Dr. SABBASANI RAJASEKHARA REDDY Ph. D
Professor
School of Advanced Sciences, Department of Chemistry
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OBJECTIVE: Application-oriented organic synthesis, involving sustainable catalysis, carbohydrates, and medicinal chemistry, aimed at developing solutions for health care, environmental issues, and energy.

Educational Qualifications and Experience in Other Institutions:

Ph.D., Organic chemistry, Indian Institute of Technology Madras, India, **2004-2010**

Junior Research Fellow, Indian Institute of Technology Guwahati, India, **2003-2004**

M.Sc. Organic Chemistry, Andhra University. India, **2000-2002**

B.Sc. Honors, Acharya Nagarjuna University, India, **1997-2000**

Post Doc Fellow, National Taiwan Normal University, Taiwan-**March 2018 to December 2018**

Visiting Professor, Kaohsiung Medical University (KMU), Taiwan- **November 2025 to December 2025**

Visiting Professor, National Tsing Hua University, Taiwan, **February 2024 to March 2024**.

Visiting Professor, Centre for Research in Biological Chemistry and Molecular Materials (CiQUS), University of Santiago de Compostela, Spain, **May 2024 to June 2024**.

Research Area of interest

- Synthetic organic chemistry, medicinal chemistry, Catalysis (chemical and bio-catalytic), and Asymmetric Synthesis and energy and environmental applications (using carbohydrate-based biomolecules)

Courses Studied in B.Sc., Masters and Ph. D. Degree and After Ph. D:

Course offered by **University of Denmark: Organic Solar Cells - Theory and practice (**2014 as part of Faculty Development Program)

Doctoral: Synthetic methodology in organic synthesis, Medicinal chemistry and drug design, Biocatalysis and enzyme mechanisms, Organo metallic chemistry in organic synthesis, Organic Spectroscopy.

Master of Science (**Organic chemistry)**: Organic reaction mechanism, Organic spectroscopy, Organic synthesis and Natural products & biopolymers

Bachelor of Science: Chemistry, Mathematics, Physics

Other Academic Records and Awards

Professional recognition, awards, fellowships received:

- **Guest Editor for Issue 4, 2025, of Trends in Carbohydrate Research (TCR), https://www.trendscarbo.com/**
- **VIN/2023-24/037(VIN award, VIT, International research fund scheme- Received Rs. 4.2 Lakh)**
- **MOST PDF fellowship from Taiwan GOVT. 2018**
- **Sponsored Project Award 2013 by VIT University**
- **Publication Award Received by VIT University 2013, 2014, 2015, 2016, 2017, 2020,2025**
- **Fast Track DST Project 2011 from DST**
- One of my papers, *Tetrahedron Letters*, **2004**, *45*, 3561-3564 i.e. ‘’**Poly aniline supported Vanadium Catalyst for the oxidation of alcohols’’** was cited in reputed journals in **109** times.
  “Polyaniline supported Vanadium Catalyst for oxidation of alcohols, **currently the developed catalyst is available in Sigma Aldrich company (Product no: 69052)**
- **Awarded the best poster and first prize for the oral presentation during my Ph. D 2008** - Conference on BAAE08 and I have received **25** thousand rupees prize money from Department of Science and Technology (DBT) for the same
- **HTRA (Half Time Research Assistantship) Fellowship**: Awarded by IIT Madras (May 2008-July 2009)
- **Senior Research Fellowship (*SRF*)**–Awarded by Indian Institute Technology Madras (May2006-June 08)
- **Junior Research Fellowship (*JRF*)**–Awarded by IIT Madras (April2004-April 2006)
- ***JRF*** – Awarded by Indian Institute Technology Guwahati, (Aug. 2003 - March 2004)

- Qualified National **Graduate Aptitude Test in Engineering (GATE 2004 and 2003)**

Funded Projects Completed:

1. ''Nature Inspired Sugar Derived Biomimetic Polymers for Capturing and Treating Waste from Urban Water'' [Rs. **45.42** Lakh] (PI-Project Code. SPARC/2019-2020/P1905/SL): **28-07-2023 to 31-12-2025** Ongoing.
2. Naturally Derived Sugar-NHC Hybrid Ligands with Cost Effective and Earth Abundant Transition Metals: Synthesis and Studies on Sustainable Asymmetric Organic Transformations. (PI-ANRF-CRG/2023/008520), **30-01-2024 to 31-12-2026** Ongoing (**30.5 Lakh**)
3. **VIT Project as a PI**: Developing Biomass Derived Porus Materials for Removal of Toxic Chromiun Waste from Industrial Area of Ranipet, Tamil Nadu, VIT seed grant (RGEMS)-SG20230119), **5.0 Lakhs,** 2023-25. Completed.
4. **''Synthesis of C-N bond bearing chiral/achiral organic molecules via selective C-H activation using novel zirconium catalysts'' [Principal Investigator (PI-SR/FT/CS-93/2011): c, 23.75 lakhs Rs. (37045.25 USD)]-01-07-2012 to 30-06-2015**
5. ''**Design and Development of Polymer Based Diagnostic Tools for Bioluminescent Imaging Using Controlled Radical Polymerization Techniques''** [Rs.39.22 Lakh (67071.40 USD)] (Co-PI- DST/SR/S1/OC-55/2012)-Completed. **01-01-2013 to 31-03-2016**
6. **VIT Project as a PI:** Design and synthesis of monosaccharides derived biomolecules for recycling toxic heavy metal e-waste **1.5 Lakhs." Jan 2017-Dec 2017**
7. **VIT Project as a PI:** Development of nature inspired carbohydrate-based separation materials for discrimination of pharmaceutically important enantio and diastereomers **[Chancellors 80th Birthday Grant for Trans-disciplinary Research**]-**2.5 Lakhs-12-12-2018- Dec 2019** –Completed
8. **VIT Project as a PI:** "Design and Synthesis of Monosaccharide Based Chiral N-Heterocyclic Carbene Ligands: Application in Transition Metal Catalyzed Organic Transformations'' **2.5 Lakhs**" June **2019-June 2020**
9. **VIT Project as a PI**: Value Added Products from Sugar Industry waste." **Duration-June 2019-March 2020) – [2.5 Lakhs]**
10. **VIT Project as a PI**: Developing a Nature-Inspired Sugar Based Poly Ionic Liquids as Organocatalysts for the Synthesis of Therapeutically Important Compounds" **2.0 Lakhs,** 01/2016-12/2016
11. **VIT Project as a PI**: Naturally Derived Sugar Based Ionic Liquids for Seed Germination, **5.0 Lakhs,** 2021-23 VIT seed grant RGEMS-SG20210267.

Ph. D Thesis Reviewed (External): 3 (**1** Mumbai University and **2** RTM Nagpur University)

Ph.D. Awarded:

Responsibilities and accomplishments:

S. No	Student Name	Title of the Thesis	Subject	Year of completion
1.	Dr. C.B. Rajashekar Reddy	Studies on selective oxidation of amines and alcohols & bioactivity studies on *N*-chloramines (**Awarded**)	Organic and Medicinal Chemistry	12/08/2015
2.	Dr. Jaya-Chandra	Design, Synthesis of Carbohydrate derived chiral ionic liquids and studies on Applications in Asymmetric Synthesis and Sequestration of Metal Ions (**Awarded**)	Carbohydrate chemistry-Asymmetric Synthesis	26/09/2016
3.	Dr. N. Shivaji	Development of Green and Recyclable Catalytic System for the Applications in Tandem and Oxygenation of C-H Bonds (**Awarded**)	Organic, Catalysis and Medicinal Chemistry	25/09/2017
4.	Dr. B. Muralidhar	Regioselective Cascade Approach for the Synthesis of 6*H*-Benzo[*c*]chromenes, 6*H*-Benzo[c]chromen-6-ones and Chromeno[3,4-*c*]chromen-6-one Analogues (**Awarded**)	Synthetic Organic Chemistry and Catalysis	06/09/2018
5.	Dr. P. Sridhar	Design, synthesis of bioactive, nitrogen rich quinoline and [1,2-b]imidazo pyridazine analogues (**Awarded**)	Synthetic Organic Chemistry and Medicinal Chemistry	16-06-2021
6.	Dr. Pooja	Regioselective Cascade Synthesis of Bioactive Annulated Polyheterocycles Catalyzed by Biomass Derived D-Ribose Based Ionic Liquid (**Awarded**)	Synthetic Organic Chemistry and Medicinal Chemistry	09-05-2024
7.	Dr. G. V. Grace	Construction of a Polyheterocyclic Bioactive 2H-Chromene Library with Distinct Core Skeleton through Site-Selective Synthesis **(Awarded)**	Synthetic Organic Chemistry and Medicinal Chemistry	04-07-2024

Ph. D Students: Completed **7** and Ongoing **6**
M. Sc Students (Completed) -19
M. Sc Students (Ongoing)-4
B. Tech Students (Completed)-5

Research and Teaching Experience

Professor, Vellore Institute of Technology (VIT), Vellore (01.01.2023 to till date)

Post Doctoral Fellow (NTNU) with Prof. Ching-Fa Yao (March 2018 to Dec 2018)

Associate Professor, Vellore Institute of Technology (VIT), Vellore (Sep.2014 to 31.12.2022)

Senior Assistant Professor (VIT Univ. involved in Teaching and Research (April 2010 to August 2014).

