



**BIO-DATA**  
**OF**  
**Dr. T. R. SWAROOP**  
M.Sc., Ph.D.,  
**(TORESHETTAHALLY RAMESH SWAROOP)**  
**Assistant Professor of Chemistry**  
**Head, Department of Chemistry**  
**Sree Siddaganga College of Arts, Science and Commerce for Women**  
**(A College Affiliated to Tumkur University)**  
**Tumkur – 572101, Karnataka, India**

**PLACE AND DATE OF BIRTH**

Toreshettahally, Karnataka, India, Born on 16<sup>th</sup> June, 1987.

**CONTACT INFORMATION**

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S/o Late T. K. Ramesh  
#421, Vidya Nagar  
Maddur-Malavalli road  
Maddur-571 428, Mandya District  
Karnataka, India

**PERSONAL INFORMATION**

Father's Name : Late T. K. Ramesh  
Mother's Name : Saralavathi  
Spouse Name : A. S. Punyashree  
Sex : Male  
Nationality : Indian  
Marital Status : Married  
Languages known : English, Hindi and Kannada  
Mother tongue : Kannada

**EDUCATION/PROFESSIONAL DETAILS**

| Course/Exam /Position                   | Institution/University                                                                                                         | Year             | Remarks                                         |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------|
| B.Sc.<br>(P.C.M)                        | Bharathi College<br>Bharathi nagara, Mandya,<br>Karnataka, India                                                               | 2007             | Distinction<br>8 Gold Medals &<br>7 Cash Prizes |
| M.Sc.<br>(Chemistry)                    | Department of Studies in<br>Chemistry,<br>University of Mysore,<br>Mysuru, Karnataka, India                                    | 2009             | Distinction<br>3 Gold Medals &<br>1 Cash Prize  |
| NET<br>(Chemical<br>Science)            | Council of Scientific and<br>Industrial Research (CSIR)<br>New Delhi, India                                                    | 2009             | Qualified as CSIR-JRF                           |
| Ph.D<br>(Chemistry)                     | Department of Studies in<br>Chemistry,<br>University of Mysore,<br>Mysore, Karnataka, India                                    | 2014             | Awarded in March -<br>2014                      |
| Assistant<br>Professor<br>(Contractual) | Regional Institute of<br>Education, Mysuru, India                                                                              | 2014-2016        | Teaching                                        |
| Assistant<br>Professor<br>(Temporary)   | Department of Studies in<br>Organic Chemistry,<br>University of Mysore,<br>Mysuru, Karnataka, India                            | 2016-2026        | Teaching and Research                           |
| Assistant<br>Professor<br>(Permanent)   | Department of Chemistry,<br>Sree Siddaganga College of<br>Arts, Science and Commerce<br>for Women, Tumkur,<br>Karnataka, India | 2026-<br>present | Teaching and Research                           |
| Postdoctoral                            | Department of Chemistry,<br>Memorial University of                                                                             | 2017             | Awarded by Shastri<br>Indo-Canadian Institute   |

|                       |                                                                                                  |         |                                                 |
|-----------------------|--------------------------------------------------------------------------------------------------|---------|-------------------------------------------------|
|                       | Newfoundland, St. John's,<br>Canada                                                              |         |                                                 |
| Postdoctoral          | School of Chemistry and<br>Pharmaceutical Sciences<br>Guangxi Normal University<br>Guilin, China | 2018    | Fellowship from<br>Guangxi Normal<br>University |
| Visiting<br>Scientist | Yildiz Technical University,<br>Istanbul, Turkey                                                 | 2020    | Funded by<br>TUBITAK                            |
| Visiting<br>Scientist | Utrecht University, Utrecht,<br>The Netherlands                                                  | 2020-21 | Funded by NWO                                   |
| Visiting<br>Scientist | Yildiz Technical University,<br>Istanbul, Turkey                                                 | 2022    | Funded by<br>TUBITAK                            |
| Visiting<br>Scientist | Hokkaido University,<br>Sapporo, Japan                                                           | 2025    | Funded by Sakura<br>Science Program             |

## RESEARCH AREA

Synthesis of heterocyclic compounds, organosulfur chemistry, study of biological activities (anti-cancer, antibacterial, antioxidant, anti-inflammatory, cholinesterase inhibition, etc.), materials chemistry, computational chemistry, green chemistry, isocyanide chemistry, electro-organic synthesis and history of chemical science.

## CITATION INDICES (Google Scholar)

Total citations : 2127

h-index : 31

i10-index : 57

## RESEARCH ACCOMPLISHMENTS

I am actively engaged in the development of new synthetic methods for heterocyclic compounds. I have worked on exploring synthetic applications of  $\beta$ -thioxoketones and  $\beta$ -methylthio- $\alpha,\beta$ -unsaturated ketones for the synthesis of thiophene, isoxazole, thiazole and quinoline derivatives in my doctoral degree. In Canada, I have synthesized new oligothiophenes and polythiophenes, which may be potential candidates for application in solar cells and organic light emitting diodes. Also, I am using density functional theory for calculations in materials science. In China, I have

worked on development of new organic electrochemical reactions. As a visiting scientist in Turkey, I have developed new synthetic methods for  $\beta$ -enaminones and amidines. Later, as a visiting scientist in the Netherlands, I have developed new carbohydrate ligands to treat *Pseudomonas aeruginosa* infections.

In addition, I have used cascade protocol for the synthesis of thiazolidinones, oxazoles and 2-arylquinolines from alcohols in T3P-DMSO media. Furthermore, I have synthesized biologically important molecules and explored them for antimicrobial, anti-inflammatory, anti-oxidant, anticancer, cholinesterase inhibition and platelet aggregation inhibition activities.

So far, I have developed many organosulfur building blocks such as dithioesters, xanthate esters,  $\alpha$ -oxodithioesters,  $\beta$ -oxodithioesters,  $\alpha$ -oxothioamides, methyl *N(N),N'*-di(tri)substituted carbamimidothioates, thioimides, carbamoyldithioesters, *S*-methyl thiuronium salts, alkyl 2-(methylthio)-2-thioacetates, 2,3-bis(methylthio)-1,4-di(het)arylbut-2-ene-1,4-diones,  $\alpha$ -ketothioesters and thioesters, and explored their applications for the synthesis of heterocyclic compounds such as thiazoles, isoxazoles, thiophenes, quinoxalines, benzoxazoles, quinazolinones, 1,3-benzothiazinones, 1,3,4-thiadiazoles, 1,3,4-oxadiazoles, 1,2,4-thiadiazoles, benzimidazoles, pyridazines, tetrazoles, imidazoles, imidazo[1,5-*a*]quinoxalines, tetrazolo[1,5-*a*]quinoxalines, pyrazoles, furans, oxazoles, dihydrothiazoles etc and other compounds like  $\beta$ -enaminones, thioethers, carbamothioates, amidines,  $\alpha$ -oxoamidines, esters and thioesters.

Besides, in the area of green chemistry, I have employed choline chloride–urea ionic liquid for the Knoevenagel condensation, for the synthesis of 4*H*-chromenes and pyranopyrazoles. I have reported solid phase regiospecific synthesis of 1,2- disubstituted 4-quinolones from enaminones. Furthermore, I have also reported the electrochemical sulfonylation of thiols with sulfonyl hydrazides, dehydrogenative coupling of alcohols with hydrogen phosphoryl compounds by employing electricity and reductive coupling of aromatic aldehydes and ketones under electrochemical conditions and, synthesized 1,2,4-thiadiazoles, 1,3,4-thiadiazoles, thiazoles and isothiazoles by electrogenerated iodine.

In the area of isocyanide chemistry, I have used tosylmethyl isocyanide, isocyano acetates and benzyl isocyanides for the synthesis of thiazoles, oxazoles, imidazoles, carbamothioates and imidazo[1,5-*a*]quinoxalines.

Recently, I have been involved in research on history of chemical science, writing reviews, book chapters and textbooks.

#### **MEDALS, PRIZES AND AWARDS**

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1. Prof. D. S. Mahadevappa Gold Medal for **Chemistry** in **B.Sc.**
2. Prof. B. Syed Ali Gold Medal for **Chemistry** in **B.Sc.**
3. Sidlaghatta Rama Rao Gold Medal for **Physics** in **B.Sc.**
4. Sri. L. Prameshchandra Endowment Gold Medal for **Physics** in **B.Sc.**
5. Prof. M. V. Sridhar Gold Medal for **Mathematics** in **B.Sc.**
6. The Principal M Munigaviyappa Gold Medal for **Mathematics** in **B.Sc.**
7. Alamelammal H Ramanuja Iyengar Gold Medal for **B.Sc.**
8. The S. R. Dharma Pravarthan Anbil S Ramaswamy Iyengar Gold Medal for **B.Sc.**
9. M. Gopalaswamy Memorial Prize for **B.Sc.**
10. Prof. K. Sheshadri Iyengar Endowment for **B.Sc.**
11. Prof. H. Sankegowda Cash Prize for **B.Sc.**
12. The Prof. B. S. Mahadeva Rao Prize for **B.Sc.**
13. The Graduate Co-operative Bank Golden Jubilee Memorial Cash Prize for **B.Sc.**
14. Prof. N. Ramaiah Cash Prize for **B.Sc.**
15. Prof. S. V. Keshava Hegde Memorial Prize for **B.Sc.**
16. Sathyabhama Devi Roy Gold Medal for **Organic Chemistry** in **M.Sc.**
17. Prof. C. Anjanamurthy Gold Medal for **Organic Chemistry** in **M.Sc.**
18. Prof. Vrushabendrappa Endowment Gold Medal for **Organic Chemistry** in **M.Sc.**
19. Prof. M. G. Sreenivasa Rao Memorial Cash Prize for **M.Sc.**
20. Young Researcher Award – 2020 from Institute of Scholars, India
21. Best Researcher Award – 2021 from VDGOD Professional Association, India
22. Award for Excellence in Research - 2021 from Hypedge Media and I CAN Foundation, India

#### **MEMBERSHIP IN PROFESSIONAL BODIES/ORGANIZATIONS**

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1. Life Member of Indian Science Congress Association (Membership No. L27085)
2. Life Member of Indian Society of Chemists and Biologists
3. Life member of Institute of Scholars, India

#### **REFRESHER COURSES TAKEN**

1. Online Refresher Course in Chemistry for Higher Education Faculty – 2020

#### **SOCIAL RECOGNITIONS**

1. Pratibha Puraskara – 2007 from Bharathi College, Bharathi nagara, Mandya
2. Pratibha Puraskara – 2007 from District Press Reporters Forum, Mandya
3. Yugadi Puraskara – 2008 from Chaithanya Balaga, Mandya
4. Attended **Republic Day Parade – 2008, New Delhi** as a guest of **Hon’ble Prime Minister of India** for excellent performance in academics (B.Sc.)
5. Republic Day Felicitation – 2012 from National Festival Celebration Committee - Maddur for accomplishments in the field of education

