic Chemistry, Organized by Theime-IISC, Bengaluru on 28th October, 2023.
6. Participated and presented Poster entitled “Synthesis of Isatin based Metal (II) Complexes as Electroactive Material and its Biological Evaluation by In Vitro & In Silico Methods” at International Symposium on Organic Chemistry, Organized by Theime-IISC, Bengaluru on 28th October, 2023.
7. Participated and presented (Poster) at New Vistas in Chemistry, National conference organized by Bangalore University, Bengaluru on 3 and 4th August 4, 2022.
8. Attended the Faculty Development Programme for Chemistry and Biochemistry, Teachers from 04-07-2022 to 09-07-2022 organized by Department of chemistry and biochemistry, Vijaya College, R. V. Road, Bengaluru-560004.
9. Attended the one-week National e-Workshop on Innovation and Intellectual Property Rights (NeW IPR-2022) from June 13-18, 2022 with the theme IP for ALL organized by CSIR-Institute of Minerals and Materials Technology (IMMT), Regional Research Laboratory, Bhubaneswar.
10. Attended the one week National e-Workshop on Innovation and Intellectual Property Rights (NeW IPR-2022) from June 14-19, 2021 with the theme IP for ALL organized by CSIR-Institute of Minerals and Materials Technology (IMMT), Regional Research Laboratory, Bhubaneswar.
11. Attended the International Webinar “From Minerals to Futuristic Functional Materials” by Prof. T. N. Guru Row, Honorary Professor, IISc, Bengaluru, on June 10, 2020, 5.30 to 6.30 PM organized by St. Joseph’s College, Bangalore-560027.
12. Participated in one day symposium on “CHEM-THRIST 2019- Best Practices in Chemistry” organized by PG Department of Chemistry, on 27th March 2019 at NMKRV College, Bengaluru-11.
13. Participated in two days workshop on “Hands on training on Laboratory equipments and instrumentation” organized by Department of chemistry & Equiptronics Mumbai, on 12th and 13th March 2019 at Vijaya College, Bengaluru-04.
14. Attended Professional Development Workshop on BACK TO NATURE – NATURE FRIENDLY ATTITUDES, SCIENCES AND TECHNOLOGIES (BN-NFAST), held at Department of Chemistry, Ramaiah Institute of Technology, Bangalore-560054, on 24TH - 26TH June-2017.
15. Attended Science Academies Lecture Workshop on “Organic Chemistry from Bench to Industry” organized by P.G. Department of Chemistry, NMKRV College for Women held on March 14-15, 2017.
16. Attended Faculty Development Programme on Industry-Academia Interaction in Research and Developments: Opportunities and Challenges (IAIRD -2017), held at Department of Chemistry, Ramaiah Institute of Technology, Bangalore-560054, on 10-01-2017.
17. Attended Faculty Development Programme on “Advanced Materials Characterization Technology”, under TEQIP (Phase – II), held at Department of Chemistry, Ramaiah Institute of Technology, Bangalore-560054, on 27-29, July, 2016.
18. Sheshandrakumar K N, Srividya J, Lokesh B, Dr.Umesha K and Dr.Basavarajaiah S. M*, entitled with “Design, Synthesis and Evaluation of Biological Activity of Novel 2-Chloro-3-

formylquinoline Derivatives”, Presented and participated UGC sponsored National Seminar on “Recent trends in Chemistry” at Jyothinivas College, Bangalore on 24-02-16.