Doctoral Research	**:**	IIT Madras, August, 2004–2010 (JRF &SRF) -Title: "Derivatizing Glycerol to Monitor Biodiesel Production and Studies on Selective Oxidation of Alcohols'' (Professor Anju Chadha)
Junior Research Fellow	**:**	IIT Madras, April, 2004-July, 2004) 'Rapid Monitoring of Transeste. and assessing Biodiesel Fuel Quality by Estimation of Glycerol' DST), Prof. Anju Chadha
Junior Research Fellow	:	IIT Guwahati (01.08.2003-30.03.2004) Title: "New Chiral Polymer Catalyst for Asymmetric Catalysis" (DST-GOVT), Prof. T. Punniayamurthy

Details of professional training and research specifying period.

Synthetic Experience:
Experienced in handling air and moisture sensitive reagents, both organic and inorganic compounds using standard schlenk/double line techniques, glove box and crystallization. Separation of the organic compounds using both TLC and column chromatography.

Instruments Handled

- Spectroscopic techniques - UV-Vis Spectro photometer, Spectrofluorometer (JASCO), FTIR (JASCO and Nicolalet 6700)
- GC (Perkin Elmer-USA),
- Bruker 400 MHz NMR and HPLC(JASCO)

Techniques Known: NMR both 1D and 2D (^{1}H, ^{13}C, NMR, ^{13}C DEPT 135, COSY- HSQC, HMBC), FTIR, UV-Vis, Spectrofluorometer, TGA, DSC, GC-MS, Single Crystal, MALDI TOF and Single Crystal X-ray diffraction Method: **Computer Skills**: MS Office: Word, PowerPoint, and Excel. Origin, Chem Draw, SciFinder. Reaxys, Mistrack NMR software

Reviewer for Journal: R. Sc. Advances, Trend in Carbohydrate Chemistry, Indian Journal of Chemistry, Synthetic Communications, Letters in Drug Design & Discovery**,** Chirality, some of Springer and Wiley Journals (ChemistrySelect), Analyst by R.Sc

Research Collaborators (National):
Dr. Sudhindiran, *Ph.D.* Dr. R. Sudhakaran, *Ph.D.* Dr. Vidya: *Ph.D.* VIT University, Vellore, Dr. Sabiah *Ph.D.* (Pondicherry Central University), Dr, K. Rajendran *Ph.D.* (VIT University, Chennai), Dr. K. Jeyakumar (IIT BHU), Dr. AKHILA KUMAR SAHU**,** *Ph.D. (CECRI Chennai) and Professor Dr. D. Karunagaran IIT Madras (Biotechnology, NTNU, Taiwan, KMU Taiwan, Tunghai University, Taiwan.*

Conferences/Workshops/FDPs Organized: 7

1. Two Days Indo-Taiwan Conference on Chemistry for Sustainable Societal Applications **(IT-CCSSA-2026) 29th-30th January 2026.** (210 participants, 23 Speakers [6 foreign speakers, 18 Indian speakers], 43 Poster presentation, 8 Oral presentations)
2. Two Days Indo-Taiwan Symposium on Chemistry for Sustainable Societal Applications **(IT-SCSSA-2024) 16th-17th July 2024.** (180 participants, 15 Speakers [5 foreign speakers, 10 Indian speakers])
3. Organizing Secretary for the event "International Conference on Chemical Sciences and Nanomaterials" (ICCSN-2019) organized by Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (**VIT**), Vellore, Tamil Nadu, India from **7th - 9th March 2019.** (410 participants, 10 foreign speakers, 38 Indian speakers.)
4. Half a Day Workshop on titled "Indo-Taiwan Workshop on Research Opportunities and Collaborations in Chemistry and Life Sciences'' Kaohsiung Medical University (KMU), Taiwan & Vellore Institute of Technology (VIT). India" Organized by the Department of Chemistry, School of Advanced Sciences, VIT, Vellore, India on **18th February 2019**. (14 Speakers [12 foreign Professors and 1 one Indian] and 84 Participants).
5. Half a Day Workshop on titled o*n Organic Synthesis and its Applications for Human Well-being''* on **23.10.2017.** (Convenor).
6. Organized **Faculty Development Program** on ''*Stereo Selective and Stereospecific Reactions In Organic Synthesis and Asymmetric Catalysis''* **10.05.2017.**
7. National Symposium on Chemistry for Engineers-**2016** (No of participants 375- ***Convenor***)-**09-04-2016.**
8. National Science Day- **2016** (**No of participants 670-Chemistry Coordinator**)-*Chemistry Coordinators.*

9. One Day National Seminar on Nanomedicine **2013** (**No of participants 60-Co-convenor**)-30th April 2014.

TEACHING STATEMENT: I intend to spread out my professional teaching in the area of Synthetic organic chemistry, Bioorganic and Medicinal chemistry and enzyme catalysis in organic synthesis. I also have wide experience in teaching for allied subjects like Engineering Chemistry and Environmental Science for B. Tech programs. My primary focus on teaching the fundamentals, by the same time, discussing the current developments and its applications. My main aim is to enhance the research-oriented skills among the students through my teachings. I will strive to cultivate an interactive environment in which students can express themselves freely while learning to employ the past in meaningful ways. As I was part of the CAL (Curriculum Applied Learning) which was introduced recently in VIT during 2015 Fall semester and involved in designing laboratory protocols specifically meant for CAL for B.Tech. Students and it has been widely appreciated across the campus. If the committee agreed I would like to introduce the same.

Subjects Taught (Theory and Lab):

1. Integrated MSc: Stereo chemistry and Organic Spectroscopy (**TCHY210L)**
2. M. Sc – Organic Synthesis and Methodologies (**CHY6019**)
3. M. Sc – Advance Organic Chemistry (**CHY6012**)
4. M. Sc – Organometallics and Industrial Applications (**CHY6009**)
5. M. Sc – Organic Photo Chemistry and Pericyclic Reactions (M. Sc-**CHY-6017**)
6. M. Sc – Bioorganic Medicinal Chemistry (M. Sc-**CHY510**)
7. M. Sc – Bioorganic Chemistry (M. Sc-**CHY6002**)
8. M. Sc – Organic Reaction Mechanism (M. Sc-07MSH412)
9. Organic Chemistry (B. Tech- **CHY-103**)
10. Engineering Chemistry (B. Tech- **CHY-101, CHY1701**)
11. Environmental Studies (B. Tech- **CHY104, CHY1002**)
12. Organic Chemistry (B. Tech- **CHY-103 Lab**)
13. Engineering Chemistry (B. Tech- **CHY-101Lab**, **CHY1001Lab**)
14. Organic Chemistry III Practical's (**CHY6017L**. **M. Sc 3 rd. Semester**)

Personal Details

Name	:	SABBASANI RAJASEKHARA REDDY
Date of Birth	:	30 – 07 – 1979
Fathers Name	:	SABBASANI PEDDA ALLURI REDDY
Sex	:	Male
Nationality	:	Indian
Marital status	:	Married
Languages Known	:	English, Telugu [Tamil and Hindi]
Permanent Residential Address	:	Thurimella (Post), Cumbum (mandal) Prakasam (District), Andhra Pradesh - 523372, INDIA.

