


Name:	Photo			
				
Designation:	Associate Professor			
Qualification:	M.Sc. M. Phil. Ph.D.,			
Area of specialization:	Synthetic Organic Chemistry and Physical Chemistry			
Experience:	Industrial Experience		Teaching Experience	
	7 Years and 10 Months		11 Years and 7 Months	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	7		29	
Publications:	Conference		Journal	
	National	International	National	International
	7	7	1	14
Books / Book Chapters	3			
Patents:	National		International	
	7		3	
Professional Body Membership	IEEE & ISTE			
Staff Achievements	<ul style="list-style-type: none"> ● Achieved 100% result in Engineering Chemistry-I & EVS 			

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	General Chemistry	01/04/1998	Kandaswamy Kandar's college	Madras University	71.83%	First class
PG	M.Sc	General Chemistry	01/06/2000	Kandaswamy Kandar's college	Periyar University	67.20%	First class
	M.Phil	Physical Chemistry	01/02/2002	--	Annamalai University	64.80%	First class
Research	Ph.D	Organic Chemistry	01/06/2005	--	Annamalai University	--	--

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College	Associate Professor	01/06/2019	Till Date	4	7	0
Sri Sairam Engineering College	Assistant Professor	01/06/2013	31/05/2019	7	0	0

Workshops/Seminars attended: 7

1. Attended a International level workshop on "Data Science using Python" organized by Sri Sairam Engineering College, held on Feb. 19 - 23, 2024.
2. Attended a national level workshop on "Data Analytics and Power BI for Educators" organized by Scorewell, held on May 19, 2024.
3. Attended a International level workshop on "Improving research and performance outcomes" organized by Elsevier's zoom webinar, held on **31.08.2021 to 01.09.2021**.
4. Attended a National level workshop on "Socially relevant technical Education: Exploring co-operation Oriented action" organized by NITTTR, Chennai, held on **6th & 7th Dec-2019**.
5. Attended a one day workshop on "Intellectual property rights & innovations" by Department of Research & Development, **Sri Sairam Engineering College, Chennai, held on 20th July 2019**.
6. Attended a National level workshop on "Advancements in Chemical Sciences" organized by Department of Chemistry, **Sri Sairam Institute of Technology, Chennai, held on 18th July 2016**.

7. *Attended a workshop on "Modern Analytical Techniques: A Practical Training" organized by Industry Institute partnership cell, Department of Pharmacy in association with the Pharmaceutical Manufacturers' Association of Tamil nadu, Annamalai University, Annamalainagar, March 26-27, 2005.*

FDP/STTP Attended: 29

1. *Attended 7 Days FDP on "Sustainable Engineering Concepts and Life Cycle Analysis", organized by NPTEL, Chennai held from Aug-Oct 2024.*
2. *Attended 5 Days FDP on "Advanced Nanomaterials and their applications" organized by VIT, Chennai, Chennai held from June 24-28, 2024.*
3. *Attended 5 Days FDP on "Latest Trends in Additive Manufacturing" organized by DR. MGR Educational and Research Institute, Chennai held from June 03-07, 2024.*
4. *Attended 7 Days FDP on "Introductory Organic Chemistry II" organized by NPTEL, Chennai held from Aug-Oct 2023.*
5. *Attended 7 Days FDP on "Air Pollution and Control" organized by NPTEL, Chennai held from Jan-April 2024.*
6. *Attended 7 Days FDP on "Applied Environmental Microbiology" organized by NPTEL, Chennai held from Jan-April 2024.*
7. *Attended 7 Days FDP on "Innovative teaching strategies and tools in the digital age" organized by SCOREWELL, May 20 - 26, 2024.*
8. *Attended 7 Days FDP on "Recent research developments in Chemistry" organized by Easwari Engineering College, Chennai held from July 27 - 29, 2024.*
9. *Attended 5 Days Faculty Development programme on "Universal Human Values" organized by All India Council for Technical Institution at Sri Sairam Engineering College, Chennai held from 26.07.22 to 30.07.22.*
10. *Attended 5 Days Faculty Development programme on "Inpod's faculty development program on advanced concepts of outcome based education" organized by Inpod's India Private Limited, Pune held from 04.04.22 to 08.04.22.*
11. *Attended a National level FDP on "Outcomes-based Teaching, Assessments and Evaluation" organized by Inpods Ed - tech, held on 17.09.2021.*
12. *Attended 5 Days ATAL Faculty Development programme on "Renewable Energy for Industry & Domestic Applications" organized by Jawaharlal Nehru Technological University Anantapur College of Engineering, Pulivendula held from 06.09.21 to 10.09.21.*
13. *Attended 5 Days Faculty Development programme on "Current Technology in Chemistry" organized by Easwari Engineering College, Chennai held from 23.08.21 to 27.08.21.*
14. *Attended 5 Days ATAL Faculty Development programme on "Environment, Energy, Health and Safety: Trends & Industrial Aspects" organized by Karmaveer Kakasaheb Wagh Polytechnic,*

Nashik held from 17.05.21 to 21.05.21.