19. Narayanaswamy B. J, Manohar V, Rashmi K, Dr.Umesha K and Dr.Basavarajaiah S. M*, entitled with “Synthesis and Evaluation of Biological Activity of Novel Quinolone Derivatives”, Presented and participated UGC sponsored National Seminar on “Recent trends in Chemistry” at Jyothinivas College, Bangalore on 24-02-16.
20. Lokesh B, Rajkumar V, Chandrakantha K N, Mamatha R and Basavarajaiah S M, entitled with “Design, Synthesis and Antimicrobial Activities of Novel Isoniazid Derivatives” as participated and presented paper in the 9th Annual KSTA conference on Science, Technology and Innovations in the 21st Century, held at Christ University, on 20-21, December 2016.
21. Sudharshana N, Vinaya S, Pavithra K, Umesha K and S M Basavarajaiah, entitled with “Synthesis and Antimicrobial Activities of Novel 2-Substituted indole-3-carbaldehyde Derivatives” as participated and presented paper in the 9th Annual KSTA conference on Science, Technology and Innovations in the 21st Century, held at Christ University, on 20- 21, December 2016.
22. Sindhu K S, Sowmyashree G S, Sowmya R and S. M. Basavarajaiah* Design, Synthesis and Evaluation of Biological Activity of Novel Indole Derivatives, Presented paper in National Conference on “Recent Advances in Applied Chemistry” (RAAC-2015) on 17th Dec. 2015.
23. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy* Presented paper entitled with National Conference on Recent Trends in Bioorganic Chemistry and Their Application to Society (RTBAS-2014) at Sarada Vilas College Sarada Vilas Road, Mysore -570004. Karnataka, on 26-27, Sep. 2014 (**Best Poster Award Paper**).
24. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, “A Simple, Convinent synthesis of 3-(5-Chloro-3-phenyl-1H-indole-2yl)-3, 4-dihydro-4-phenacyl-2H-1,3-benzoxazin-2- ones”, as participated and presented paper in the 45th Annual Convention of Chemist 2008, held at Karnataka university, Dharwad, during Nov 23-27, (2008).
25. S. M. Basavarajaiah, Basavaraj Hiremath, and B. H. M. Mruthyunjayaswamy, “Synthesis and Antimicrobial Activity of Indole derivatives” paper has been presentation at 26th Annual Conference on Indian Council of Chemists, held at Dr. H.S Gour University, Sagar during Feb. 25-27, (2008).
26. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy, “Synthesis and Biological Activity of 5-Substituted-N’-[(1E)-(2-hydroxyquinolin-3-yl)methylene]-3-phenyl-1H-indole-2- carbonylhydrazide derivatives” paper has been presentation at International Conference On Drug Discover and Nanotechnology held at Yeshwant Mahavidyalaya, Nanded (Maharashtra) during Jan, 27-28, (2008).
27. S. M. Basavarajaiah, Basavaraj Hiremath, Fazlur Rahaman and B. H. M. Mruthyunjayaswamy, Participated and presented a paper entitled “Synthesis of Indole-2- carboxyhydrazide derivatives and their antimicrobial activities” (PP-27) held at Kuvempu University, Shimoga, (Karnataka) during March 23-24, (2007).
28. Basavaraj Hiremath, Fazlur Rahaman, S. M. Basavarajaiah. and B. H. M. Mruthyunjayaswamy, Participated and presented a paper entitled “Spectrophotometric determination of phenolic β -lactam antibiotic in pure forms and in their pharmaceutical formulations” (PP-27) held at Kuvempu University, Shimoga, Karnataka during March 23- 24, (2007).
29. Fazlur Rahaman, Basavaraj Hiremath, S. M. Basavarajaiah, Razak Gafoor Sab, Adheer Kumar and B. H. M. Mruthyunjayaswamy. Participated and presented a paper entitled “Synthesis and Antimicrobial Activity of Schiff Base Complexes of Cu(II), Ni(II), Co(II) and Zn(II) Derived From 5-Chloro-3-Methyl-N’-[(1E)-1-(2-Oxo-2H-Chromen-3-yl)ethylidene]- 1H-indole-2-Carbonylhydrazide” (PP-26) held at Kuvempu University, Shimoga, Karnataka during March 23-24, (2007).
30. Participated in the “National Conference on Advances in Materials Science (AMS-07)” held at Gulbarga University, Gulbarga during Jan. 27-28, (2007).