Publication list:

61. Jyothylakshmi J. and **S. Rajasekhara Reddy*** Chemoenzymatic Relay Synthesis of Quinolines: Laccase/TEMPO/D-Glucose-Based Ionic Salt/atm O2-Catalyzed Chemoselective Oxidation of 2-Aminobenzyl Alcohols. ***ACS Sustain. Chem. Eng.*** **2026**, Accepted. **https://pubs.acs.org/doi/10.1021/acssuschemeng.5c10401 [IF: 7.3]**
60. Rameshbabu, G. P., **S. Rajasekhara Reddy***. 4-Chloro-2 H-chromene-3-carbaldehyde: a valid scaffold in organic synthesis and future molecules for healthcare and energy. ***Org. Biomol. Chem***., **2026**, https://doi.org/10.1039/D5OB01889G **[IF: 2.8]**
59. Kommoju, A., Ramalingam, S., Boddepalli, **S. Rajsekhara Reddy**, Mukkamala, S. B., Reddy, M. C., Khatravath, M., Naveen, T., & Padala, K. (2025). Iron photocatalysis in dual catalysis: building C–C and C–X bonds. ***Chem. Commun***., **2025**,**61**, 15930-15952 **https://doi.org/10.1039/d5cc04246a. [IF: 4.2]**
58. Krishnaraj, P., & **S. Rajasekhara Reddy***. Sustainable d-glucose-based ibuprofen ionic liquids/salts for anti-inflammatory applications. ***Bioorg. Chem***. **2025,** 165**,** 108956. **https://doi.org/https://doi.org/10.1016/j.bioorg.2025.108956**. **[IF: 4.7]**
57. P, K., Sugumar, L. K., Sathi, B., Lin, C.-C., Wang, S., Tetala, K. K. R., & **S. Rajasekhara Reddy***. Sustainable relay strategy for the synthesis of d-glucose-based poly ionic liquid and its fabrication on carbon electrode for simultaneous detection of chromium (VI) and lead (II) in environmental waters. *Chem. Eng. J*., **2025**, **522**, 167488. https://doi.org/https://doi.org/10.1016/j.cej.2025.167488**[IF: 13.2]**
56. Harshini S., **S. Rajasekhara Reddy*,** Sustainable Stereoselectivity Through Ugi/ Post-Ugi Modifications: Insights from Recent Literature (2019–2025). *Chemistryselect*, (2025), 10(31), e02673. https://doi.org/10.1002/slct.202502673 **[IF:2.0]**
55. Paranimuthu P**., S. Rajasekhara Reddy*,** Sustainable Strategy to Access Fused Chromenoquinoline Analogues via Doebner–Von Miller-Type Reaction and Mechanistic Insights. *Asian J. Org. Chem.* (**2025**) e70106 Doi: **http://dx.doi.org/10.1002/ajoc.70106 [IF: 2.7]**

54. P. Sridhar, H. Bhatt, K. Padala, **S. Rajasekhara Reddy**, M. Alagumuthu, S. Arumugam, C-C, Lin. and S. K. Wang, "SUSTAINABLE synthesis of nitrogen rich pyridazine-triazole scaffolds as efficient tyrosine kinase inhibitors via click reaction'' *Bioorganic Chemistry* **2025**, 161, 108553. https://doi.org/10.1016/j.bioorg.2025.108553 **[IF: 4.7]**
53. P. Edukondalu, P. Kumar Naikawadi, K. Prabhakar, K. Pradeesh, **S. Rajasekhara Reddy**, K. Shiva Kumar, Cu(OAc)2.H2O used as acetoxy source for the selective C(sp2)-H acetoxylation: Synthesis of Acetoxylated Indoles/bisindolyl. *Asian J. Org. Chem.* **2025**, e202400763. https://doi.org/10.1002/ajoc.202400763 **[IF: 2.7]**
52. PK Mantravadi, BS. Kovi, **S. Rajasekhara Reddy**, GP. Namasivayam, K. Kalesh, A. Parthasarathy, Probing and manipulating the gut microbiome with chemistry and chemical tools. *Gut Microbiome* **2025**, 6, e6, 1–21 https://doi:10.1017/gmb.2025.4
51. P. Garg, H. Bhatt, S. Kumar, **S. Rajasekhara Reddy***α-Amylase inhibitory potential of dihydropyrano coumarins: In silico and DFT analysis. *3Biotech* **2025**, 15:38, https://doi.org/10.1007/s13205-024-04194-1 **[IF: 2.9]**
50 Jyothylakshmi J and **S. Rajasekhara Reddy*** Molecular Oxygen Promoted Sustainable Synthesis of Functionalized Quinolines Using Catalytic Glucose Derived Ionic Liquid and Copper. *Organic & Biomolecular Chemistry*, **2024**, **22**, 8472 – 8479. https://doi.org/10.1039/D4OB01354A **[IF: 2.7]**
49. Krishnaraj P, Treesa M. C., Sathi B., C-C. Lin, and **S. Rajasekhara Reddy***, Sustainable Synthesis of D-Glucose Based IL: A Renewable Organo Catalyst for the Efficient Synthesis of Dihydropyrano Coumarins. *Asian J. Org. Chem***. 2024.** 13(12) e202400202 https://doi.org/10.1002/ajoc.202400202 **[IF: 2.7]**
48. Victoria, G. G., Sanjivani Pal, Paranimuthu P., Harshil S. Bhatt, Sanjit Kumar, Lin Chun-Cheng, Sheng-kai Wang and **S. Rajasekhara Reddy*** Pd(II)-Catalyzed Site-Selective Cross-Coupling Reaction: Synthesis of Highly Fluorescent Aryl-Formyl-Chromenes and its Iminoantipyrine Analogues as Selective AChE Inhibitors" *Chem. Biodiversity***, 2024**,21(8) , **e202400719.** https://doi.org/10.1002/cbdv.202400719**. [IF: 2.5]**
47. Victoria, G. G, Harshil B., Paranimuthu P., Sanjivani pal, Sanjit Kumar, C-C. Lin, **S. Rajasekhara Reddy***, Organo Mediated Sustainable Synthesis and In-silico studies of Novel Benzisoxazole-Chromene Acyl Hydrazones as AChE Inhibitors. *ChemistrySelect* **2024**, 9, e202401348 ***https://doi.org/10.1002/slct.202401348*** **[IF: 2.0]**
46. Tseng, H-K. Su, Y-Y. Lai, P-J Lo, S-L Liu, H-C. **S. Rajasekhara Reddy,** L. Chen, and C-C. Lin, Chemoenzymatic Synthesis of GAA-7 Glycan Analogues and Evaluation of Their Neuritogenic Activities. "*ACS Chem. Neurosci.*'' **2024** ,15, 656-670. https://doi.org/10.1021/acschemneuro.3c00732 **[IF: 3.9]**
45. Victoria, G. G., **S. Rajasekhara Reddy***, Synthesis and In Silico Study of Novel Benzisoxazole-Chromene Derivatives as Potent Inhibitors of Acetylcholinesterase : Metal-Free Site-Selective C–N Bond Formation via Aza-Michael Reaction. *Chem. Biodiversity* **2023**, 21, e202300573. https://doi.org/10.1002/cbdv.202300573 **[IF: 2.5]**
44. Garg, P. **S. Rajasekhara Reddy***, Organo-Catalytic Approach for Biscoumarin Synthesis via a Biomass-Derived Sustainable Strategy. *ChemistrySelect* **2023**, 8, e202301634. **https://doi.org/10.1002/slct.202301634 [IF: 2.0]**
43. Paranimuthu P, and S. **Rajasekhara Reddy*** Sustainable Synthesis of N-N Bond Bearing Organic Frameworks by Advanced Heterogeneous Metal Catalysis. *Eur. J. Org. Chem.* **2023**, 26, *e202300430* https://doi.org/10.1002/ejoc.202300430 **[IF: 2.7]**
42. Paranimuthu P, Vijayasree U, Jyothylakshmi J and S. **Rajasekhara Reddy*** Emerging trends in the sustainable synthesis of N–N bond bearing organic scaffolds. *Org. Biomol. Chem.* **2023**, 21, 2632-2652. **[IF: 2.7]** https://doi.org/10.1039/D3OB00300K
41. P Krisnaraj, and **S. Rajasekhara Reddy*** Carbohydrate-based N-heterocyclic Carbene-Metal Complexes: A New Avenue for Sustainable Catalyst in Organic Transformations. *New J. Chem.*, **2023**, 47, 974-991 https://doi.org/10.1039/D2NJ04612A **[IF: 2.5]**
40. Jyothylakshmi J, Deepshikha P, Anutthaman P and **S. Rajasekhara Reddy*** Recent Advances in Molecular Oxygen Assisted Laccase Catalyzed Sustainable Organic Transformations. *Asian J. Org. Chem***. 2022**, 12, e202200564 https://doi.org/10.1002/ajoc.202200564 **[IF: 2.7]**
39. Pooja, G and **S. Rajasekhara Reddy*** Biomass derived sugar ionic liquid as a sustainable organo catalyst: An efficient synthesis of functionalized dihydropyrano coumarins. *Asian J. Org. Chem***. 2022**, 11, e202200322. **https://doi.org/10.1002/ajoc.202200322**, **[IF: 2.7]**
38. P. Garg, R. S. Rawat, H. Bhatt, S. Kumar, **S. Rajasekhara Reddy***, Recent Developments in the Synthesis of N- Heterocyclic Compounds as α-Amylase Inhibitors via In-Vitro and In-Silico Analysis: Future Drugs for Treating Diabetes. *ChemistrySelect* **2022**, *7*, e202201706 **[IF: 2.0]** https://doi.org/10.1002/slct.202201706
37. Kumar Shiva, K. Gugulothu Kishan, **S. Rajasekhara Reddy** and Venkateswarlu Katta, A Critical Review on Recent Advances in Base-Assisted Smiles Rearrangement, *Curr. Org. Chem.* **2022**, 26, 1305-1310. https://dx.doi.org/10.2174/1385272826666220509143140 **[IF: 2.1].**
36. Kumar Shiva, K. Gugulothu Kishan, **S. Rajasekhara Reddy** and Venkateswarlu Katta**,** Current Opinion on Base Influenced Organic Transformations. *Curr. Org. Chem.* 2022, 26, 1235 **[IF: 2.1]** http://dx.doi.org/10.2174/1385272826132210271615 44
35. B. Muralidhar, G. Grace, K S. Kumar. and **S. Rajasekhara Reddy***. Copper-mediated relay strategy using chlorination/oxidation: An effective synthesis of functionalized coumarin derivatives. *Asian J. Org. Chem***. 2022**, 11, e202200044. https://doi.org/10.1002/ajoc.202200044 , [**[IF: 2.7].**
34. **S. Rajasekhara Reddy *et.al.*,** Anti-viral activity of methyl 1-chloro-7-methyl-2-propyl-1h-benzo[d]imidazole-carboxylate against white spot syndrome virus in freshwater crab (Paratelphusa hydrodromous), *Aquac Int.* **2022,** 30, 989-999. https://doi.org/10.1007/s10499-021-00714-5**. [IF: 2.2]**
32. G. Grace and **S. Rajasekhara Reddy*,** A New Outlook in Oxidative Transformations and Coupling Reactions via In-situ Generation of Organic Chloramines. *Appl Organomet Chem* **2022**, 36, e6518. http://doi.org/10.1002/aoc.6518**, [IF: 3.7].**
33. P. Muthukuru, P. Krisnaraj, J. Rayadurgam, **S. Rajasekhara Reddy*** Naturally derived sugar-based ionic liquids: an emerging tool for sustainable organic synthesis and chiral recognition. *New J. Chem.*, **2021**, 45, 200075-90. https://doi.org/10.1039/D1NJ03914H (Review Article), **[IF: 2.5].**
31. RK Sharma, M Singh, K Ghimeray, P Juneja, G Dev, S Pulavarthi, **S. Rajashekara Reddy**, R. S. Akundi Imidazopyridazine Acetylcholinesterase Inhibitors Display Potent Anti-Proliferative Effects in the Human Neuroblastoma Cell-Line, IMR-32. *Molecules* 2**021**, 26, 5319. https://doi.org/10.3390/molecules26175319 **[IF: 4.2].**