#### **RESEARCH EXPERIENCE**

1. Worked as Research Associate in **Astra Zeneca India, Pvt. Ltd.** from August - 2009 to January - 2010.
2. Worked as a Council of Scientific and Industrial Research – Junior and Senior Research Fellow (CSIR - JRF & SRF) for **Ph. D.** degree in **Chemistry** entitled “**Regiospecific approach for the synthesis of thiophene, isoxazole, thiazole and quinoline derivatives**” under the guidance of **Prof. K. S. Rangappa**, University of Mysore, Mysuru from January - 2010 to July - 2013.
3. Worked as a Shastri Postdoctoral Fellow at the **Memorial University of Newfoundland**, St. John’s, Canada under the guidance of **Prof. Paris E Georghiou** from June to August - 2017.
4. Worked as a Postdoctoral Fellow at the **Guangxi Normal University**, Guilin, China under the guidance of **Prof. Heng-Shan Wang, Prof. Ying-Ming Pan** and **Dr. Hai-Tao Tang** from April to August – 2018.
5. Worked as a Visiting Scientist at the **Yildiz Technical University**, Istanbul, Turkey in collaboration with **Prof. Dr. Lokman Torun** in February – 2020.
6. Worked as a Visiting Scientist at the **Utrecht University**, Utrecht, The Netherlands in collaboration with **Prof. Roland J Pieters** from December – 2020 to January - 2021.

7. Worked as a Visiting Scientist at the **Yildiz Technical University**, Istanbul, Turkey in collaboration with **Prof. Dr. Lokman Torun** from May – 2022 to July - 2022.
8. Visited and trained in **Hokkaido University**, Sapporo, Japan in September, 2025 hosted by **Dr. B. Siddabasavegowda**.

#### TEACHING EXPERIENCE

1. Worked as a guest lecturer for Integrated M.Sc. Chemistry and M.Sc. Organic Chemistry at the Department of Studies in Chemistry, University of Mysore, Mysuru, India for the year 2010 -11 and 2011-12.
2. Worked as a guest lecturer for M.Sc. Chemistry at the Department of Chemistry, Davangere University, Davangere, India for the year 2013-14.
3. Worked as an Assistant Professor of Chemistry at Regional Institute of Education, Mysuru, India for the years 2014-15, 2015-16 and 14-06-2016 to 03-10-2016.
4. Worked as an Assistant Professor of Organic Chemistry at the Department of Studies in Organic Chemistry, University of Mysore, Manasagangotri, Mysuru, India from 04-10-2016 to 18-06-2026.
5. Working as an Assistant Professor of Chemistry at the Department of Chemistry, Sree Siddaganga College of Arts, Science and Commerce for Women, Tumkur, India from 19-06-2026 to date.

#### ADMINISTRATIVE EXPERIENCE

1. Serving as the Head of the Department of Chemistry, Sree Siddaganga College of Arts, Science and Commerce for Women, Tumkur, India from 01-08-2026 to date.

#### CO-CURRICULAR ACTIVITIES

1. Trained in National Cadet Corps (NCC) for two years in Junior Division (JD) and four years in Senior Division (SD) where obtained the cadet rank - **Junior Under Officer (JUO)**.
2. Certificate 'A' passed with 'C' grade.
3. Certificate 'B' passed with 'B' grade.
4. Certificate 'C' passed with 'B' grade.
5. Attended many training camps such as Annual Training Camp (ATC) and Combined Annual Training Camp (CATC).
6. Attended State level **Thal Sainik Camp (TSC)** representing the Mysore group.

## COUNTRIES VISITED

Canada, China, Turkey, The Netherlands, Japan.

## RESEARCH COLLABORATIONS

1. **Prof. K. S. Rangappa**, Distinguished Professor, University of Mysore, Mysuru, India.
2. **Dr. Basappa**, Department of Studies in Organic Chemistry, University of Mysore, Mysuru, India.
3. **Prof. K. Mantelingu**, Department of Studies in Chemistry, University of Mysore, Mysuru, India.
4. **Dr. M. Umashankara**, Department of Chemistry, Karnataka State Open University, Mysuru, India.
5. **Prof. M. Y. Sreenivasa**, Department of Studies in Microbiology, University of Mysore, Mysuru, India.
6. **Prof. Paris E Georghiou**, Department of Chemistry, Memorial University of Newfoundland, St. Johns, Canada.
7. **Prof. Lokman Torun**, Department of Chemistry, Yildiz Technical University, Istanbul, Turkey.

## EDITORIAL BOARD OF JOURNALS/PUBLISHERS

1. Member of *Journal of Modern Polymer Chemistry and Materials*
2. Member of *Journal of Organic Chemistry Synthesis and Process Development*
3. Section Editor to *Current Indian Science* (2021 to present)
4. Member of *American Journal of Heterocyclic Chemistry*
5. Member of *Edwin Group of Journals*
6. Member of *Deep Science Publishing*

## REVIEWER TO JOURNALS

Oriental Journal of Chemistry, Journal of Pharmaceutical Research International, Current Indian Science, Journal of Modern Polymer Chemistry and Materials, European Journal of Medicinal Plants, Journal of Modern Agriculture and Biotechnology, Anti-cancer Agents in Medicinal Chemistry, Asian Journal of Research in Botany, Journal of Basic and Applied Research International, Asian Journal of Education and Social Studies, Asian Journal of Advances in Research, Innovation Discovery, Qeios, Scientific Reports, Journal of Heterocyclic Chemistry,



New Journal of Chemistry, The Journal of Organic Chemistry, Chemistry - An Asian Journal, ACS Nano, Topics in Catalysis, Asian Journal of Organic Chemistry, Discover Applied Sciences, ChemistrySelect, Bioorganic Chemistry, Results in Chemistry, Synthetic Communications.

**SEMINARS, LECTURE SERIES, WORKSHOPS, CONFERENCES, SYMPOSIA, FACULTY DEVELOPMENT PROGRAMMES ATTENDED/ORGANIZED**

1. State level seminar on **Einsteinian Physics – A Retrospect** held on 16<sup>th</sup> & 17<sup>th</sup> December 2005 organized by Department of Physics, JSS College for women, Saraswathipuram, Mysore, Karnataka, India (Participation).
2. National seminar-cum-workshop on **Knowledge Construction in Physics** held on 17<sup>th</sup> – 19<sup>th</sup> February, 2006 at JSS College for women, Saraswathipuram, Mysore, Karnataka, India (Participation).
3. **International Symposium on Challenges in Drug Discovery Programme (ISCDDP-2011)** held on 16<sup>th</sup> – 17<sup>th</sup> February, 2011 at Karnataka State Open University, Manasagangotri, Mysuru, Karnataka, India (Poster presentation and member of organizing committee).
4. National conference on **Recent Trends in Chemistry (RTC-2011)** held on 16<sup>th</sup> & 17<sup>th</sup> September, 2011 at Department of Chemistry, PES college of Science, Arts and Commerce, Mandya, Karnataka, India (Participation).
5. **International Conference on Synthetic and Structural Chemistry (ICSSC-2011)** held on 8<sup>th</sup> – 10<sup>th</sup> December, 2011 at the Department of Chemistry, Mangalore University, Mangalagangotri, Mangalore, Karnataka, India (Participation).
6. National lecture series on **Bio-Prospecting for sustainable development** held on 29<sup>th</sup> & 30<sup>th</sup> November, 2012 at the University of Mysore, Manasagangotri, Mysuru, Karnataka, India (Participation).
7. National conference on **Recent Trends in Bioorganic Chemistry and its Application to Society** held on 26 & 27<sup>th</sup> September, 2014 at Sarada Vilas College, Krishnamurthypuram, Mysuru, Karnataka, India (Participation).
8. Workshop on **Computational Methods in Small Molecule and Bio-Pharmaceutical Drug Discovery** held on 7 – 9<sup>th</sup> May 2015 at University of Mysore, Mysuru, Karnataka, India (Participation).

9. One-day National Seminar on **Chemistry and Chemical Biology** held on 26<sup>th</sup> May, 2015 on the occasion of Prof. K. S. Rangappa's 60<sup>th</sup> birth day at the University of Mysore, Manasagangotri, Mysuru, Karnataka, India (Participation).
10. Plenary talks and Panel discussion on **Genetics Today** held on 10<sup>th</sup> October, 2015 at University of Mysore, Mysuru, Karnataka, India (Participation).
11. **The 103<sup>rd</sup> Indian Science Congress** held on 3 - 7<sup>th</sup> January, 2016 at the University of Mysore, Manasagangotri, Mysuru, Karnataka, India (Participation).
12. **International Conference on Science and Technology: Future Challenges and Solutions** held on 8- 9<sup>th</sup> August, 2016 at University of Mysore, Mysuru, Karnataka, India (Participation).
13. **Summer Organic Chemistry Conference on Everybody's Research (SOCCER)** held on 14<sup>th</sup> and 15<sup>th</sup> August 2017 at the Department of Chemistry, Memorial University of Newfoundland, St. John's, Newfoundland Labrador, Canada (Oral presentation).
14. International Symposium on **Developing Drugs for Tomorrow (Challenges and opportunities)** on 1<sup>st</sup> and 2<sup>nd</sup> January, 2018 at Adichunchanagiri Institute for Molecular Medicine, B G Nagara, Karnataka, India (Poster presentation).
15. **Biodiversity and Bio-prospecting for Sustainable Development – 2018 (BBSD-2018)** held on 23<sup>rd</sup> and 24<sup>th</sup> February, 2018 at Institution of Excellence, University of Mysore, Mysuru, Karnataka, India (Oral Presentation).
16. **International Conference on Nanomaterials and their applications** held on 1<sup>st</sup> and 2<sup>nd</sup> March, 2018 at the University of Mysore, Mysuru, Karnataka, India (Poster presentation).
17. **Recent Innovations in Medicinal and Material Chemistry (RIMMC - 2019)** held on 8<sup>th</sup> and 9<sup>th</sup> March 2019 at the University of Mysore, Mysuru, Karnataka, India (Organizing committee member).
18. **Advanced Materials for Health, Energy and Environment (AMHEE - 2019)** held on 6<sup>th</sup> and 7<sup>th</sup> September, 2019 at the JSS Science and Technology University, Mysuru, Karnataka, India (Oral presentation).
19. National conference on **"Science and Technology: Rural Development"** held on 17<sup>th</sup> and 18<sup>th</sup> October, 2019 at the University of Mysore, Mysuru, Karnataka, India (Oral presentation).