31. Participated in the “International Seminar on Emerging Trends in Advanced Drug Delivery System” held at Luqman College of Pharmacy, Gulbarga, during Jan. 20-21, (2007).
32. S. M. Basavarajaiah, Basavaraj Hiremath, M. G. Purohit and B. H. M. Mruthyunjayaswamy, “Biological activities of Bark of Syzgium Cumini Linn”. A paper presented at National Conference on Medicinal and Aromatic Plants (PP-15), held at Department of Botany, Gulbarga University, Gulbarga. Dec.10-12, (2007).
33. S. M. Basavarajaiah, Fazlur Rahaman, Adheer Kumar and B. H. M. Mruthyunjayaswamy. Participated and presented a paper entitled “Synthesis of novel thiazole semicarbazide derivatives and pharmacological activities” (PP-112) in the 2nd International Conference on Heterocyclic Chemistry-200 held at University of Rajasthan, JAIPUR, during December 16- 19, (2006).
34. Basavarajaiah. S. M, Fazlur Rahaman, N Adheer Kumar and B. H. M. Mruthyunjayaswamy, Participated and presented a paper entitled “Synthesis of novel thiazole semicarbazide derivatives and antimicrobial activities” (PP-52) in the National Conference in Chemistry held at central college, Bangalore-01, during Sept 27-29, (2006).
35. Fazlur Rahaman, S. M. Basavarajaiah, Razak Ustad Sab, N Adheer Kumar and B. H. M. Mruthyunjayaswamy, Participated and presented a paper entitled “Synthetic, Spectral, X-ray Diffraction and thermal studies of some transition metal complexes derived from 2-hydroxy5-methyl benzaldehyde{[(4-phenyl-1,3 thiazol-2-yl) amino] methyl} hydrozone” (PP-51) in the National Conference in Chemistry held at central college, Bangalore-01, during Sept 27- 29, (2006).
36. Participated in the “Comprehensive Orientation Programme on Pharma Industry” held at RMES College of Pharmacy, Gulbarga, Karnataka during 28th Feb. to 2nd March (2006).
37. B. H. M. Mruthyunjayaswamy and S. M. Basavarajaiah, Participated and presented a paper entitled “Synthesis of Novel Thiazole Semicarbazide Derivatives and Anti-microbial activities” in the “International Symposium on Advances in Organic Chemistry” (PP-96) INSOC-2006 held at Mahatma Gandhi University, Kottayam, Kerala, during Jan 9-12, (2006).
38. Participated in the National Conference on “Current Research Trends and Developments in Heterocyclic Chemistry” held at Department of Chemistry, P.G. College of Science, Saifabad, Osmania university, Hyderabad-500004, during March 17-18, (2006).

Awards

1. S. M. Basavarajaiah and B. H. M. Mruthyunjayaswamy* Presented paper entitled with National Conference on Recent Trends in Bioorganic Chemistry and Their Application to Society (RTBAS-2014) at Sarada Vilas College Sarada Vilas Road, Mysore -570004. Karnataka, on 26-27, Sep. 2014 (**Best Poster Award Paper**).

Academic Activity

Subjects Handled: Organic Chemistry, Medicinal Chemistry, Spectroscopy, Analytical chemistry, Heterocyclic Chemistry, Asymmetric synthesis, Stereochemistry,

Faculty Development Activity/Workshops

SWAYAM COURSES

- ❖ SWAYAM ARPIT ONLINE COURSE CERTIFICATION for successfully completing the ARPIT Course for Career Advancement Scheme (CAS) promotion Online Refresher Course In Chemistry For Higher Education with a "B" Grade in the proctored examination held on 16.02.2020 Sri Guru Tegh Bahadur Khalsa College, University of Delhi.
- ❖ Successfully completed NPTEL Online Certificate course on “ARTIFICIAL INTELLIGENCE IN DRUG DISCOVERY AND DEVELOPMENT” by IIT (B.H.U.), Varanasi on Jul-Oct 2025.

Contact Details

PERSONAL PARTICULARS:

Age: 45 years

Date of Birth: 20th July 1980

Nationality: Indian

Gender: Male

Marital Status: Married