30. K Gangulothu, SR Messa, UK Utkoor, S. R Reddy, K S. Kumar. Pd/C and TFA promoted one pot, two–stbaep cascade reaction: An effective synthesis of oxepines. *Asian J. Org. Chem.* **2021,** 10**,** 3045-3049 **https://doi.org/10.1002/ajoc.202100449 [IF: 2.7].**
31. G. Grace and **S. Rajasekhara Reddy***, Recent Advances on Synthesis of Organic Chloramines and Their Insights into Health Care. *New J. Chem.*, **2021**, 45, 8386–8408, (Review Article). **[IF: 2.5].** https://doi.org/10.1039/D1NJ01086G
28. S. I. Sachin., V. B. Kumar, **S. Rajashekara Reddy,** V. Kavala, C-Fa, Yao. Palladium Catalyzed an Intramolecular Annulation/Decyanogenative C-H Bond Alkenylation Synthetic Strategy for Building Functionalized Triphenylene Frameworks. *Org. Lett.*, **2019**, *21* (7), pp 2256–2260. https://pubs.acs.org/doi/10.1021/acs.orglett.9b00532 **[IF: 5.0].**
27. V. Bandi, V. Kavala, A. Konala, C-H. Hsu, B. K. Villuri, **S. Rajashekara Reddy**, L. Lin, C-W. Kuo, C-F. Yao. Synthesis of Polysubstituted Cyclopentene and Cyclopenta[b]carbazole Analogues from Unsymmetrical 4-Arylidene-3,6-diarylhex-2-en-5-ynal and Indole Derivatives via an Iodine Mediated Electrocyclization Reaction. *J. Org. Chem.* **2019**, 84, pp 3036–3044 [I.F:4.198] (**Cover Page Article**). **[IF: 3.6].** https://pubs.acs.org/doi/pdf/10.1021/acs.joc.8b02168
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21. B. Muralidhar and **S. Rajasekhara Reddy*** Zn (II) Chloride Promoted Benzannulation Strategy for One-pot Regioselective Synthesis of 6H-benzo[c]chromenes. *ChemistrySelect.* **2017,** 2, 2539–2543. **[IF: 2.0]**. http://onlinelibrary.wiley.com/doi/10.1002/slct.201700311/full
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Invited Books Chapters: 11