20. National conference on “**Innovations in Chemical Sciences (NCICS - 2020)**” held on 30<sup>th</sup> and 31<sup>st</sup> January, 2020 at the University of Mysore, Mysuru, Karnataka, India (Organizing committee member).
21. Inauguration of **Organic Chemical Society** held on 30<sup>th</sup> March, 2021 at the Department of Studies in Organic Chemistry, University of Mysore, Mysuru, Karnataka, India (Speech title: New gateways for the synthesis of  $\beta$ -enaminones).
22. **A lecture series** held on 22<sup>nd</sup> December, 2021 at Excel Public School, Mysuru, Karnataka, India (Invited talk: Carbon and its compounds, and hydrocarbons).
23. One day national symposium on “**Trends in Drug Discovery**” held on 26<sup>th</sup> February, 2022 at the University of Mysore, Mysuru, Karnataka, India (Organizing committee member).
24. **62<sup>nd</sup> Annual International Conference of Association of Microbiologists of India** held on 21<sup>st</sup> to 23<sup>rd</sup> September 2022 at the University of Mysore, Mysuru, Karnataka, India (Poster presentation).
25. **A lecture series** at Reva University, Bengaluru, Karnataka, India, held on 28<sup>th</sup> March, 2023. (Invited talk: Green synthetic transformations using ionic liquid, solid-phase supports and electricity).
26. Valedictory of **Organic Chemical Society** on the theme “**Research in Chemistry - Now and Then**” held on 19<sup>th</sup> August, 2023 at the Department of Studies in Organic Chemistry, University of Mysore, Mysuru, Karnataka, India (Speech title: Green synthetic transformations using ionic liquid, solid-phase supports and electricity).
27. **Special lecture programme** held on 8<sup>th</sup> November, 2023 at Government Science College, Hassan, Karnataka, India (Invited talk: Green synthetic transformations using ionic liquid, solid-phase supports and electricity).
28. **93<sup>rd</sup> Annual Session of the Academy (NASI)** held on 3<sup>rd</sup> to 5<sup>th</sup> December, 2023 at Baba Atomic Research Centre (BARC), Mumbai, Maharashtra, India (Poster presentation).
29. **International Congress on Green Environmental Catalysis** held on 1<sup>st</sup> to 3<sup>rd</sup> February, 2024 at Osaka, Japan organized by World Chemistry Forum (Invited talk: Green synthetic transformations).
30. One day conference on **Recent Advances in Organic Chemistry and Medicinal Chemistry** held on 2<sup>nd</sup> March, 2024 organized by Organic Chemical Society of the

Department of Studies in Organic Chemistry, University of Mysore, Mysuru, Karnataka, India (Speech title: Synthetic applications of  $\alpha$ -oxodithioesters).

31. A national symposium on **New Vistas in Chemical Sciences** held on 4<sup>th</sup> March, 2024 organized by the Department of Studies and Research in Organic Chemistry, Tumkur University, Tumakuru, Karnataka, India (Invited talk: Synthetic applications of  $\alpha$ -oxodithioesters).
32. **National Level Seminar on Emerging Trends in Chemistry: From Synthesis to Applications** held on 26<sup>th</sup> March, 2024 organized by the Department of Chemistry, Periyar Maniammai Institute of Science and Technology, Thanjavur, Tamil Nadu, India (Invited talk: Synthetic applications of dithioesters).
33. A **guest lecture** held on 28<sup>th</sup> June, 2024 at the JSS College of Pharmacy, Mysuru, Karnataka, India (Invited talk: Green synthetic transformations).
34. **National conference on Recent Advances in Organic Chemistry** held on 6<sup>th</sup> and 7<sup>th</sup> January, 2025 organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchatar Shiksha Abhiyan (Speech title: Synthesis and applications of dithioesters).
35. A workshop on **Innovations in Chemistry and their Applications** held from 24<sup>th</sup> to 30<sup>th</sup> January, 2025 (delivered talk on 27<sup>th</sup> January, 2025) organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchatar Shiksha Abhiyan (Organizing Secretary and Speech title: Green Chemistry).
36. A workshop on **Innovations in Chemistry and their Applications** held from 24<sup>th</sup> to 30<sup>th</sup> January, 2025 (delivered talk on 28<sup>th</sup> January, 2025) organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchatar Shiksha Abhiyan (Organizing Secretary and Speech title: New gateways for the synthesis of  $\beta$ -enamminones).
37. Faculty Development Programme on **Recent Innovations in Energy, Health and Environment** held from 10<sup>th</sup> to 14<sup>th</sup> February, 2025 (delivered talk on 12<sup>th</sup> February, 2025) organized by the Adichunchanagiri School of Natural Sciences, Adichunchanagiri

University, B G Nagara, Karnataka, India (Speech title: Synthesis and applications of dithioesters).

38. A two day international conference on **New Challenges and Innovations in Molecular Medicine (NCIMM-2025)** held on 28<sup>th</sup> and 29<sup>th</sup> May, 2025 organized by the Departments of Studies in Chemistry and Organic Chemistry, University of Mysore, in association with the Chemical Biology Society, India at the University of Mysore, Mysuru, Karnataka, India. (Joint Secretary).
39. **International Conference on Green Technologies, Environment and Drug Discovery (ICGTEDD-2025)** held from 3<sup>rd</sup> to 5<sup>th</sup> September, 2025 organized by the Green Chemistry Network Centre Chapter, Akal University, Talwandi Sabo, Bathinda, Punjab, India (Acted as a judge to evaluate poster presentation and Invited talk: Green synthetic transformations using ionic liquid, solid-phase supports and electricity).
40. **International Symposium 2025 on Sustainability in Agriculture, Food and Health** held on 22<sup>nd</sup> September, 2025 organized by Global Center for Food, Land and Water Resources, Hokkaido University, Sapporo, Japan (Participation).
41. **Special lecture** on 26<sup>th</sup> September, 2025 at the Graduate School of Global Food Resources, Hokkaido University, Sapporo, Japan (Speech title: Synthesis and applications of dithioesters).
42. **National conference on Advances in Chemistry and Chemical Biology** held on 28<sup>th</sup> and 29<sup>th</sup> November, 2025 organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchar Shiksha Abhiyan (Speech title: Green Chemistry in Organic Synthesis).
43. A workshop on **Chemistry Biology Interface** held on 15<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> December, 2025 (delivered talk on 23<sup>rd</sup> December, 2025) organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchar Shiksha Abhiyan (Organizing Secretary and Speech title: Synthesis and applications of dithioesters).
44. A workshop on **Chemistry Biology Interface** held on 15<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> December, 2025 (delivered talk on 23<sup>rd</sup> December, 2025) organized by the Department of Studies in Organic Chemistry, University of Mysore, Karnataka, India in collaboration with

- Malaviya Mission Teachers Training Centre funded by Rashtriya Uchchatar Shiksha Abhiyan (Organizing Secretary and Speech title:  $\beta$ -Enaminones as versatile building blocks).
45. A symposium on **Academia Industry Interaction** held on 23<sup>rd</sup> January 2026 organized by the Internal Quality Assurance Cell (IQAC), Rani Channamma University, Belagavi at KLE Centenary Convention Center, Belagavi, Karnataka, India (Participation).
46. A workshop on **Internationalization of HEIs** held on 24<sup>th</sup> January 2026 organized by the Internal Quality Assurance Cell (IQAC), Rani Channamma University, Belagavi at KLE Centenary Convention Center, Belagavi, Karnataka, India (Participation).
47. International Analytical Science Congress – 2026, **Innovations in Science and Technology for Sustainable Future** held from 22<sup>nd</sup> to 24<sup>th</sup> January, 2026 organized by Indian Society of Analytical Scientists (ISAS), ISAS Belagavi Chapter and Department of Chemistry, Rani Channamma University, Belagavi at KLE Centenary Convention Center, Belagavi, Karnataka, India (Invited Lecture: Synthesis and applications of dithioesters).
48. Industry linked modules on **Analytical, Organic and Medicinal Chemistry in Industries** held on 14<sup>th</sup> February, 2026 organized by the Department of Studies in Organic Chemistry, University of Mysore, Manasagangotri, Mysuru, Karnataka, India in collaboration with University Career Hub funded by Rashtriya Uchchatar Shiksha Abhiyan 2.0 (Organizing Secretary).
49. **Special lecture** on the occasion of National Science Day – 2026 on 28<sup>th</sup> February, 2026 at R L Fine Chem Private Limited, Bengaluru, Karnataka, India. (Invited Lecture: Synthesis and applications of dithioesters).
50. ANRF-PAIR sponsored three days national conference on **BioNexus One Health 2035** organized by the University of Mysore in association with the Manipal Academy of Higher Education held from 9<sup>th</sup> to 11<sup>th</sup> March, 2026 at the University of Mysore, Mysuru, Karnataka, India (Session Chairperson).
51. **Fourth International Conference on Recent Trends in Materials Science & Devices** (ICRTMD 2026) held from 6<sup>th</sup> to 8<sup>th</sup> April, 2026 organized by the JVMGRR College, Charkhi Dadri, Haryana, India. (Invited speech: New aryl-substituted 2,2'-bithiophenes: Synthesis, optoelectronic properties and DFT studies).

## **WEBINARS/VIRTUAL CONFERENCES/ ONLINE FACULTY DEVELOPMENT PROGRAMMES ATTENDED/ORGANIZED**

1. A webinar on “Opportunities & Challenges in Drug Discovery & Development!” organized by Elsevier and Dr. Reddy’s Institute of Life Sciences on 16<sup>th</sup> July, 2020.
2. A webinar on “Understanding Research Ethics and Integrity and Integrity in Academia” organized by Wiley on 21<sup>st</sup> July, 2020.
3. A webinar on “Materials Innovation for Energy and Water” organized by Materials Today on 22<sup>nd</sup> July, 2020.
4. A webinar on “Peer Review: The Backbone of the Publishing Process” organized by Wiley on 30<sup>th</sup> July, 2020.
5. A webinar on “ACS Science Talks: Molecular Engineering: Small Peptides Mimicking Proteins” organized by ACS India on 26<sup>th</sup> August, 2020.
6. A webinar on “Computer Assisted New Chemical Structure Elucidation – from ACD Labs” organized by DOS in Organic Chemistry, University of Mysore, Mysuru on 21<sup>st</sup> September, 2020.
7. A webinar on “Anton Paar Solutions for Microwave Synthesis” organized by DOS in Organic Chemistry, University of Mysore, Mysuru on 29<sup>th</sup> September, 2020.
8. An international webinar on “Trends in Chemical Science: Challenges and Opportunities” organized by St. Philomena’s college, Mysore from 4<sup>th</sup> to 6<sup>th</sup> November, 2020.
9. “One Day National Workshop: ICT Tools for Chemistry Teachers” held on 22<sup>nd</sup> February, 2021.
10. A virtual conference on “Recent advances in chemical science and medicinal chemistry” held on 14<sup>th</sup> March, 2022 at the University of Mysore, Mysuru (Organizing Secretary).
11. Faculty Development Program: Empowering Academic Leaders in the Era of Artificial Intelligence held from 6<sup>th</sup> to 8<sup>th</sup> May, 2026 organized by CCE, IIT Mandi, India.