15. *Attended one week online AICTE – RGPV Teachers Training Programme on “Artificial Intelligence in Pharmaceuticals : Contemporary Status & Impending Prospects organized at **Chameli Devi Institute of Pharmacy, Indore held from 15.02.21 to 20.02.21.***
16. *Attended 5 Days ATAL Faculty Development programme on “Waste Technology” organized by **Dr. M.G.R. Educational and Research Institute, Chennai held from 26.10.20 to 30.10.20.***
17. *Attended 5 Days ATAL Faculty Development programme on “Stress Management” organized by **Maulana Azad National Urdu University Polytechnic, Hyderabad held from 02.11.20 to 06.11.20.***
18. *Attended 5 Days ATAL Faculty Development programme on “Training for Social Connectedness & Inspiration” organized by Sri Venkateshwara College of Engineering, **Bangaluru held from 14.12.20 to 18.12.20.***
19. *Attended 5 Days ATAL Faculty Development programme on “Personal Effectiveness” organized by **Birla Institute of Technology, Jharkhand held from 05.01.21 to 09.01.21.***
20. *Attended 5 Days Faculty Development programme on “Chemistry in Medicine and materials Science” organized by the Department of Chemistry, School of Sciences, **National Institute of Technology, Andhra Pradesh held from 21.09.20 to 25.09.20.***
21. *Attended 5 Days Faculty Development programme on “Education 4.0 The Future Ahead”, conducted by **Sri Sairam College of Engineering, Bangaluru held from 10th to 14th Aug'-2020.***
22. *Attended 3 Days Faculty Development programme on “Frontiers in Chemistry” conducted by **St. Joseph’s College of Engineering, Chennai held from 16.09.20 to 18.09.20.***
23. *Attended 5 Days Faculty Development programme on “Applications of Advanced materials and Technologies in Chemical Science” conducted by **Easwari Engineering College, Chennai held from 31.08.20 to 04.09.20.***
24. *Attended 3 Days Faculty Development programme on “Advancements in Applied Chemistry” conducted by **St. Joseph’s College of Engineering, Chennai held from 06.07.20 to 08.07.20.***
25. *Attended 10 Days Faculty Development programme on “Waste water treatment and recycling”, conducted by **The Ministry of HRD, Govt. of India online NPTEL – AICTE Course, 2019, Roll No: NPTEL19CE32541212231.***
26. *Attended 6 Days Faculty Development programme on “Working culture for Professionals”, conducted by **Sri Sairam Engineering College, Chennai held from 11th to 16th NOV-2019.***
27. *Attended 10 Days Faculty Development programme on “Industrial Inorganic Chemistry”, conducted by **The Ministry of HRD, Govt. of India online NPTEL – AICTE Course, 2019.***
28. *Attended 3 Days Faculty Development programme on “Infrared Spectroscopy for Pollution Monitoring”, conducted by **The Ministry of HRD, Govt. of India online NPTEL – AICTE Course, 2018, Roll No: NPTEL18CH24511180538.***
29. *Attended 2 Days Faculty Development Programme on “Characterization of Materials” organized by Department of Physics, **Sri Sairam Institute of Technology, Chennai held on 20th & 21st July***

2017.