11. **S. Rajasekhara Reddy,*** M. S. N. B. Pravallika, Y. Pavani, S. Bhulakshmi, C-C. Lin, D. Rajagopal, K. Shiva Kumar, and B. Baskar, **Chapter 10** Sustainable contemporary methods forthe construction of oxazole-decoratedheterocycles**.**De Gruyter, **2025**, pp. 315-340. https://doi.org/10.1515/9783111387529-010
10**. S. Rajasekhara Reddy,** Jyothylakshmi J , Ashley S. M. and Ayisha T. A. Z. **Chapter 14**, Sustainable contemporary methods for the construction of cyclopentene-decorated five-membered heterocycles. De Gruyter, **2025**, pp. 441-474. https://doi.org/10.1515/9783111387529-014
09. Jeyaraj Preety, Thulasidaran Purushothaman, Deivanayagam Paradesi,Karthikeyan Sekar, **S. Rajasekhara Reddy,** and Baburaj Baskar, **Chapter 7**, Sustainable synthesis of bioactivefunctionalized five-membered heterocyclesvia flow chemistry. De Gruyter, **2025**, pp. 211-242. https://doi.org/10.1515/9783111387529-007
08. **S. Rajasekhara Reddy,*** Sathi Bhulakshmi, Treesa Mary Chacko, P. Krishnraj, Jyothylakshmi Jayakumar and Pavani Yasam Design, Synthesis, and Applications of Chiral Carbohydrate Ionic Liquids. Page: 19-47 (29) eISBN: 978-981-5305-78-4, **2024**. ISBN: 978-981-5305-79-1. DOI: 10.2174/9789815305784124010005 https://www.benthamscience.com/public/chapter/23690
07. **S. Rajasekhara Reddy*,** Bhulakshmi, Sathi and Pal, Sanjivani. "Chapter 16 Total synthesis of bioactive heterocyclic scaffolds via Pauson Khand reaction". Non-Conventional Synthesis: Bioactive Heterocycles, edited by György Keglevich and Bubun Banerjee, Berlin, Boston: De Gruyter, **2024**, pp. 489-516. eBook, ISBN: 9783110980189, Hardcover ISBN: 9783110992267. https://doi.org/10.1515/9783110980189-016
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05. **S. Rajasekhara Reddy*** and Krishnaraj, P. "Chapter12 Catalytic role of ionic liquids in the synthesis of bioactive O-heterocycles under solvent-free conditions". Solvent-Free Synthesis: Bioactive Heterocycles, edited by Sreekantha B. Jonnalagadda and Bubun Banerjee, Berlin, Boston: De Gruyter, **2024**, pp. 307-330. https://doi.org/10.1515/9783110985467-012
04**. S. Rajasekhara Reddy*** and Pooja, G. " Aqueous-mediated sustainable catalytic methods for the synthesis of bioactive N-heterocycles: Bioactive Heterocycles, edited by Asit K. Chakraborti and Bubun Banerjee, Berlin, Boston: De Gruyter, **2024**, pp. 85-100. https://doi.org/10.1515/9783110985627-003
03. **S. Rajasekhara Reddy*,** Bhulakshmi, S. Chacko, T. M. Pal, S, Samal, S, D, Abhudaya, K, K. Shiva and Venkateswarlu, K. "Chapter 1. Triethylamine-mediated synthesis of bioactive heterocycles". Vol. 2 Organic Synthesis, Natural Products Isolation, Drug Design, Industry and the Environment, edited by Chhanda Mukhopadhyay and Bubun Banerjee, Berlin, Boston: De Gruyter, **2023**, pp. 1-26. eBook, ISBN: 9783111243993, Hardcover ISBN: 9783111243740 https://doi.org/10.1515/9783111243993-001,
02. **S. Rajasekhara Reddy*,** and P. Paranimuthu. Chapter 4 "Synthesis and catalytic activity of light rare earth N-heterocyclic carbene (NHC) complexes". **Editted by** Bubun Banerjee, Basudeb Basu, Rare Earth Elements: Processing, Catalytic Applications and Environmental Impact, **ISBN/ISSN,** 978-3-11-078794-8, Berlin, Boston: De Gruyter, **2023**, pp. 59-76. https://doi.org/10.1515/9783110788082-004
01. S. **Rajasekhara Reddy*** and J. Jyothylakshmi**.** Chapter 4 title" Cu-Catalysed tandem reactions for building poly hetero atom heterocycles-green chemistry tool' Physical Science Reviews: **Green Bond Forming Reactions: Carbon-Carbon and Carbon-Heteroatom**" edited by Rakesh Kumar Sharma and Bubun Banerjee, **ISBN/ISSN/DBID,** 2365-659X, DE GRUYTER, Genthiner Straße 13, 10785 Berlin, Germany, **2022**, Page no: 75-99.

Patents:

1. G. Grace and **S. Rajasekhara Reddy*,** Copper-Catalyzed Allylic C-H Oxidation for Synthesis of 2-(Tert-Butylperoxy)-4-Aryl-2h-Chromene-3-Carbaldehydes. Patent *Appl No: 202641018172.*

Books:

1. https://doi.org/10.1515/9783110797428-004 **S. Rajasekhara Reddy*** and **K. Sivakumar,** (2020)**, Highly chemo selective oxidation of alcohols to carbonyl compounds**. ISSBN-978-6-203-02856-0. LAMBERT Academic Publishing (Germany). https://www.amazon.co.jp/Selective-Oxidation-Alcohols-Carbonyl-Compounds/dp/6203028568

2. S. Rajasekhara Reddy* and C.B. R. Reddy**,** (2016)**, Synthesis of azo and hydrazine derivatives via oxidative coupling.** LAMBERT Academic Publishing (Germany), ISSBN-978-3-330-00345-3. **https://tinyurl.com/8afjymjk** (available in amazon)

Guest Lecutre/Invited Lecture/Oral Presentations (Unin/Insti./National and International Conf. etc.):

S. No	Date	Authors /Title of the Presentation	Institute and country of visit/ National or International	Purpose of visit
104	09-02-2026 11-02-2026	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Health Care and Environment: An Emerging Field in Academia and Industry	Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur, India	Plenary Speaker
103	09-01-2026 10-01-2026	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Catalysis and Health Care	IIT Madras, India	Invited Lecture
102	19-12-2025	**S. Rajasekhara Reddy,** Nature Derived Copper for Sustainable Catalysis: An Emerging Field in Synthesis of Therapeutically Significant Small Molecules	Kaohsiung Medical University, Taiwan	Guest Lecture
101	16-12-2025	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Health Care and Environment: An Emerging Field in Academia and Industry	Department of Chemistry, National Central University, Taiwan	Guest Lecture
100	12-12-2025	**S. Rajasekhara Reddy,** Synthetic Strategies for Building the Sugar Based Ionic Liquids for Metal Free Sustainable Organocatalysis	Kaohsiung Medical University, Taiwan	Guest Lecture
99	10-12-2025	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Health Care & Environment: An Emerging Field in Academia and Industry	National Tsing Hua University, Taiwan	Guest Lecture
98	09-12-2025	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Health Care & Environment: An Emerging Field in Academia and Industry	Department of Chemistry, National Changhua University of Education, Taiwan.	Guest Lecture
97	05-12-2025	**S. Rajasekhara Reddy,** Chemistry of Biomolecules: Introduction, Protection and Deprotection Strategies in Chemical Synthesis and Current Research	Kaohsiung Medical University, Taiwan	Guest Lecture
96	27-11-2025	**S. Rajasekhara Reddy,** Carbohydrates and Copper for Sustainable Health Care & Environment: An Emerging Field in Academia and Industry	National Kaohsiung University of Science and Technology, Taiwan	Guest Lecture
95	25-11-2025	**S. Rajasekhara Reddy,** Recent Advances in Medicinal Organic Chemistry and Applications Towards Medicines: Insights into Emerging Global Research Trends	Kaohsiung Medical University, Taiwan	Guest Lecture
94	19-08-2025	**S. Rajasekhara Reddy**, Carbohydrates and Copper for Sustainable Organic Synthesis: Scope for Higher Education Job Opportunities in the Chemical Field in Both Academia and Industry.	International Conference on Innovation in Science, Humanities,and Mathematics (ICISh 2025) is scheduled to be held on August 19–20, 2025.	Keynote Lecture
93	01-06-2025	**S. Rajasekhara Reddy**, Synthesis and Monitoring of Biodiesel Production by Various Analytical Methods	Jawaharlal Nehru Technological University Hyderabad, Kukatpally, India (Supported by Thermo Fisher Scientific)	Invited Lecture
92	21-02-2025 22-02-2025	**S. Rajasekhara Reddy**, Carbohydrates and Copper for Sustainable Organic Synthesis: Scope for Higher Education Job Opportunities in the Chemical Field in Both Academia and Industry.	Dep. of Chemistry, Central Tribal University of A.P, Vizianagaram-535003: A.P, INDIA- Two-day National Conference on "Green and Sustainable Chemistry" from February 21 to 22, 2025.	Invited Lecture
91	20-12-2024	**S. Rajasekhara Reddy**, Sustainable Synthesis of Medicinally Important Small Molecules Using Nature Abundant Copper Catalysis.	Dept. of chemistry, P. G. Department of Chemistry, Berhampur University, Odisha National Conference.	Invited Lecture
90	19.12.2024	**S. Rajasekhara Reddy**, Sustainable Synthesis of Medicinally Significant Small Molecules Using Nature Abundant Copper and Sugar Based Catalysis.	Dept. of Chemical Sciences Indian Institute of Science Education and Research (IISER) Berhampur Ganjam District, Odisha, 760010,	Guest Lecture
89	18.12.2024	**S. Rajasekhara Reddy**, A Journey from Chemistry to Applications: Job Opportunities in the Chemical Field in Both Academia and Industry	Govt. College Rajahmundry, East Godavari District, AP	Guest Lecture
88	06.12.2024-06.12.2024	**S. Rajasekhara Reddy**, Nature Inspired Sugar Ionic Liquids for Sustainable Catalysis and Societal Applications: Emerging Field for a Sustainable Future	Carbo Conference CARBO XXXVIII on Recent Advances in Glycoscience and Glycotechnology (ICRAGG 2024) December 4-6, 2024, at Gauhati University, Dept. of Bio-eng. and Tech. Guwahati, Assam, India.	Invited Lecture
87	21.09.2024	**S. Rajasekhara Reddy**, Sustainable Strategies for Therapeutically Significant Small Molecules Synthesis:Homogeneous Recycle Catalysis, Nature Abundant Copper and Sugars	Dept. of Chemistry, Chemistry and Catalysis workshop held at VIT, Vellore - 632 014, on 21st September 2024.	Guest Lecture
86	18.06.2024	**S. Rajasekhara Reddy**; ''Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach''	Dept. of Chemistry and Inorganic Chemistry, Universidad de Sevilla, Spain	Guest Lecture
85	21-06-2024	**S. Rajasekhara Reddy**; "Sustainable Strategies for the Therapeutically Significant Small Molecules via Catalytic and Cascade Methods".	Universidad de Oviedo, Spain	Guest Lecture