## **GRANTS RECEIVED**

1. Shastri Conference and Lecture Series Grant by Shastri Indo-Canadian Institute, India, 2022 (₹ 42,500/-)

## **BOOKS WRITTEN**

1. A textbook on ‘Chemistry of Heterocyclic Compounds’. **T. R. Swaroop**, K. M. Mahadevan, K. S. Rangappa, Notion Press, **2020** (ISBN: 9781636064550).

2. A book on 'History of Chemical Science – Biographies of Chemists Volume I'. **T. R. Swaroop**, K. S. Rangappa, Notion Press, **2020** (ISBN: 9781637149676).
3. A textbook on 'Reduction and Oxidation'. **T. R. Swaroop**, K. M. Mahadevan, K. S. Rangappa, Notion Press, **2021** (ISBN: 9781638507734).
4. A book on 'History of Chemical Science – Biographies of Chemists Volume II'. **T. R. Swaroop**, K. S. Rangappa, Notion Press, **2024** (ISBN: 9798894465586).
5. 'A textbook of Practical Organic Chemistry'. **T. R. Swaroop**, K. S. Rangappa, College Book House, **2026** (In progress).

#### BOOKS EDITED

1. Book entitled "*Synthetic Methods and Applications of Heterocyclic Compounds in Medicinal and Organic Chemistry*" published by **Deep Science Publishing** in **2025**. <https://doi.org/10.70593/978-93-7185-164-0> (ISBN: 978-93-7185-560-0).
2. Book entitled "*Recent Advances in the Chemistry of Heterocyclic Compounds: Synthesis and Applications*" published by **Iterative International Publishers** in **2026**. <https://www.doi.org/10.58532/nbennurRACH> (ISBN: 978-93-7020-383-9).
3. Book entitled "Contemporary Organic Chemistry: Synthesis, Mechanisms, and Functional Applications Volume 6" to be published by **Iterative International Publishers** in **2026**. <https://www.doi.org/10.58532/nbennurCOCSV6B2> (ISBN: 978-81-6774-116-5).

#### BOOK CHAPTERS WRITTEN

1. **T. R. Swaroop**,\* K. S. Rangappa. "Green synthetic transformations using ionic liquid, solid-phase supports and electricity". **New Innovations in Chemistry and Biochemistry**. B P International. **2022**, 7, 69-86. (ISBN: 978-93-5547-478-0).
2. **T. R. Swaroop**,\* M. P. Sadashiva, K. S. Rangappa. "Applications of activated methylene isocyanides in the synthesis of azoles". **Recent Progress in Chemical Science Research**. B P International. **2023**, 6, 77-93. (ISBN: 978-81-19054-02-2).
3. **T. R. Swaroop**,\* K. H. Narasimhamurthy, M. Umashankara K. S. Rangappa. "*N*-Heterocycles as cytotoxic agents". **Novel Aspects on Chemistry and Biochemistry**. B P International. **2023**, 6, 135-148. (ISBN: 978-81-19491-86-5).
4. **T. R. Swaroop**,\* M. Umashankara K. S. Rangappa. "Thioimides as versatile building blocks: Synthesis and their applications". **Recent Developments in Chemistry and Biochemistry Research**. B P International. **2024**, 5, 90-108. (ISBN: 978-81-977712-8-6).
5. **T. R. Swaroop**,\* R. N. Suresh, M. Umashankara, K. S. Rangappa. "Synthesis and applications of xanthate esters". **Chemistry and Biochemistry: Research Progress**. B P International. **2025**, 1, 111-122. (ISBN: 978-93-49238-76-3).



6. **T. R. Swaroop**,\* R. N. Suresh, M. Umashankara, K. S. Rangappa. "Synthesis and applications of  $\alpha$ -oxodithioesters". **Chemistry and Biochemistry: Research Progress**. B P International. **2025**, 4, 106-119. (ISBN: 978-93-49473-13-3).
7. R. N. Suresh, K. Mantelingu, **T. R. Swaroop**,\* K. S. Rangappa. "Synthesis and applications of  $\alpha$ -oxothioamides". **Synthetic Methods and Applications of Heterocyclic Compounds in Medicinal and Organic Chemistry**. Deep Science Publishing. **2025**, 11-21. (ISBN: 978-93-7185-164-0).
8. S. Rameshwar, **T. R. Swaroop**, M. Umashankara. "Synthesis of chalcones and their antimicrobial studies". **Recent Advances in the Chemistry of Heterocyclic Compounds: Synthesis and Applications**. Iterative International Publishers. **2026**, 35-39. (ISBN: 978-93-7020-383-9).
9. S. Rameshwar, B. V. Jeevan, **T. R. Swaroop**, M. Umashankara, M. N. Kumara. "Synthesis of glutarimide derivatives and their possible biological applications". **Contemporary Organic Chemistry: Synthesis, Mechanisms and Functional Applications**. Iterative International Publishers. **2026**, 6, 192-198. (ISBN: 978-81-6774-116-5).
10. D. Vishwanath, A. R. Kulkarni, **T. R. Swaroop**, K. S. Rangappa, B. Basappa. "Triazolo-thiadiazoles, isoxazoles, oxadiazoles and coumarin-pyrimidine hybrids in drug discovery". **Contemporary Organic Chemistry: Synthesis, Mechanisms and Functional Applications**. Iterative International Publishers. **2026**, 6, 96-125. (ISBN: 978-81-6774-114-1).

## PATENTS

1. S. M. Anil, **T. R. Swaroop**, A. C. Vinayaka, K. R. Kiran, K. S. Rangappa, M. P. Sadashiva. "Cytotoxic activity of 5-acyl-4-methylthiothiazoles against cutaneous T-Cell lymphoma". Indian Patent **2021** (Patent Application No.: 202141033826; Patent No.: 552579).

## RESEARCH PUBLICATIONS

1. G. S. Lingaraju, **T. R. Swaroop**, A. C. Vinayaka, K. S. Sharath Kumar, M. P. Sadashiva, K. S. Rangappa. "An easy access to 4,5-disubstituted thiazoles via base-induced click reaction of active methylene isocyanides with methyl dithiocarboxylates". **Synthesis** **2012**, 44(9), 1373-1379. (ISSN: 0039-7881; Impact Factor: 2.9).
2. K. S. Sharath Kumar, **T. R. Swaroop**, K. B. Harsha, K. H. Narasimhamurthy, K. S. Rangappa. "T3P<sup>®</sup> - DMSO mediated one pot cascade protocol for the synthesis of 4-thiazolidinones from alcohols". **Tetrahedron Lett.** **2012**, 53(42), 5619-5623. (ISSN: 0040-4039; Impact Factor: 2.4).
3. C. N. Revanna, **T. R. Swaroop**, G. M. Raghavendra, D. G. Bhadregowda, K. Mantelingu, K. S. Rangappa. "Practical and green protocol for the synthesis of substituted 4*H*-chromenes

- using room temperature ionic liquid choline-chloride – urea”. **J. Heterocycl. Chem.** **2012**, 49(4), 851-855. (ISSN: 1943-5193; Impact Factor: 2.4).
4. M. Prabhuswamy, **T. R. Swaroop**, S. Madan Kumar, K. S. Rangappa, N. K. Lokanath. “2-(4-Chlorophenyl)-6-methyl-4-(3-methylphenyl)quinoline”. **Acta Cryst.** **2012**, E68, o3250. (ISSN: 2056-9890; Impact Factor: 0.4).
  5. **T. R. Swaroop**, R. Roopashree, H. Ila, K. S. Rangappa. “Attempted Simmon-Smith reaction on  $\beta$ -alkylthio- $\alpha,\beta$ -unsaturated ketones: a regiospecific synthesis of 2,4-disubstituted thiophenes”. **Tetrahedron Lett.** **2013**, 54(2), 147-150. (ISSN: 0040-4039; Impact Factor: 2.4).
  6. **T. R. Swaroop**, H. Ila, K. S. Rangappa. “Cyclocondensation of  $\beta$ -(aryl/heteroaryl)methylaminoenones with thionyl chloride: a facile general approach for the synthesis of 2,4-bis(het)aryl-5-(het)aroylthiazoles”. **Tetrahedron Lett.** **2013**, 54(39), 5288-5292. (ISSN: 0040-4039; Impact Factor: 2.4).
  7. K. H. Narasimhamurthy, S. Chandrappa, K. S. Sharath Kumar, **T. R. Swaroop**, K. S. Rangappa. “Synthetic utility of propylphosphonic anhydride – DMSO media: an efficient one-pot three component synthesis of 2-aryl quinolines”. **Chem. Lett.** **2013**, 42(9), 1073-1075. (ISSN: 0366-7022; Impact Factor: 1.6).
  8. K. J. Pampa, M. M. M. Abdoh, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. “[4-(4-Methoxyphenyl)-2-(pyridin-3-yl)-1,3-thiazol-5-yl][4-(trifluoromethyl)-phenyl] methanone” **Acta Cryst.** **2013**, E69, o1434. (ISSN: 2056-9890; Impact Factor: 0.4).
  9. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, R. Roopashree, K. S. Sharath Kumar, K. S. Rangappa. “New synthetic benzisoxazole derivatives as antimicrobial, antioxidant and anti-inflammatory agents”. **Eur. J. Chem.** **2013**, 4(4), 402-407. (ISSN: 2153-2257; Impact Factor: 0.8).
  10. C. M. Shivaprasad, S. Madan Kumar, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. “1-(4-Methylphenylsulfonyl)-2- {[3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl] methylsulfonyl}-1*H*-1,3-benzimidazole”. **Acta Cryst.** **2013**, E69, o1846. (ISSN: 2056-9890; Impact Factor: 0.4).
  11. C. M. Shivaprasad, S. Madan Kumar, B. C. Manjunath, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. “Synthesis and structural studies of 2-((3-methyl-4-(2,2,2-trifluoromethoxy)pyridin-2-yl)methylthio)-1-(methylsulfonyl)-1*H*benzo[d]imidazole”. **X-ray Structure Analysis Online.** **2013**, 29, 47-48. (ISSN: 1883-3578; Impact Factor:--)
  12. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, R. Roopashree, K. S. Sharath Kumar, K. S. Rangappa. “Synthesis of new benzisoxazole derivatives and their antimicrobial, antioxidant and anti-inflammatory activities”. **Eur. J. Chem.** **2014**, 5(1), 91-95. (ISSN: 2153-2257; Impact Factor: 0.8).