Symposium Attended: -

Conference Attended: 14

1. Presented a paper on, "Conformational studies of some *n*-acyl-3-methylpiperidin-4-ones" in International conference (AICASETM'22), organized by **Alpha College of Engineering, Thirumazhisai, Chennai, September 23, 2022.**
2. Presented a paper on, "Synthesis, Characterization and conformational studies of some Heterocyclic Compounds" in National conference on Chemical Sciences for Futuristic advancement, organized by **Easwari Engineering College, Ramapuram, Chennai-89, September 1-2, 2022.**
3. Presented a paper on, "Spectral and Conformational studies of some *N*-acyl-*t*(3)-methyl-*r*(2),*c*(6)-di-(2'-furyl)piperidin-4-one oximes" in International conference on Recent Trends in Chemical Sciences, organized by **SRM Institute of Science and Technology, Ramapuram campus, Chennai-89, September 24-25, 2021.**
4. Presented a paper on, "Conformational studies of some novel piperidin-4-one oxime derivatives" in International conference on Recent Trends in Chemical Sciences, organized by **Easwari Engineering College, Ramapuram, Chennai-89, October 6-7, 2021.**
5. Presented a paper on, "Spectral and Conformational studies of some novel *N*-acyl-*t*(3),*t*(5)-dimethyl-*r*(2),*c*(6)-di-(2'-furyl)piperidin-4-ones" in International conference on Recent Trends in Chemical Sciences, organized by the **Indian Chemical Society, December 26-29, 2020, Kolkatta.**
6. Attended a International Virtual Conference on "Super Capacitors and Batteries for Future Avenues" conducted during 8 - 9th September 2020 at **Bharthidhasan University, Tiruchirappalli.**
7. Attended a National Conference on "Current Trends in Energy Conservation Devices & Environment" held at Selvamm Arts and Science College (Autonomous), Department of Chemistry, **Periyar University, Namakkal, February 22-23, 2019.**
8. Presented a paper on, "Spectral and Conformational studies of some novel *N*-acyl-*t*(3),*t*(5)-dimethyl-*r*(2),*c*(6)-di-(2'-furyl)piperidin-4-ones" in International conference on Science, Engineering and Technology, May 2-3, 2017 organized by **VIT, Vellore.**
9. Presented a paper on, "Synthesis and Conformational studies of some novel *N*-acyl-*t*(3)-alkyl-*r*(2),*c*(6)-bis-(2'-furyl)piperidin-4-one oximes", in 3rd national level seminar on "The concepts of green chemistry" March 27, 2017 organized by Department of Chemistry, **Valliammi Engineering College, Chennai. (Best oral presentation award).**
10. Attended a National Conference on "Recent Advances in Chemical Research" held at University college of Science, **Osmania University, Hyderabad, February 6-7, 2009.**

11. Presented a paper on, "Influence of A^{1,3} strain in some N-Acyl-r(2),c(6)-bis(2'-furyl)-3-alkylpiperidin-4-one oximes" The 94th Indian Science Congress held at **Annamalai University, Annamalainagar** from January 3 to 7, **2007**.
12. Presented a paper on, Conformational studies of some N-benzoyl-r(2),c(6)-di-2'-furylpiperidin-4-ones. CRSI Seminar on Recent Advances in Chemistry, **Annamalai University, Annamalainagar**, March 10-11, **2006**.
13. Presented a paper on, Influence of A^{1,3} strain on the conformations of some N-Acetyl- 2,6-di-2'-furylpiperidin-4-ones. Chemists' Meet 2004, **IIT, Madras, Chennai**, March 26 - 27, **2004**.
14. Presented a paper on Conformational analysis of some N-Formyl-2,6-di-2'-furylpiperidin-4-ones. Current Trends in Chemistry, **Annamalai University, Annamalainagar**, March 24-25, **2004**.

Completed / Ongoing Projects: Nil

Patent: 10

1. Publication Number:202441040939 A "SYNTHESIS AND ANTIMICROBIAL ACTIVITY OF NOVEL SUBSTITUTED N-4(1s)-3-OXO-1-PYRIDIN-4YL-AMINO, BUTYL, PHENYL)ACETAMIDE". Publication Date : 31.05.24.
2. Publication Number:202441040949 A "SYNTHESIS AND ANTICANCER ACTIVITY OF NOVEL SUBSTITUTED 3(Z)-5-BROMO-3(2Z)-2-HYDROXY-5-(E)-PIPERIDINE". Publication Date : 31.05.24.
3. Publication Number:202441040957 A "SYNTHESIS AND ANTICANCER ACTIVITY OF NOVEL SUBSTITUTED HETEROCYCLIC CARBOZOLE IMINES AND METAL COMPLEXES". Publication Date : 31.05.24.
4. Publication Number: 202341026487 A "SYNTHESIS, CHARACTERIZATION AND ANTICANCER ACTIVITY OF N'-(2-AMINO-1,3- THIAZOLE-4-CARBONYL)-6-HYDROX". Publication Date : 05.05.23.
5. Publication Number : 202341026697 A "SYNTHESIS, CHARACTERIZATION, NLO, ANTIDIABETIC, ANTICANCER AND ANTIBIOTIC CHARACTER OF (E)-N,N'-(4-(((5-CHLOROPYRIDIN-2-YL)IMINO) (PHENYL)METHYL)-1,2-PHENYLENE)BIS(6- CHLORONICOTINAMIDE)". Publication Date : 05.05.23.
6. Publication Number: 202341026704 A "SYNTHESIS, CHARACTERIZATION, ANTIDIABETIC AND ANTICANCER ACTIVITY OF 2-[(Z)- ({5-[5-METHYL-1, 2- OXAZOL-3-YL]AMINO}PYRIDIN-2-YL)IMINO]METHYL]PHENOL RARE METAL (PR3+, ND3+, SM3+) COMPLEXES". Publication Date : 05.05.23.
7. Publication Number : **202241059048** Topic : A formulation based on pyridine derivative and preparation method thereof, Publication Date : **28.10.2022**.
8. Publication Number: **EP 2640711 A2** Topic: Improved process for the preparation of Rufinamide, Publication Date: **September 25, 2013**, Granted date: **14.10.2015**.
9. Publication Number: **US 20130184469 A1** Topic: Process for preparation of Rufinamide, Publication Date: **July 18, 2013**, Granted date: **28.10.2014**.