84	14-06-2024	**S. Rajasekhara Reddy**; "Sustainable Strategies for the Therapeutically Significant Small Molecules via Catalytic and Cascade Methods".	Universidade de Santiago de Compostela, Spain	Guest Lecture
83	27-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Department of Chemistry, National Chung Hsing University, Taiwan.	Guest Lecture
82	22-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Department of Chemistry, National Chiayi University, Taiwan.	Guest Lecture
81	20-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Department of Chemistry, National Tsing Hua University, Taiwan.	Guest Lecture
80	15-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Department of Chemistry, National Sun Yat-sen University, Taiwan/**International**	Guest Lecture
79	14-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Kaohsiung Medical University, Department of Medicinal Chemistry, Taiwan **/International**	Guest Lecture
78	08-03-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	National Chiao Tung University (NCTU), Department of Applied Chemistry, Taiwan//**International**	Guest Lecture
77	26-02-2024	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Therapeutically Significant Small Molecules via Catalytic and Cascade Approach	Tunghai University, Taiwan, Department of Chemistry **/International**	Guest Lecture
76	08-12-2023	**S. Rajasekhara Reddy*** Sustainable Strategies for the Synthesis of Drug-Like Molecule via Regio Selective Cascade Methods	Central University of Rajasthan, NH-8, Bandarsindari, Tehsil Kishangarh, Ajmer, Rajasthan 305817.	Guest Lecture
75	09.11.2023 to 10.11.2023	**S. Rajasekhara Reddy*** Sustainable regio selective cascade methods for the synthesis of drug-like molecule	Green Chemistry Network Centre, Hindu College, University of Delhi, Delhi/**International**	Invited Lecture
74	06-09-2023 08-09-2023	**S. Rajasekhara Reddy*** Recent Developments in Regio-Selective Cascade Reaction: A Sustainable Path for the Synthesis of Various Drug Like Molecules.	Recent Advances on Green and Sustainable Developments, ICRAGSD-2023-Akal University, Bathinda, Talwandi Sabo, Punjab, India/**International**	Plenary Lectures
73	08-09-2023	**S. Rajasekhara Reddy*** Recent Developments in Regio-Selective Cascade Reaction: A Sustainable Path for the Synthesis of Various Drug Like Molecules	Central University of Punjab, Gudda village of Bathinda, Punjab, India	Guest Lecture
72	30-06-2023	**S. Rajasekhara Reddy*** Dawn to Dusk Chemistry of Life: Opportunities for Higher Education, Fellowships, and Employment in Academia and Industry,	Idea college, Kakinada, A. P. **/National**	Guest Invited Lecture and Resource person
71	03-02-2023	**S. Rajasekhara Reddy*** Sustainable Synthetic Methods for the Development of Novel Regio- Selective Cascade Reactions for the Synthesis of Diversity Oriented Drug Like Molecules	Department of Chemistry, NIT Calicut. India.	Invited Guest Lecture
70	01-02-2023 03-02-2023	**S. Rajasekhara Reddy*** **''**Magic of Copper Catalysis in Sustainable Development of Novel Regio- Selective Cascade Reactions for the Synthesis of Diversity Oriented Drug Like Molecules''	Department of Chemistry, Calicut University.	Short Invited Lecture
69	30-12-2022	**S. Rajasekhara Reddy*****''** Chemistry of Science Involved in Day Dawns to Dusk''	Sri Vasavi Matriculation School, Vellore, Tamil Nadu.	Guest Lecture/Resource person
68	30-08-2022	**S. Rajasekhara Reddy*** **''** Sustainable Approaches for the Development of Regio-Selective Cascade Reactions: Synthesis of Diversity Oriented Drug like Molecules"	Department of Chemistry, MNIT Rajasthan. India.	Guest Lecture/Resource person
67	30-08-2022	**S. Rajasekhara Reddy*** **''** Chemistry of Life from Dawn to Dusk: Higher Education, Fellowships, and Job Opportunities in the Chemistry Field in Academia and Industry"	Department of Chemistry, MNIT Rajasthan. India.	Guest Lecture/Resource person
66	02-05-2022	**S. Rajasekhara Reddy*** Chemistry of Life Occurring in Day Dawns to Dusk: Scope for Higher Education, Fellowships and Job Opportunities in Chemistry Field in Academia and Industry	D.S.GOVT. DEGREE & P.G. COLLEGE FOR WOMEN, ONGOLE, PRAKASAM DISTRICT; Andhra Pradesh., India	Guest Lecture/Resource person
65	04-12-2021 to 05-12-2021	**S. Rajasekhara Reddy*** Nature inspired sugar-based ionic molecules: an evolving field for sustainable future	International conference on advances in chemistry and biology of carbohydrates, Forest Research Institute, Dehradun-248006, India CARBO XXXV-2021	Short Invited Lecture
64	03-12-2021	**S. Rajasekhara Reddy*** Chemistry for Science and Engineering applications	Sri Sai Institute of Technology and science, University college code: f7 Rayachoti-516270, YSR district, Andhra Pradesh, India. **/National**	Resource person (work shop-delivered 3-Guest lectures, +2, Diploma and B. Tech students)
63	13-06-2020	**S. Rajasekhara Reddy*** ''Monitoring a biodiesel Production using various analytical methods''	Adikavi Nananaiah University, India. Current Res. Trends, developments in org. syn-13-06-2020 **/National**	Invited Lecture
62	02-03-2020 03-03-2020	**S. Rajasekhara Reddy*** New Frontiers in Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Drug like Molecules	Dept. of Chemistry, Berhampur University, Odisha, 02nd -03rd March 2020, *National Organic Synthesis Conference"* N-COS- 2020	Invited Lecture
61	27-03-2020 28-03-2020	**S. Rajasekhara Reddy*** ''Chemistry of Science Involved in Day Dawn to Dusk''	National Science Day held at IIIT, RK Valley on held on Feb 27-29, AP, India.	Guest Lecture