13. M. Prabhuswamy, S. Madan Kumar, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. "6,7-Dimethoxy-2,4-diphenylquinoline". **Acta Cryst.** **2014**, E70, o165. (ISSN: 2056-9890; Impact Factor: 0.4).
14. B. Raghava, G. Parameshwarappa, A. Acharya, **T. R. Swaroop**, K. S. Rangappa, H. Ila. "Cyclocondensation of hydroxylamine with 1,3-bis(het)arylmonothio-1,3-diketones and 1,3-bis(het)aryl-3-(methylthio)-2-propenones: Synthesis of 3,5-bis(het)arylisoxazoles with complementary regioselectivity". **Eur. J. Org. Chem.** **2014**, 2014(9), 1882-1892. (ISSN: 1099-0690; Impact Factor: 3.1).
15. **T. R. Swaroop**, K. S. Sharath Kumar, M. Palanivelu, S. Chaitanya, K. S. Rangappa. "A catalyst free green protocol for the synthesis of pyranopyrazoles using room temperature ionic liquid choline chloride-urea". **J. Heterocycl. Chem.** **2014**, 51(6), 1866-1870. (ISSN: 1943-5193; Impact Factor: 2.4).
16. R. Roopashree, **T. R. Swaroop**, S. Jagadish, C. D. Mohan, K. S. Rangappa. "Synthesis and cholinesterase inhibition activity of new pyrrolopyrimidine derivatives". **Lett. Drug. Des. Discov.** **2014**, 11(10), 1143-1148. (ISSN: 1875-628X; Impact Factor: 1.2).
17. R. Roopashree, C. D. Mohan, **T. R. Swaroop**, S. Jagadish, K. S. Rangappa. "Synthesis, characterization and in vivo biological evaluation of novel benzimidazoles as potential anticancer agents". **Asian J. Pharm. Clin. Res.** **2014**, 7(5), 309-313. (ISSN: 2455-3891; Impact Factor: 0.5).
18. K. S. Rakesh, S. Jagadish, A. C. Vinayaka, M. Hemshekar, M. Paul, R. M. Thushara, M. Shanmuga Sundaram, **T. R. Swaroop**, C. D. Mohan, S. Basappa, M. P. Sadashiva, K. Kemparaju, K. S. Girish, K. S. Rangappa. "A new ibuprofen derivative inhibits platelet aggregation and ROS mediated platelet apoptosis". **Plos one** **2014**, 9(9), e107182. (ISSN: 1932-6203; Impact Factor: 3.2).
19. K. S. Rakesh, S. Jagadish, **T. R. Swaroop**, N. Ashwini, K. B. Harsha, K. S. Rangappa. "Antioxidant and anti-inflammatory activities of synthetic 2,4-bis(aryl/heteroaryl)-5-acylthiazole derivatives". **Asian J. Biochem. Pharm. Res.** **2014**, 4(3), 316-327. (ISSN: 2231-2560; Impact Factor: 0.5).
20. R. Roopashree, C. D. Mohan, **T. R. Swaroop**, S. Jagadish, Basappa, J. Shankar, K. S. Balaji, K. S. Rangappa. "Novel synthetic bisbenzimidazole that targets angiogenesis in Ehrlich ascites carcinoma bearing mice". **Bioorg. Med. Chem. Lett.** **2015**, 25(12), 2589-2593. (ISSN: 0960-894X; Impact Factor: 2.4).
21. K. S. Rakesh, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, N. Ashwini, K. B. Harsha, Z. Farhan, K. S. Girish, K. S. Rangappa. "Anticancer activity of 2,4-disubstituted thiophene derivatives: Dual inhibitors of Lipoxygenase and Cyclooxygenase". **Med. Chem.** **2015**, 11(5), 462-472. (ISSN: 1875-6638; Impact Factor: 2.3).

22. N. Ashwini, Manoj Garg, C. D. Mohan, J. E. Fuchs, R. Shobith, S. Anusha, **T. R. Swaroop**, K. S. Rakesh, K. Deepika, Vikas Madan, Andreas Bender, H. Phillip Koeffler, Basappa, K. S. Rangappa. "Synthesis of 1,2-benzisoxazole tethered 1,2,3-triazoles that exhibit anticancer activity in acute myeloid leukemia cell lines by inhibiting histone deacetylases and inducing p21 and tubulin acetylation". **Bioorg. Med. Chem.** **2015**, 23(18), 6157-6165. (ISSN: 0968-0896; Impact Factor: 2.8).
23. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, R. Roopashree, C. D. Mohan, K. S. Rakesh, B. Raghava, K. S. Rangappa. "Synthesis, antibacterial, antioxidant and anti-inflammatory activities of new benzimidazole derivatives". **Asian J. Biochem. Pharm. Res.** **2015**, 5(4), 71-81. (ISSN: 2231-2560; Impact Factor: 0.5).
24. K. S. Rakesh, S. Jagadish, K. S. Balaji, F. Zameer, **T. R. Swaroop**, C. D. Mohan, S. Jayarama, K. S. Rangappa. "3,5-Disubstituted isoxazole derivatives: Potential inhibitors of inflammation and cancer". **Inflammation** **2016**, 39(1), 269-280. (ISSN: 1573-2576; Impact Factor: 2.6).
25. A. C. Vinayaka, **T. R. Swaroop**, C. Prasanna Kumara, K. S. Rangappa, M. P. Sadashiva. "Transition-metal-free solid phase synthesis of 1,2-disubstituted 4-quinolones *via* regiospecific synthesis of enaminones". **RSC Adv.** **2016**, 6(14), 11528-11535. (ISSN: 2046-2069; Impact Factor: 4.1).
26. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, R. Roopashree, C. D. Mohan, K. S. Rakesh, B. Raghava, K. S. Rangappa. "Synthesis, antibacterial, antioxidant and anti-inflammatory studies of benzimidazoles". **Eur. J. Biomed. Pharm. Sci.** **2016**, 3(3), 190-197. (ISSN: 2349-8870; Impact Factor: 3.9).
27. K. S. Vinay Kumar, **T. R. Swaroop**, N. Rajeev, A. C. Vinayaka, G. S. Lingaraju, K. S. Rangappa, M. P. Sadashiva. "An one pot tandem approach for the synthesis of 5-(het)aryl oxazoles from substituted (het)aryl methyl alcohols and benzyl bromides". **Synlett** **2016**, 27(9), 1363-1366. (ISSN: 1437-2096; Impact Factor: 2.3).
28. S. D. Preethi, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, S. Lokesh, K. S. Rangappa. "Pro-apoptotic activity of novel 4-anilinoquinazoline derivatives mediated by up-regulation of bax and activation of poly(ADP)ribose phosphatase in ehrlich ascites carcinoma cells". **Asian J. Chem.** **2017**, 29(4), 896-904. (ISSN: 0975-427X; Impact Factor: 0.35).
29. S. D. Preethi, H. K. Vivek, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, S. Lokesh, K. S. Rangappa. "Synthesis, characterization and molecular docking studies of anilinoquinazoline derivatives". **Int. J. Curr. Res.** **2017**, 9, 46509-46517. (ISSN: 0975-833X; Impact factor: --).
30. N. Rajeev, **T. R. Swaroop**, S. M. Anil, Y. K. Bommegowda, K. S. Rangappa, M. P. Sadashiva. "Base induced cyclization of active methylene isocyanides with xanthate esters: an efficient method for the synthesis of 5-alkoxy-4-(tosyl/ethoxycarbonyl)-1,3-thiazoles". **Synlett** **2017**, 28(17), 2281-2284. (ISSN: 1437-2096; Impact Factor: 2.3).

31. S. D. Preethi, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, K. S. Rangappa, S. Lokesh. "Synthesis, characterization of 4-anilino-6,7-dimethoxyquinazoline derivatives as potential anti-angiogenic agents". **Anti-cancer Agents in Med. Chem.** **2017**, 17(14), 1931-1941. (ISSN: 1875-5992; Impact Factor: 2.6).
32. S. M. Anil, A. C. Vinayaka, N. Rajeev, **T. R. Swaroop**, N. Mallesha, K. S. Rangappa, M. P. Sadashiva. "Aqueous chloroplatinic acid: A green, chemoselective and reusable catalyst for the deprotection of acetals, ketals, dioxolanes and oxathiolanes". **ChemistrySelect** **2018**, 3(7), 1999-2003. (ISSN: 2365-6549; Impact Factor: 2.1).
33. K. B. Harsha, S. Rangappa, H. D. Preetham, **T. R. Swaroop**, M. Gilandoust, K. S. Rakesh, K. S. Rangappa. "An easy and efficient method for the synthesis of quinoxalines using recyclable and heterogeneous nanomagnetic-supported acid catalyst under solvent-free condition". **ChemistrySelect** **2018**, 3(18), 5228-5232. (ISSN: 2365-6549; Impact Factor: 2.1).
34. K. B. Harsha, **T. R. Swaroop**, R. Roopashree, S. Jagadish, K. S. Rangappa. "Synthesis and *in vitro* anti-proliferative studies of new 2-(arylmethylthio)-6-ethyl-7*H*-pyrrolo[2,3-*d*]pyrimidin-4-ols". **Chem. Data Collect.** **2018**, 15-16, 223-228. (ISSN: 2405-8300; Impact Factor: 2.2).
35. S. M. Abdel-Wahab, Z. K. Abdelsamii, H. A. Abdel-Fattah, A. S. El-Etrawy, L. N. Dawe, **T. R. Swaroop**, P. E. Georghiou. "Synthesis of 2-aryl- and 2-haloarylbenzimidazole-N1-acetamido conjugates and a preliminary evaluation of their antifungal properties". **ChemistrySelect** **2018**, 3(28), 8106-8110. (ISSN: 2365-6549; Impact Factor: 2.1).
36. **T. R. Swaroop**, Z. A. Tabasi, Y. Zhao, P. E. Georghiou. "New aryl-substituted 2,2'-bithiophenes: Synthesis, optoelectronic properties and DFT studies". **ChemistrySelect** **2018**, 3(33), 9700-9707. (ISSN: 2365-6549; Impact Factor: 2.1).
37. Z-Y. Mo, **T. R. Swaroop**, W. Tong, Y-Z. Zhang, H-T. Tang, Y-M. Pan, H-B. Sun, Z-F. Chen. "Electrochemical sulfonylation of thiols with sulfonyl hydrazides: a metal- and oxidant-free protocol for the synthesis of thiosulfonates". **Green Chem.** **2018**, 20(19), 4428-4432. (ISSN: 1463-9270; Impact Factor: 8.6).
38. N. Rajeev, **T. R. Swaroop**, S. M. Anil, K. R. Kiran, K. S. Rangappa, M. P. Sadashiva. "A sequential one-pot tandem approach for the synthesis of 4-tosyl-5-aryloxazoles from carboxylic acids". **J. Chem. Sci.** **2018**, 130, 150 (1-5). (ISSN: 0973-7103; Impact Factor: 1.3).
39. S. M. Anil, R. Shobith, K. R. Kiran, **T. R. Swaroop**, N. Mallesha, M. P. Sadashiva. "A facile synthesis of 1,4-benzodiazepine-2,5-diones and quinazolinones from aminoacids as anti-tubercular agents". **New J. Chem.** **2019**, 43(1), 182-187. (ISSN: 1144-0546; Impact Factor: 3.3).