10. Publication Number: **WO 2012025936 A2** Topic: Improved process for the preparation of Rufinamide, Publication Date: **April 19, 2012.**

Journal Publications: 15

1. A. Kishore babu, **K. Selvaraju**, "Design, synthesis, characterization, and antimicrobial studies of novel 1, 3, 5-Trisubstituted Pyrazoline derivatives" **NeuroQuantology**, Volume20, Issue 10, 3277-3294, **August 2022.**
2. A. Kishore babu, **K. Selvaraju**, "Synthesis, biological evaluation and docking studies of novel chalcone derivatives as antimicrobial agents", **Materials Today: Proceedings**, Vol.48, 382-386, **2022.**
3. A. Kishore babu, **K. Selvaraju**, "Synthesis and characterization of some novel chalcone derivatives", **Rasayan Journal of chemistry**, Vol.11, No.4, 1501-1505, **2018.**
4. **K. Selvaraju**, A. Manimekalai, "Conformational studies of some N-acyl-3- Ethyl Piperidin-4-ones' ", **Rasayan Journal of chemistry**, Vol.11, No.3, 962-966, **2018.**
5. **K. Selvaraju**, A. Manimekalai, "Synthesis and spectral characterization of some novel N-acyl piperidin-4-ones", **Rasayan Journal of chemistry**, Vol.10, No.1, 25-31, **2017.**
6. **K. Selvaraju**, A. Kishore babu, "Synthesis, Spectral and Conformational studies of some Nacyl-t(3)-methyl-r(2),c(6)-bis-(2'-furyl)piperidin-4-ones", **International Journal of ChemTech Research**, Vol.8, No.7, pp 363-372, **2015.**
7. A. Manimekalai, T. Maruthavanan, **K.Selvaraju**, "DFT and experimental prediction of negative chemical shifts of methyl protons in some piperidines", **Spectrochimica acta. Part A, Molecular and biomolecular spectroscopy.**, 97, 942-947, **2012.**
8. A. Manimekalai, T. Maruthavanan, **K.Selvaraju**, "Unexpected shielding of methyl group protons in some piperidines" **Magn. Reson. Chem.**, 46; 256-260, **2008.**
9. A.Manimekalai, **K.Selvaraju**, and T.Maruthavanan., "Conformational studies of some N-acyl-t(3)-isopropyl-r(2),c(6)-bis(2'-furylpiperidin-4-ones., **Indian Journal of Chemistry**, Vol. 46B,160-169,**2007.**
10. A. Manimekalai, T. Maruthavanan, **K.Selvaraju**, Ibon Alkorta "Benzyl group conformation in some 4-benzyl-4-hydroxypiperidines"., **Journal of structural chemistry**, Vol. 48, Issue no.6,1036-1045, **2007.**
11. S.Balamurugan, A.Thiruvalluvar, A.Manimekalai, **K.Selvaraju.**, T.Maruthavanan., "1-acetyl-r(2),c(6)-di-2-furyl-3,5-dimethylpiperidin-4-one.", **Acta crystallographica section E**, 789-791, E63, **2007.**
12. S.Balamurugan, A.Thiruvalluvar, A.Manimekalai, **K.Selvaraju.**, T.Maruthavanan., N-benzoyl-r(2), c(6)-di-2'-furyl-t(3)-methylpiperidin-4-one., **Acta crystallographica section E**, E63,2909, **2007.**
13. S.Balamurugan, A.Thiruvalluvar, A.Manimekalai, **K.Selvaraju.**, T.Maruthavanan., "1-acetyl-3-ethyl-r(2), c(6)-di-2'-furylpiperidin-4-one.", **Acta crystallographica section E** E62, 2005-2006,

2006.