60	06-02-2020 09-02-2020	M. Priyanka, I. Usha Naga Lakshmi, P. Sushma, A. Srivani, R. Jayachandra and **S. Rajasekhara Reddy*** A Review on Synthesis of Sugar Derived Biomolecules and Its Applications in Asymmetric Synthesis	RSc-CRSI-NSC held at VIT on held on Feb 06-09, VIT, Vellore (National)	Poster Presentation
59	06-02-2020 09-02-2020	Pooja Garg, B.Muralidhar, Gracevictoria Govada, I. Usha Naga Lakshmi, and **S. Rajasekhara Reddy*** An Overview on Regioselective Cascade Approaches for the Synthesis of 6H-Benzochromene, 6H-Benzochrome-6-ones and its Scope	RSc-CRSI-NSC held at VIT on held on Feb 06-09, VIT, Vellore (National)	Poster Presentation
58	06-02-2020 09-02-2020	P. Krishnaraj, M.Priyanka, R. Jayachandra and **S. Rajasekhara Reddy*** Overview on Synthesis of Sugar Based Ionic Liquids for Sustainable Societal Applications	RSc-CRSI-NSC held at VIT on held on Feb 06-09, VIT, Vellore (National)	Poster Presentation
57	24-12-2019 to 24-12-2019	**S. Rajasekhara Reddy*** New Frontiers in Regio-Selective Cascade Reactions: Synthesis of Diversity Oriented Drug like Molecules	Suven Life Sciences. Jeedimetla, Hyderabad-500055. **/National)**	Invited Talk at Industry
56	05-12-2019 to 07-12-2019	**S. Rajasekhara Reddy*** Synthesis of Sugar Based Ionic Liquids for Sustainable Societal Applications	International Carbohydrate Conference (CARBO-XXXIV) on "Emerging Frontiers In Carbohydrate Chemistry and Glycobiology" Department of Chemistry, University of Lucknow, Lucknow December 5-7, 2019	Invited Lecture
55	22-08-2019 to 24-08-2019	**S. Rajasekhara Reddy*** Value Added Applications from Natural Sugars Using Sustainable Synthetic Approaches.	International Conference on Advances in Renewable Energy and Green Technology ICARE-2019 22-24 August 2019**.** VIT, Vellore	Guest Lecture
54	16-03-2019	**S. Rajasekhara Reddy*** Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Drug like Molecules.	Sharda University, School of Sciences, Delhi, India. / **National**	Guest Lecture
53	14-03-2019 to 16-03-2019	**S. Rajasekhara Reddy*** Design and Synthesis of Diversity Oriented Biomolecules for Human Well-Being	South Asian Biotechnology Conference-2019. Faculty Of Life Sciences And Biotechnology South Asian University, Delhi, India. **/International**	Invited Lecture
52	07-03-2019 to 09-03-2019	Sridhar, Manikandan A , Sivakumar A , and **S. Rajasekhara Reddy,** Design and Synthesis of Substituted Nitroimidazo Pyridazine-Triazoles as Protein Tyrosine Kinase Inhibitors: An Approach to Develop Anticancer Drugs	International Conference on Chemical Sciences and Nano Materials. VIT, Vellore, India. **/International**	Poster Presentation
51	07-03-2019 to 09-03-2019	**G. Grace Victoria** and **S. Rajasekhara Reddy** Metal Free Method for the Synthesis of Chromene Substituted Benzisoxazole Derivatives.	International Conference on Chemical Sciences and Nano Materials. VIT, Vellore, India. **/International**	Poster Presentation
50	07-03-2019 to 09-03-2019	**S. Rajasekhara Reddy*** Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Drug like Molecules	International Conference on Chemical Sciences and Nano Materials. VIT, Vellore, India. **/International**	Invited Lecture
49	28-12-2018	**S. Rajasekhara Reddy*** Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Biomolecules	Kaohsiung Medical University, Taiwan **/International**	Guest Lecture
48	28-12-2018	**S. Rajasekhara Reddy*** Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Biomolecules	Tunghai University, Taiwan. **/International**	Guest Lecture
47	22-11-2018 to 24-11-2018	Ching Fa Yao and **S. Rajasekhara Reddy, Development** of Regio-Selective Cascade Reactions for the Synthesis of Diversity Oriented Biomolecules**.**	ISOR-13 (Int. symposium in Organic Synthesis), at Taiwan, National Chiao Tung University (NCTU), //**International**	Poster Presentation
46	26-10-2018 to 29-10-2018	Ching Fa Yao and **S. Rajasekhara Reddy.** Design, Synthesis of Diversity Oriented Biomolecules: Applications in Health Care, Catalysis and Asymmetric Synthesis	ISCOC-15 & ISCIC-12, Taiwan, NTU National Taiwan University. **/International**	Invited Talk
45	01.09.2017	**S. Rajasekhara Reddy*** Design, synthesis of diversity oriented bioactive compounds for human wellbeing.	7th Indo-African Conference on **"Nanotechnology and Organic Chemistry in Pharmaceutical Sector: Issues and Concerns"** in collaboration with APP AP State Branch at D.C.R.M. Pharmacy College, Inkollu, Prakasam Dt., A.P (India)/ **/International**	Invited Lecture
44	12.08.2016 to 14.08.16	**S. Rajasekhara Reddy*** Design, synthesis of diversity oriented bioactive compounds: Study its therapeutic applications for treating various life-threatening diseases	ICNT 2016, MG. Univ. Kottayam, Kerala, India. International Conference/ **/International**	Invited Lecture
43	12.08.2016	**S. Rajasekhara Reddy*** Design, Synthesis and Study of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Study its Therapeutic Applications	CUSAT University, 2016, Department of Applied Chemistry, Kerala, India.	Guest Lecture
42	09.04.2016	**S. Rajasekhara Reddy*** Synthesis and Monitoring of Biodiesel Production by Various Analytical Methods	VIT University, Vellore National Symposium on Chemistry for Engineers. **/National**	Guest Lecture
41	02.02.16	**S. Rajasekhara Reddy*** Synthesis of diversity-oriented bio active N-Cl, N-N and carbonyl compounds via selective and catalytic oxidation approach	ICT Mumbai, India. **/National**	Guest Lecture
40	22-01-16 23-01-16	**S. Rajasekhara Reddy*** Design, Synthesis and Study of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Study its Therapeutic Applications	5th International Convention of Association of Pharmacy Professionals on the Theme, Anna Univ. BIT campus Tiruchinapalle, India. **/National**	Invited Lecture
39	5.01.16	**S. Rajasekhara Reddy*** Design, Synthesis and Study of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Study its Therapeutic Applications	Manonmaniam Sundaranar University, Tirunelveli 627 012, India. **/National**	Guest Lecture