40. Q-Y. Li, **T. R. Swaroop**, C. Hou, Z-Q. Wang, Y. M. Pan, H-T. Tang. "Electrochemical dehydrogenative coupling of alcohols with hydrogen phosphoryl compounds: a green protocol for P-O bond formation". **Adv. Synth. Catal.** **2019**, 361(8), 1761-1765. (ISSN: 1615-4169; Impact Factor: 5.1).
41. Dukanya, **T. R. Swaroop**,\* R. Shobith, K. S. Rangappa, Basappa. "Cyclization of activated methylene isocyanides with methyl *N(N),N'*-di(tri)substituted carbamimidothioate: a novel entry for the synthesis of *N*,1-aryl-4-tosyl/ethoxycarbonyl-1*H*-imidazol-5-amines". **SynOpen** **2019**, 3(3), 71-76. (ISSN: 2509-9396; Impact Factor: 2.5).
42. K. R. Kiran, **T. R. Swaroop**,\* K. P. Sukrutha, J. B. Shruthi, S. M. Anil, K. S. Rangappa, M. P. Sadashiva. "Acid catalyzed condensation of *o*-phenylenediammines and *o*-aminophenols with  $\alpha$ -oxodithioesters: a divergent and regioselective synthesis of 2-methylthio-3-aryl-heteroarylquinoxalines and 2-acylbenzoxazoles". **Synthesis** **2019**, 51(22), 4205-4214. (ISSN: 0039-7881; Impact Factor: 2.7).
43. S. M. Anil, N. Rajeev, K. R. Kiran, **T. R. Swaroop**, N. Mallesha, M. P. Sadashiva. "Multi-pharmacophore approach to bio-therapeutics: piperazine derived pseudo-peptidic urea/thiourea derivatives as anti-oxidant agents". **Int. J. Pept. Res. Ther.** **2020**, 26(25), 151–158. (ISSN: 1573-3904; Impact Factor: 1.1).
44. K. H. Narasimhamurthy, Chandra, **T. R. Swaroop**, S. Jagadish, K. S. Rangappa. "Synthesis of piperidine conjugated dihydroquinazolin-4(1*H*)-ones and their antiproliferative activity, molecular docking studies and DFT calculations". **Lett. Drug. Des. Discov.** **2020**, 17(1), 85-93. (ISSN: 1875-628X; Impact Factor: 1.0).
45. N. Rajeev, **T. R. Swaroop**,\* S. M. Anil, K. R. Kiran, Chandra, P. E Georghiou, K. S. Rangappa, M. P. Sadashiva. "Reaction of arylmethyl isocyanides/arylmethylamines with xanthate esters: a facile synthesis of carbamothioates". **Beilstein J. Org. Chem.** **2020**, 16, 159–167. (ISSN: 1860-5397; Impact Factor: 2.6).
46. K. R. Kiran, **T. R. Swaroop**,\* N. Rajeev, S. M. Anil, K. S. Rangappa, M. P. Sadashiva. "Cyclization of active methylene isocyanides with  $\alpha$ -oxodithioesters induced by base: An expedient synthesis of 4-methylthio/ethoxycarbonyl-5-acylthiazoles". **Synthesis** **2020**, 52(9), 1444-1450. (ISSN: 0039-7881; Impact Factor: 2.7).
47. **T. R. Swaroop**,\* Z-Q. Wang, Q. Y. Li, H-S. Wang. "Reductive coupling of aromatic aldehydes and ketones under electrochemical conditions". **J. Electrochem. Soc.** **2020**, 167(4), 046504. (ISSN: 1945-7111; Impact Factor: 4.3).
48. N. Ashwini, G. M. Raghavendra, **T. R. Swaroop**,\* M. Hiremath, M. Mahadeva, K. Mantelingu, K. S. Rangappa. "Highly enantioselective synthetic routes for glucose conjugated 1,2,3-triazoles". **Intl. J. Curr. Adv. Res.** **2020**, 9(3), 21566-21571. (ISSN: 2319-6475; Impact Factor: 6.0).

49. S. M. Anil, M. S. Sudhanva, **T. R. Swaroop**,\* A. C. Vinayaka, N. Rajeeva, K. R. Kiran, R. Shobith, M. P. Sadashiva. "Base induced condensation of malanonitrile with Erlenmeyer Azlactones: An unexpected synthesis of multi-substituted  $\Delta^2$ -pyrrolines and their cytotoxicity assay". **Chem. Biodiversity** **2020**, 17(5), e2000014. (ISSN: 1612-1880; Impact Factor: 1.5).
50. H. Swetha, **T. R. Swaroop**, H. D. Preetham, C. D. Mohan, M. Umashakara, Basappa, I. Vlodavsky, G. Sethi, K. S. Rangappa. "Synthesis, cytotoxic and heparanase inhibition studies of 5-oxo-1-arylpyrrolidine-3-carboxamides of hydrazides and 4-amino-5-aryl-4*H*-1,2,4-triazole-3-thiol". **Curr. Org. Synth.** **2020**, 17(3), 243-250. (ISSN: 1875-6271; Impact Factor: 1.8).
51. K. N. Thanuja, **T. R. Swaroop**, N. Rani, K. S. Rangappa, Basappa, D. Rangappa. "Synthesis, characterization and cytotoxic studies of benzamide derivatives of anacardic acid using human liver cancer cells". **Clin. Oncol. Res.** **2020**, 3(4), 1-8. (ISSN: 2613-4942; Impact Factor: 1.9).
52. K. S. Vinay Kumar, **T. R. Swaroop**,\* K. Ravi Singh, K. S. Rangappa, M. P. Sadashiva. "Sugar-urea-salt eutectic mixture as an efficient green solvent for *N*-alkylation of heterocyclic secondary amines". **Chem. Data Collect.** **2020**, 29, 100536. (ISSN: 2405-8300; Impact Factor: 2.2).
53. Dukanya,<sup>#</sup> **T. R. Swaroop**,\*<sup>#</sup> K. S. Rangappa, Basappa. "Cyclocondensation of sodium azide with methyl *N(N),N'*-di(tri)substituted carbamimidothioate : A new dimension for the synthesis of 1,5-disubstituted tetrazoles and their cytotoxicity on human breast cancer cells". **Curr. Org. Chem.** **2020**, 24(23), 2792-2799. (ISSN: 1875-5348; Impact Factor: 2.2). (<sup>#</sup> Both authors contributed equally).
54. **T. R. Swaroop**,\* K. S. Rangappa, L. Torun. "Claisen type condensation of methyl ketones with carbimidothioates: a new gateway for the synthesis of  $\beta$ -enaminones". **ChemistrySelect** **2021**, 6(2), 177-180. (ISSN: 2365-6549; Impact Factor: 2.1).
55. K. B. Harsha, C. V. Kavitha, **T. R. Swaroop**,\* R. Shobith, K. S. Rangappa. "A green synthesis of 1,4-benzodiazepines using reusable-heterogeneous silica sulfuric acid catalyst under solvent-free conditions and their antileukemic activity". **Asian J. Chem.** **2021**, 33(5), 1006-1012. (ISSN: 0970-7077; Impact Factor: 0.35).
56. **T. R. Swaroop**,\* C. M. Shivaprasad, K. S. Rangappa. "An inquiry-based teaching method for post graduate students induces cognitive thinking among student community". **International J Chem. Educ.** **2021**, 5, 62-65. (ISSN: 2169-3342; Impact Factor: --).
57. K. P. Sukrutha, **T. R. Swaroop**,\* R. Preetham, N. K. Lokanath, K. S. Rangappa, M. P. Sadashiva. "A convenient way for alkylation of amines using xanthate esters". **Synth. Commun.** **2021**, 51(15), 2316-2323. (ISSN: 1532-2432; Impact Factor: 1.8).