14. N.Ashok kumar, L.Pari, A.Manimekalai, **K.Selvaraju**, "Effect of N-benzoyl-D- phenylalanine on strptozotocin induced changes in lipid and lipoprotein profile in rats", **Journal of Pharmacy and Pharmacology**, 57, 359-366, **2005**.

National:

1. A. Manimekalai, T. Maruthavanan, **K.Selvaraju**, "Syntheis and Spectral Studies of Some 4-hydroxy-4-methylpiperidines" **Chemical Science Review and Letters.**, 2(7), 580-587, **2014**.

Books / Book Chapters: 3

1. CONFORMATIONAL STUDIES OF N-ACYL-PIPERIDIN-4-ONES Dr. K. Selvaraju, Mr. A. Kishore Babu, Dr. M.K. Raman. *NEW GLOBAL BUSINESS, SCIENCE AND TECHNOLOGY*. ISBN: 978-81-958752-6-9.
2. *Chemical and Biological Significance of Chalcones and its Derivatives-* Mr. A. Kishore Babu, Dr. M.K. Raman and Dr. K. Selvaraju *CHALLENGES AND OPPORTUNITIES IN NEW GLOBAL BUSINESS, SCIENCE AND TECHNOLOGY*. ISBN: 978-81-958752-6-9.
3. *TREATMENT OF TEXTILE DYES BY SUSTAINABLE METHOD – AN ADSORPTION WITH NATURAL MATERIALS* Dr. M.K. RAMAN Dr. K. SELVARAJU Mr. A. KISHORE BABU Mr. M.J. RAMASWAMY. *CHALLENGES AND OPPORTUNITIES IN NEW GLOBAL BUSINESS, SCIENCE AND TECHNOLOGY*. ISBN: 978-81-958752-6-9.

Awards: 3

Startup: -

Webinar: 15

1. Attended webinar on "**Yoga – Boosting our Immunity**" organized by Sir Theagaraja college (Shift – II) held on 18.09.21.
2. Attended webinar on "**Teacher's E-Kit: A Four Quadrant Approach for development of OERs for Higher Education**" organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education held on 09.09.21.
3. Attended webinar on "**The Importance of Data Visualization**" organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education held on 10.08.21.
4. Attended webinar on "**Ionic liquids as Environmental Benign Solvents for sustainable developments**" organized by Rasayan Journal of Chemistry held on 24.02.21.

5. Attended webinar on **“Criteria 3 NBA Accreditation”** organized by In Pods Ed-tech held on 28.01.21.
6. Attended International webinar on **“Renewable Energy Sources”** conducted by Department of Chemistry, SRM Valliammai Engineering College, Chennai on 18th December 2020.
7. Attended a National webinar on **“Recent Trends in Modern Chemistry”** organized by the Department of Organic Chemistry, Sri Padmavathi Mahila Visvavidyalayam (Women’s University) held on 28th Nov. 2020.
8. Attended webinar on **“Ionic liquids as Environmental Benign Solvents for Sustainable Developments”**, organized by Rasayan Journal of Chemistry, held on 24.02.2021.
9. Attended webinar on **“Waste Management Strategies”** organized by Hindusthan College of Engineering and Techno.ogy, Coimbatore held on 31.05.2020.
10. Attended webinar on **“Computational Chemistry on Biofuel Development”** organized by St. Joseph's College of Engineering, Chennai held on 16.07.2020.
11. Attended webinar on **Leadership Talk** organized by MHRD's Innovation Cell held on 13.06.20.
12. Attended webinar on **Leadership Talk** organized by MHRD's Innovation Cell held on 06.06.20.
13. Attended webinar on **Leadership Talk** organized by MHRD's Innovation Cell held on 08.06.20.
14. Attended webinar on **“R&D Proposal Writing”** organized by Sri Sairam Engineering College held on 12.06.20.
15. Attended webinar on **“CO-PO Attainment Computation and Outcomes Analysis”** organized by In Pods Ed-tech held on 01.06.20.

Resource Person: Nil

Online Courses: 20