38	5.01.16	**S. Rajasekhara Reddy*** Design, Synthesis and Study of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Study its Therapeutic Applications	International conf. on "**New Advances in Chemistry and Materials" Head** of the Department, Tirunelveli-627007, India. / **International**	Invited Lecture
37	5.01.16	Shivaji Naidi and **S. Rajasekhara Reddy* A Simple, Recyclable Catalytic System for the Synthesis of Bioactive Tetrahydropyrrolo[1,2-a]quinazoline-1,5-dione derivatives**	International conf. on "**New Advances in Chemistry and Materials" Head** of the Department, Tirunelveli-627007, India. / **International**	Poster Presentation
36	5.01.16	R. Jayachandra and **S. Rajasekhara Reddy*** An Efficient D-Xylose Derived Chiral Ionic Liquids for the Discrimination of Enantiomers by NMR	International conf. on "**New Advances in Chemistry and Materials" Head** of the Department, Tirunelveli-627007, India. / **International**	Poster Presentation
35	7.11.15	**S. Rajasekhara Reddy*** Chemistry Involved the Day Dawns to Dusk.	**IICT Hyderbad. India (Special guest lecture for BTOPPERS-IIT students-RSC Organized). /National**	Invited Lecture.
34	5.10.15	**S. Rajasekhara Reddy*** Chemistry-Dialy Life.	SKRC women's college, Rajamundry, Andhra Pradesh. **/National**	Invited Lecture
33	5.10.15 to 6.10.15	**S. Rajasekhara Reddy*** Design, synthesis and study of diversity oriented bioactive compounds for various therapeutic applications.	Adikavi Nananaiah University, India. Current Res. Trends, developments in org. synthesis**/National**	Guest Lecture
32	27.03.15 to 28.03.15	**S. Rajasekhara Reddy*** Synthesis of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Their Inhibition Studies on Various Disease-Causing Targets	NIPER- Hyderabad, India, Innovative Processes for Bulk Drugs (IPBD-2015)**/International**	Invited Talk
31	27.03.15	**S. Rajasekhara Reddy*** Chemistry Involved in daily life and carrier opportunities in chemical field.	**Dep. of Chemistry R.B.V.R.R WOMEN'S COLLEGE, TELANGANA,** *India.* **/National**	Invited Talk
30	28.03.15	**S. Rajasekhara Reddy*** Synthesis of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Their Inhibition Studies on Various Disease-Causing Targets	Suven Life Sciences. Jeedimetla, Hyderabad-500055. **/National)**	Invited Talk at Industry
29	19.03.15	B.Muralidhar, **S. Rajasekhara Reddy***Synthesis of Novel 8-Phenyl-6h-Benzo[C]Chromene Derivatives Via [4+2] Annulation of 4-(Phenylethynyl)-2h-Chromene-3-Carbaldehyde With Alkynes.	YOGI VEMANA Univ., KADAPA, AP *(National conf.), India.* **/National**	Poster Presentation
28	19.03.15	**S. Rajasekhara Reddy*** Synthesis of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Their Inhibition Studies on Various Disease-Causing Targets	YOGI VEMANA Univ., KADAPA, AP *(National conf.), India.* **/National**	Poster Presentation
27	28.02.2015	**S. Rajasekhara Reddy*** Synthesis of Diversity Oriented Bioactive Compounds via Selective Oxidation Approach and Their Inhibition Studies on Various Disease-Causing Targets	Acharya Nagarjuna Univaersity, AP, India. **/National**	Invited Talk
26	28.02.2015	**S. Rajasekhara Reddy*** Chemistry Involved in daily life.	Chalapathi Eng. College, Guntur, AP. **/National**	Invited Talk
25	19-02-15 to 20.02.15	**S. Rajasekhara Reddy*** Synthesis of various medicinally important compounds via selective oxidation approach	**Dep. of Chemistry R.B.V.R.R WOMEN'S COLLEGE, TELANGANA** *(National conference), India.* **/National**	Invited Talk
24	22-12-14 to 23-12-14	**S. Rajasekhara Reddy*** Synthesis of N-Cl, N-N and carbonyl compounds via selective oxidation approach & bioactivity studies on N-chloro compounds	K. J. Somia College of Arts, College & Science NCCICR-2014 *(National conf., India.* **/National**	Invited Talk
23	5-3-2014	M. V. Reddy and **S. Rajasekhara Reddy*** Synthesis of Novel Glucose Derived 2, 3 Disubstituted Octahydropyrano 1, 3 Oxazines	YOGI VEMANA Univ., KADAPA, AP *(National conf.), India.* **/National**	Poster Presentation
22	5-3-2014	Shivaji N and **S. Rajasekhara Reddy*** Metal-free organo catalytic and reusable method for selective oxygenation of benzylic C-H bonds using [BMIM]Br and TBHP	YOGI VEMANA University, KADAPA,Andhra Pradesh, India.(National conf.), *India.* **/National**	Poster Presentation
21	6-02-2014 to 8-02-2014	**S. Rajasekhara Reddy** Synthesis of novel N-chloro compounds and their inhibitions studies on various disease-causing targets.	North Maharashtra Univ, Jalgaon – 425 001, GOLD-CT-2014, India, International Conference. **/International**	**Invited Lecture**
20	5-12-2013 to 7-12-2013	**S. Rajasekhara Reddy*** and Shivaji Naidu New route to Copper-catalyzed cascade reaction for synthesis of pyrrolo-/pyrido[2,1-*b*]benzo[*d*][1,3]oxazin-1-ones in Ionic liquid [BMIM]Br	VIT Univ. Vellore, Tamilnadu, IETC2013, India. International Conference. **/International**	Poster Presentation
19	5-12-2013 to 7-12-2013	**S. Rajasekhara Reddy*** et.al., /Synthesis and biological activity studies on novel benzisoxazole and β-lactam derivatives	VIT University, Vellore, Tamilnadu, IETC2013, India. **/International**	Poster Presentation
18	5-12-2013 to7-12-2013	**S. Rajasekhara Reddy*** /Synthesis of Novel Carbohydrates Based Chiral Ionic Liquids and Application in Asymmetric Michael Addition Reaction	VIT Univ., Vellore, Tamilnadu, IETC2013, India, International Conference. **/International**	**Oral Presentation**
17	9-08-2013 to 11-08-2013	**Rajasekhara Reddy*** /Synthesis of Novel Derivatives of Carbohydrates, N-Chloro and N-N Bond Containing Compounds for Various Medicinal Chemistry Applications	ICNT 2013, MG. Univ. Kottayam, Kerala, India. International Conference. **/International**	**Invited Lecture**
16	07-03-2013 to 08-03-2013	**Rajasekhara Reddy*** /Synthesis of Divergent Novel N-Chloro Derivatives and Biological Activity Studies on 3-(1-chloropiperidin-4-yl)-6-fluorobenzo isoxazole	Adikavi Nananaiah University, India, National Conference. **/National**	**Invited Lecture**
15	06-03-2013 to 06-03-2013	**Rajasekhara Reddy*** /Chemistry Involved in Day Today Life	Idea college, Kakinada, A. P. **/National**	**Guest Invited Lecture**
14	08-02-2013 to 10-02-2013	**S. Rajasekhara Reddy[a]*** A. Sheela[b]* Poonam R Inamdar. B. Muralidhar and C. B. Rajashekar Reddya. A New Method of Oxygenation of Benzylic C-H Bonds Using Vanadium complex as Catalyst	CSIR-CLRI, Chennai, India. **/National**	Poster Presentation

13	29-01-2013 to 01-02-2013	**S. Rajasekhara Reddy[a]*** /Synthesis of novel N-chloro and N-N bond containing compounds for various biological applications.	Sians University, Malaysia **/International**	**Invited Oral Presentation**
12	26-11-2012 to27-11-2012	**S. Rajasekhara Reddy[a]* et. al.,** /Synthesis of Novel N-chloro derivatives for Various Biological Applications	VIT Univ. Vellore, Tamilnadu, India. **/National**	Poster Presentation
11	02-04-2012 to 04-04-2012	**S. Rajasekhara Reddy[a]***/A Catalytic Approcach for the Synthesis of Novel Benzisoxazole Derivatives for Various Biological Applications	IISER Pune, India. / **/National**	Poster Presentation
10	20-01-2012 to 21-01-2012	**S. Rajasekhara Reddy[a]*** /A Novel Organo Catalytic Method for Oxidative Coupling of Alkyl Amines and Amides Under Mild Reaction Conditions	Cochin University, Kerala, CTRIC-2012, India. **/National**	**Invited Oral Presentation**
9	23-11-2011 to 25-11-2011	**S. Rajasekhara Reddy[a]** /Selective oxidation of Carbohydrate Derivatives	IICB and NIPER, Kolkata CARBOXXX-2011, India. **/National**	**Invited Oral Presentation**
8	23-09-2011	**S. Rajasekhara Reddy*** /Chemistry from renewable resources (On occasion of **IYC** (International Year of Chemistry)	SKRC women's college, Rajamundry, Andhra Pradesh. **/National**	**Invited Lecture**
7	23-09-2011 to 24-09-2011	**S. Rajasekhara Reddy** and A. Chadha, An Innovative Approach for Monitoring Transesterification Reaction, Biodiesel Production and Estimation of Its Quality & Selective Oxidation Methods for Variety Alcohols and Alkanes	Adikavi Nananaiah University, India. **/National**	**Invited Lecture**
6	04-03-2011 to 05-03-2011	**S. Rajasekhara Reddy** and A. Chadha, /Glycerol Sensor to Monitor biodiesel Production and Studies on Selective Oxidation of Alcohols. Current Trends in Chemistry	Cochin University, Kerala, CTRIC-2011. **/National**	**Invited Oral Presentation**
5	24.12. 2010	**S. Rajasekhara Reddy** and A. Chadha, 'Derivatizing Glycerol to Monitor Biodiesel Production and Studies on Selective Oxidation of Alcohols	IIT Madras, Chennai, India. **/National**	**Invited Oral Presentation**
4	17-03-2010 to	**S. Rajasekhara Reddy and** A. Chadha, Development of Glycerol Sensor by Derivatizing Glycerol and Studies on Selective Oxidation of Alcohols	IIT Madras, Chennai, India. **/National**	**Invited Presentation**
3	23.04.2008 to	**S. Rajasekhara Reddy** and A. Chadha, Recent advances in oxidation of alcohols & Alkanes	IIT Madras, Chennai, India. **/National**	**Invited Presentation**
2	05-12-2008 to 06-12-2008	**S. Rajasekhara Reddy** and A. Chadha, A simple and efficient method for estimation of glycerol in biodiesel.	IIT Madras, Chennai, BAAE2008, India. **/National, Proceeding:** Advanced Biotech, 2008, 7(5), page 49.	**Invited Oral Presentation/** ISSN:0973-0109
1	09-01-2006 to 12-01-2006	**S. Rajasekhara Reddy** and A. Chadha, A Simple, mild and Selective Oxidation method for Aliphatic, Allylic, Benzylic, Heterocyclic, Propargylic and α – Hydroxy Esters.	M. G. University, Kerala, INSOC-2006, India. **/International**	Poster Presentation

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Membership in Professional Academies:
1. Association of Pharmacy Professionals-Life Time-**APP/TN/LM-022/15**
2. Indian Science Congress no: A3334
3. Association of Carbohydrate Chemists and Technologists, India (ACCTI)-**Life Time membership LM/303/19**
4. AMRSC (Associate Member of Royal Society of Chemistry)- Member ID: 727970
5. Chemical Research Society of India (CRSI)-Lifetime Membership No is LM 4014

Declaration: I certify that the foregoing information is correct and complete to the best of my knowledge.
Yours Sincerely,

Dr. SABBASANI RAJASEKHARA REDDY

References:

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