58. R. Roopashree, **T. R. Swaroop**,\* C. M. Shivaprasad, S. Jagadish, K. S. Rangappa. "Synthesis and cytotoxic studies of pyrrolopyrimidine derivatives". **Asian J. Chem.** **2021**, 33(8), 1855-1860. (ISSN: 0970-7077; Impact Factor: 0.35).
59. K. R. Kiran,<sup>#</sup> **T. R. Swaroop**,<sup>#,\*</sup> C. Santhosh, K. S. Rangappa, M. P. Sadashiva. "Cyclocondensation of *o*-phenylenediamines with 2-oxo-ethanimidothioates: A novel synthesis of 2-amino-3-(het)aryl-quinoxalines". **ChemistrySelect** **2021**, 6(29), 7262–7265. (ISSN: 2365-6549; Impact Factor: 2.1) (<sup>#</sup> Both authors contributed equally).
60. K. Ravi Singh, C. Santhosh, **T. R. Swaroop**, M. P. Sadashiva. "Regioselective synthesis of 2,5- and 4,5-disubstituted thiazoles *via* cyclization of 2-oxo-2-(amino)ethanedithioates with isocyanides". **Org. Biomol. Chem.** **2022**, 20(29), 5771-5778. (ISSN: 1477-0520; Impact Factor: 3.9).
61. **T. R. Swaroop**,\* C. M. Shivaprasad, R. Preetham, M. P. Sadashiva, K. S. Rangappa. "Developments in the electrochemical synthesis of thia-heterocycles". **Phosphorus Sulfur Silicon Relat. Elem.** **2022**, 197(9), 891-898. (ISSN: 1042-6507; Impact Factor: 1.1).
62. **T. R. Swaroop**,\* M. Umashankara, V. K. Thakur, K. S. Rangappa. "Recent advances in the use of transition metal catalysts in the electro-organic synthesis". **J. Electrochem. Soc.** **2022**, 169(11), 115501. (ISSN: 1945-7111; Impact Factor: 4.3).
63. R. Preetham, M. S. Vijaya Kumar, **T. R. Swaroop**,\* S. Divyashree, K. R. Kiran, M. Y. Sreenivasa, M. P. Sadashiva, K. S. Rangappa. "An efficient route for the synthesis of 1,5-disubstituted tetrazoles and their anti-microbial activity against *Salmonella Paratyphi*". **ChemistrySelect** **2022**, 7(45), e202203079. (ISSN: 2365-6549; Impact Factor: 2.3).
64. K. R. Kiran, **T. R. Swaroop**,\* R. Preetham, P. E. Georghiou, K. S. Rangappa, M. P. Sadashiva. "Acid catalysed cyclization of *o*-aminobenzamide with  $\alpha$ -oxodithioesters: A divergent and regioselective synthesis of quinazolinones and 1,3-benzothiazinones". **ChemistrySelect** **2023**, 8(1), e202203618. (ISSN: 2365-6549; Impact Factor: 2.3).
65. **T. R. Swaroop**,\* C. M. Shivaprasad, K. S. Rangappa. "Art of writing flowchart in organic chemistry practicals induces logical thinking in chemistry students". **J. Chem. Edu. Res. Prac.** **2023**, 7(1), 461-465. (ISSN: 2578-7365; Impact Factor: 1.6).
66. R. N. Suresh, **T. R. Swaroop**, V. Shalini, K. Mantelingu, K. S. Rangappa. "Synthesis of 3,5-bis(acyl)-1,2,4-thiadiazoles *via* iodine mediated oxidative dimerization of  $\alpha$ -oxothioamides". **Tetrahedron Lett.** **2023**, 116, 154302. (ISSN: 0040-4039; Impact Factor: 2.4).
67. R. N. Suresh, **T. R. Swaroop**, Darshini Gowda, K. Mantelingu, K. S. Rangappa. "A panoramic view on synthetic applications of  $\alpha$ -oxothioamides: A highly regioselective synthesis of 2-acyl-4-(het)arylthiazoles and thioethers". **RSC Adv.** **2023**, 13(8), 4910-4916. (ISSN: 2046-2069; Impact Factor: 4.1).



68. R. Preetham, M. S. Vijaya Kumar, **T. R. Swaroop**,\* K. R. Kiran, K. P. Sukrutha, M. P. Sadashiva. "A novel and effective method for the synthesis 1,3,4-oxadiazoles from carbimidothioates and benzohydrazides: an unexpected cyclization". **Synth. Commun.** **2023**, 53(7-8), 568-575. (ISSN: 1532-2432; Impact Factor: 1.9).
69. K. H. Narasimhamurthy, M. N. Joy, A. M. Sajith, S. Santra, G. V. Zyryanov, **T. R. Swaroop**,\* K. S. Rangappa. "Recent advances in organic synthesis using glycerol as a green media". **Lett. Org. Chem.** **2023**, 20(10), 945-957. (ISSN: 1875-6255; Impact Factor: 0.8).
70. C. Santhosh, K. Ravi Singh, K. Sheela, **T. R. Swaroop**, M. P. Sadashiva. "Regioselective synthesis of 2,5-disubstituted-1,3,4-thiadiazoles and 1,3,4-oxadiazoles *via* alkyl 2-(methylthio)-2-thioxoacetates and alkyl 2-amino-2-thioxoacetates". **J. Org. Chem.** **2023**, 88(16), 11486–11496. (ISSN: 1520-6904; Impact Factor: 4.2).
71. N. Ashwini, K. S. Balaji, B. L. Sadashivaiah, **T. R. Swaroop**, S. Jayarama, K. Mantelingu, K. S. Rangappa. "Novel synthetic indazoles abrogates angiogenesis in Erlich ascites tumor bearing mice". **Anti-cancer Agents in Med. Chem.** **2023**, 23(17), 1924-1931. (ISSN: 1871-5206; Impact Factor: 2.8).
72. **T. R. Swaroop**,\* K. H. Narasimhamurthy, M. Umashankara, K. S. Rangappa. "Electrochemical syntheses of heterocyclic compounds using transition metal catalysts". **ChemistrySelect** **2023**, 8(37), e202302453. (ISSN: 2365-6549; Impact Factor: 2.3).
73. M. Shivaraj, R. N. Suresh, **T. R. Swaroop**,\* M. N. Kumara, K. S. Rangappa, K. Mantelingu, A. B. Mamatha Devi, M. P. Manasa, M. Umashankara. "Electrochemical synthesis of 3,5-bis(acyl)-1,2,4-thiadiazoles through *n*-Bu<sub>4</sub>NI-mediated oxidative dimerization of  $\alpha$ -oxothioamides". **Electrochem.** **2023**, 91(12), 122001. (ISSN: 2186-2451; Impact Factor: 2.5).
74. **T. R. Swaroop**,\* C. M. Shivaprasad, K. S. Rangappa. "A past, present and future perspective in chemistry teaching". **J. Chem. Edu. Res. Prac.** **2024**, 8(1), 1-4. (ISSN: 2578-7365; Impact Factor: 1.6).
75. K. H. Narasimhamurthy, Y. R. Girish, **T. R. Swaroop**,\* K. S. Rangappa. "Diversely functionalized pyridine ring-fused heterocycles and their anticancer properties". **Lett. Drug. Des. Discov.** **2024**, 21(11), 1904 – 1912. (ISSN: 1875-628X; Impact Factor: 1.2).
76. **T. R. Swaroop**,\* R. Bakyyev, K. S. Rangappa, L. Torun. "Condensation of amines with *S*-methyl thiouronium salts: another entry for the synthesis of amidines". **Synlett** **2024**, 35(14), 1703-1706. (ISSN: 1437-2096; Impact Factor: 2.3).
77. K. H. Narasimhamurthy,<sup>#</sup> **T. R. Swaroop**,<sup>#</sup> K. S. Rangappa. "A review on progress of thiazole derivatives as potential anti-inflammatory agents". **Eur. J. Med. Chem. Rep.** **2024**, 12, 100225. (ISSN: 2772-4174; Impact Factor: 4.0) (<sup>#</sup> Both authors contributed equally).

78. P. M. Uppar, A. Ravish, Z. Xi, K. K. Harish, A. M. Kumar, L. K. Poonacha, **T. R. Swaroop**, C. Somu, S. L. Gaonkar, M. Madegowda, P. E. Lobie, V. Pandey, Basappa. "Synthesis of tetrahydrocarbazole-tethered triazoles as compounds targeting telomerase in human breast cancer cells". **Catalysts** **2024**, 14(10), 726. (ISSN: 2073-4344; Impact Factor: 3.8).
79. K. Kavya, K. V. Honnabandar, B. T. Sridhar, **T. R. Swaroop**, K. Mantelingu. "Cyclocondensation of *o*-phenelenediamines with  $\alpha$ -ketothioesters: a novel approach for the synthesis of 2-acylbenzimidazoles". **New J. Chem.** **2024**, 48(41), 17998-18003. (ISSN: 1144-0546; Impact Factor: 3.3).
80. R. N. Suresh, C. S. Naveena, **T. R. Swaroop**, K. Mantelingu, K. S. Rangappa. "Synthesis, spectroscopic characterization, crystallographic studies, Hirshfeld surface analysis, DFT, and molecular docking studies of (4-phenylthiazol-2-yl)(thiophen-2-yl)methanone". **J. Mol. Struct.** **2025**, 1323, 140593. (ISSN: 0022-2860; Impact Factor: 4.0).
81. K. Kavya, M. Sahana, **T. R. Swaroop**, B. T. Sridhar, K. Mantelingu. "Cyclocondensation of *o*-aminophenols with  $\alpha$ -ketothioesters in acidic media: a facile synthesis of 2-acylbenzoxazoles". **Tetrahedron Lett.** **2025**, 155, 155418. (ISSN: 0040-4039; Impact Factor: 1.5).
82. **T. R. Swaroop**,\* R. N. Suresh, M. Umashankara, K. S. Rangappa. "A review on use of electrolytes in catalytic/sub-stoichiometric amounts in electro-organic synthesis: a much greener approach". **Asian J. Org. Chem.** **2025**, 14(3), e202400307. (ISSN: 2193-5807; Impact Factor: 2.8).
83. S. M. Rajesh, P. D. Shivaramu, C. S. Bhol, **T. R. Swaroop**, H. D. Preetham, R. N. Suresh, A. Chinnathambi, C. Govindasamy, S. A. Alharbi, V. Shalini, K. S. Ahn, S. Rangappa, K. S. Rangappa. "1,2,3-Triazole tethered spiro[indoline-oxirane] derivatives induce anticancer effects in human hepatoma cells". **Chem. Biol. Drug Des.** **2025**, 105(4), e70091. (ISSN: 1747-0277; Impact Factor: 3.2).
84. K. V. Honnabandar, R. N. Suresh, K. Kavya, **T. R. Swaroop**, K. S. Rangappa, K. Mantelingu. "Acid-catalyzed condensation of primary/secondary amines with 2-oxo-2-aryl-*N*-arylethanethioamides: a highly regioselective synthesis of  $\alpha$ -oxoamidines". **Synlett** **2025**, 36(7), 904-908. (ISSN: 1437-2096; Impact Factor: 1.7).
85. M. Sahana, K. Kavya, K. V. Honnabandar, **T. R. Swaroop**,\* K. Mantelingu. "Base induced cycloaddition of ethyl/methyl isocyanoacetate with 2-(methylsulfonyl)-3-(het)arylquinoxalines: a new pathway to access ethyl/methyl 4-(het)arylimidazo[1,5-*a*]quinoxaline-3-carboxylates". **Tetrahedron** **2025**, 180, 134647. (ISSN: 0040-4020; Impact Factor: 2.1).
86. Kemparajegowda, R. N. Suresh, **T. R. Swaroop**,\* M. Umashankara, K. Mantelingu, K. S. Rangappa. "Electrochemical synthesis of 2,5-disubstituted-1,3,4-thiadiazoles *via* oxidative cyclization of benzothiohydrazides and aldehydes catalyzed by tetra-*n*-butylammonium iodide". **Tetrahedron Lett.** **2025**, 163, 155606. (ISSN: 0040-4039; Impact Factor: 1.5).

87. S. L. Prapullachandra, K. V. Honnabandar, C. V. Kavitha, **T. R. Swaroop**,\* K. Mantelingu. "An unexpected synthesis of 2,3-bis(methylthio)-1,4-di(het)arylbut-2-ene-1,4-diones and their cyclocondensation with hydrazine for the synthesis of 4,5-bis(methylthio)-3,6-di(het)arylpyridazines". **Synthesis** **2025**, 57(10), 1755-1761. (ISSN: 0039-7881; Impact Factor: 2.2).
88. S. M. Rajesh, B. Gowda, S. M. Srinivasa, **T. R. Swaroop**, R. N. Suresh, V. Shalini, H. D. Preetham, R. Shobith, K. S. Rangappa. "Synthesis of spiro[cyclopropane-isatin] derivatives and their therapeutic potential as anticancer agents against colorectal carcinoma". **Results Chem.** **2025**, 16, 102368. (ISSN: 2211-7156; Impact Factor: 4.2).
89. K. Kavya, R. N. Suresh, M. Sahana, **T. R. Swaroop**, K. S. Rangappa, K. Mantelingu. "One-pot reaction among  $\alpha$ -oxodithioesters, cyanamide and  $\alpha$ -bromoketones/esters: A novel synthesis of 2-acyl-5-functionalized-4-aminothiazoles". **J. Sulfur Chem.** **2025**, 46(4), 589-598. (ISSN: 1741-5993; Impact Factor: 2.1).
90. K. V. Honnabandar, S. L. Prapullachandra, **T. R. Swaroop**, K. S. Rangappa, K. Mantelingu. "Synthesis of 2-acylthiazoles by the cyclocondensation of bromoacetaldehyde diethyl acetal with  $\alpha$ -oxothioamides". **Phosphorus Sulfur Silicon Relat. Elem.** **2025**, 200(8), 613-617. (ISSN: 1042-6507; Impact Factor: 1.4).
91. K. V. Honnabandar, S. L. Prapullachandra, N. C. Sandhya, **T. R. Swaroop**, K. Mantelingu. "Cyclization of aminoacetaldehyde dimethyl acetal with  $\alpha$ -oxodithioesters in acidic media: an easy way to access 2-acylthiazoles". **Tetrahedron Lett.** **2025**, 170, 155793. (ISSN: 0040-4039; Impact Factor: 1.5).
92. R. N. Suresh, P. D. Shivaramu, **T. R. Swaroop**, A. Chinnathambi, S. A. Alharbi, C. S. Bhol, K. S. Ahn, K. Mantelingu, K. S. Rangappa. "Synthesis and anti-proliferative studies of 2-acyl-4-(het)arylthiazoles on human hepatoma cells". **Results Chem.** **2025**, 17, 102599. (ISSN: 2211-7156; Impact Factor: 4.2).
93. A. R. Kulkarni, M. Kumaraswamy, T. K. Chaitra, D. M. Gurudatt, K. S. Rangappa, **T. R. Swaroop**,\* B. Basappa. "Sodium hydride induced condensation of methyl ketones with *S*-methyl *O*-phenyl carbonodithioate: A regiospecific synthesis of  $\beta$ -oxodithioesters". **Synth. Commun.** **2025**, 55(19), 1464-1470. (ISSN: 1532-2432; Impact Factor: 1.8).
94. M. Sahana, K. Kavya, N. C. Sandhya, **T. R. Swaroop**, K. Mantelingu. "Cycloaddition of sodium azide with 2-(methylsulfonyl)-3-(het)arylquinoxalines: a novel approach for the synthesis of 4-(het)aryltetrazolo[1,5-*a*]quinoxalines". **Synth. Commun.** **2025**, 55(20), 1552-1560. (ISSN: 1532-2432; Impact Factor: 1.8).
95. R. Shivakumar, B. B. Ravi, C. N. Bhanu Prakash, **T. R. Swaroop**,\* K. S. Rangappa, B. Basappa. "Development of novel pyridine containing acylhydrazones as anticancer agents that target VEGFR-2 in human breast cancer cells". **Lett. Drug Des. Discov.** **2025**, 22(11), 100246. (ISSN: 1570-1808; Impact Factor: 1.6).

96. D. Nagaraju, P. H. Chandraiah, B. B. Ravi, S. M. Parameshwaraiah, M. S. Kempasiddegowda, **T. R. Swaroop**, S. L. Goankar, K. S. Rangappa, B. Basappa. "Development of new piperazine tethered pyridine derivatives as inhibitors of BAD phosphorylation in human breast cancer". **Results Chem.** **2026**, 19, 102907. (ISSN: 2211-7156; Impact Factor: 4.2).
97. R. N. Suresh, **T. R. Swaroop**,\* K. S. Rangappa. "Copper-catalyzed/mediated synthesis of thiophenes and benzothiophenes: an updated review". **Tetrahedron** **2026**, 191, 135089. (ISSN: 0040-4020; Impact Factor: 2.2).
98. K. V. Honnabandar, N. C. Sandhya, C. G. Reddy, **T. R. Swaroop**,\* K. Mantelingu. "Cyclocondensation of bromoacetaldehyde diethyl acetal with 2-amino-*N*-(aryl/alkyl)-2-thioxoacetamides: a novel synthesis of *N*-(aryl/alkyl)thiazole-2-carboxamides". **Synth. Commun.** **2026**, 56(1), 33-43. (ISSN: 1532-2432; Impact Factor: 1.8).
99. R. Shivakumar, N. M. Beeraka, **T. R. Swaroop**, Z. Xi, D. C. Vinay Kumar, S. Hidayathulla, B. Basappa. "Pyrimidine-piperazine hybrids as potential PARP1 inhibitors: dual *in silico* and *in vitro* approaches against breast cancer". **Asian J. Chem.** **2026**, 38(4), 956-962. (ISSN: 0975-427X; Impact Factor: 0.4).
100. K. Kavya, M. Sahana, S. L. Prapullachandra, **T. R. Swaroop**,\* K. Mantelingu. "Carbamoyldithioesters as new suppliers of one-carbon fragment in the benzimidazoles and benzoxazoles synthesis". **Tetrahedron Lett.** **2026**, 180, 156086. (ISSN: 0040-4039; Impact Factor: 1.5).
101. H. S. Monisha Yadav, M. S. Kempasiddegowda, B. B. Ravi, H. D. Preetham, **T. R. Swaroop**, S. Naveen, N. K. Lokanath, K. S. Rangappa, B. Basappa. "Synthesis, characterization, structural analysis and cytotoxic evaluation of novel pyrrolidin-2-one tethered 1,3,4-oxadiazole hybrids". **J. Mol. Struct.** **2026**, 1370, 146401. (ISSN: 0022-2860; Impact Factor: 4.7).
102. S. D. Nayak, Akash, D. S. Apeksha, H. R. Chethan, D. Nagaraju, S. L. Goankar, T. K. Chaitra, D. M. Gurudatt, B. Basappa, **T. R. Swaroop**\*. "Knoevenagel condensation of active methylene compounds with aldehydes in choline chloride – urea ionic liquid". **Russ. J. Org. Chem.** **2026**, 62, 73. (ISSN: 1608-3393; Impact Factor: 0.9).
103. R. N. Suresh, S. M. Rajesh, **T. R. Swaroop**,\* K. S. Rangappa. "Copper-catalyzed/mediated synthesis of thiazole derivatives: a comprehensive review". **ChemistrySelect** **2026**, 11(22), e73680. (ISSN: 2365-6549; Impact Factor: 2.0).
104. **T. R. Swaroop**,\* R. N. Suresh, B. Basappa, K. S. Rangappa. "A review on antifungal activities of benzoxazoles against *Candida Albicans* and SAR studies". **Discov. chem.** **2026**, 3, 375. (ISSN: 3005-1193; Impact Factor: --).

105. Ansar, K. Kavya, M. Sahana, **T. R. Swaroop**,\* K. Mantelingu. "Cyclocondensation of hydrazine with  $\alpha$ -oxodithioesters: a new method for the synthesis of 2,5-bis(acyl)-1,3,4-thiadiazoles". **Synth. Commun.** **2026**, 56(13), 1046-1053. (ISSN: 1532-2432; Impact Factor: 1.8).
106. S. M. Rajesh, A. N. Priyadarshini, D. C. Vinay Kumar, S. M. Srinivasa, **T. R. Swaroop**, R. N. Suresh, S. Rangappa, K. S. Rangappa. "Isatin-based oxime ethers as anticancer agents against human colorectal carcinoma". **Naunyn Schmiedebergs Arch. Pharmacol.** **2026**, Accepted. (ISSN: 1432-1912; Impact Factor: 3.1).
107. M. Sahana, K. Kavya, Ansar, **T. R. Swaroop**,\* K. Mantelingu. "Cyclocondensation of  $\alpha$ -aminoacetonitrile with  $\alpha$ -oxodithioesters: a modified Cook-Heilbron synthesis of thiazoles". **Synlett** **2026**, Accepted. (ISSN: 1437-2096; Impact Factor: 1.4).
108. D. Nagaraju, M. S. Kempasiddegowda, M. Kumaraswamy, B. B. Ravi, H. S. Monisha Yadav, **T. R. Swaroop**, S. L. Goankar, B. Basappa. "Piperazine-pyrrolidone acyl hydrazide hybrids as new anticancer agents against breast cancer". **Asian J. Chem.** **2026**, Accepted. (ISSN: 0975-427X; Impact Factor: 0.4).
109. A. B. Mamatha Devi, A. R. Kulkarni, **T. R. Swaroop**, B. Basappa, M. Umashankara. "Electrochemical synthesis of 3-(het)aryl-5-methylthioisothiazoles from  $\beta$ -oxodithioesters *via*  $\beta$ -amino- $\alpha,\beta$ -unsaturated dithioesters". **Asian J. Chem.** **2026**, Accepted. (ISSN: 0975-427X; Impact Factor: 0.4).
110. A. B. Mamatha Devi, D. Nagaraju, **T. R. Swaroop**, B. Basappa, M. Umashankara. "Synthesis of 2-acyl-4-methyl-5-acetylthiazoles from acetylacetone and  $\alpha$ -oxothioamides *via* electrochemical iodination cascade". **Russ. J. Org. Chem.** **2026**, Accepted. (ISSN: 1608-3393; Impact Factor: 0.9).

## DECLARATION

The information furnished above is correct to the best of my knowledge and belief.

**T. R. Swaroop**