

Name : Dr. R.Ravikumar
Designation : Associate Professor
Department : Chemistry
Qualification : M.Sc., Ph.D.
Experience : Teaching: 13.5 Years Industry: 1Year Research: 25 years
Area of Specialization(s) : Phytochemistry and synthetic organic chemistry
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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D	Chemistry	Government Arts College, Udthagamandalam	2005
M.Sc	Chemistry	Government Arts College, Udthagamandalam	1992
B.Sc	Chemistry	Arignar Anna Government Arts College, Attur	1989

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certificate	Drug Discovery	Coursera	2022
Online Certificate	Organic chemistry	NPTEL	2019

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	15	-

Research Publications (Indexed)

International

1. Gino A Kurian, R. Ravikumar, V. Venkatesh, S. Swesh, Jose Padikkala, **In vivo and In vitro evaluation of free radical scavenging potential of methanol extract of desmodium gangeticum root: a possible explanation through GC Mass analysis.** *Pharmacognosy magazine*, 4(15), 162, 2008, (Indexed in SCI).

2. S. Ravi., R. Ravikumar, A. J. Lakshmanan, **Pyrrolizidine alkaloids from *Cynoglossum furcatum* Wall.** *Journal of Asian Natural Products Research*. 10(4), 307, 2008, (Indexed in SCI).
3. S. Ravi., R. Ravikumar, A. J. Lakshmanan, **Chemical constituents from *Clerodendron serratum*,** *Journal of Asian Natural Products Research*. 10(7-8), 659, 2008, (Indexed in SCI).
4. G.N.K.V. Durga Reddy, R. Ravikumar, S. Ravi, Srinivas rao Adappa , **A Cu (NO₃)₂.3H₂O catalysed facile synthesis of substituted 4(3H)-quinazolinones and Benzimidazoles,** *J. Chem. Sci.* 125(1), 175, 2013, (Indexed in SCI).
5. K. R. Sugumaran, E. Gowthami, B. Swathi, S. Elakkiya, S. N. Srivastava, R. Ravikumar, D. Gowdhaman, V. Ponnusami, **Production of pullulan by *Aureobasidium pullulans* from Asian palm kernel: A novel substrate.** *Carbohydrate Polymers*, 92, 697, 2013 (Indexed in SCI).
6. S. Manikandaselvi, R. Ravikumar, R. Thinagarbabu, C. Davidraj, S. Arvind, **Hepatoprotective potential of *Azima tetracantha* and *Tribulus terrestris* on ferrous sulfate-induced toxicity in rat,** *Bangladesh J Pharmacol*, 8, 357-360, 2013 (Indexed in SCI).
7. S. Shanker, R. Narendran, M. Saibrind, S. Gayathri, R. Ravikumar, S. Aravind, **Dual role of select plant based nutraceuticals-as antimicrobial agents to mitigate food borne pathogens and as food preservatives.** *RSC advances*, 1-3(3), 2013 (Indexed in SCI).
8. Chandini R Nayar, R. Ravikumar, **A review on the second order Nonlinearities of Schiff's bases derived from salicylaldehyde and their metal complexes,** *J of Coordination Chemistry*, 67(1), 1, 2014 (Indexed in SCI).
9. M. Arunkumar, K. Subhashini, N. Mahesh, R. Ravikumar, **Quorum quenching and antibacterial activity of silver nano particles synthesized from *Sargassum polyphyllum*,** *Bangladesh J Pharmacol*, (9), 54, 2014 (Indexed in SCI).
10. Rekha Arya, R. Ravikumar, R.S. Santhosh, S. Adline Princy, **Novel SarA based Therapeutic candidate against Multi-Drug Resistant *Staphylococcus aureus* associated with vascular graft infections.** *Frontiers in Microbiology*, (6), 1, 2015 (Indexed in SCI).
11. S. Shanker, R. Ravikumar, P. Anbumathi, S. Aravind, **Development and extraction optimization of baicalein and pinostrobin from *Scutellaria violacea* through response surface methodology.** *Pharmacogamazine*, (11), 43, 2015 (Indexed in SCI).
12. R. Rathnasamy, R. Ravikumar, S. Manikandaselvi, R. Thinagarbabu, S. Aravind, **Isolation and characterization of clerodane diterpenoids from the traditional medicinal plant-*Tinospora glabra* (Burm.f.)Merrill,** *der pharmacia Lettre*, 8(8), 280, 2016, (Indexed in Scopus).
13. N. Hari, S. Aravind, Gino A. Kurian, R. Ravikumar, **Green synthesis, characterization of novel 1,2,3-triazole-chalcone hybrids and evaluation of their antibacterial, antifungal and antiproliferative activity,** *Der Pharmazia Lettre*, 8(19), 27, 2017 (Indexed in Scopus).
14. A. Sankar, G. Pandimuthu, P. Nithya, R. Ravikumar, M. Nagoor Meeran, **Synthesis,haracterisation and Antimicrobial activity of substituted pyrazole based heterocyclic compounds,** *derpharma Chemica*, 8(19), 345, 2017 (Indexed in Scopus).
15. S. Shanker, R. Ravikumar, S. Aravind, **A benign alternative process for efficient separation of**

pure commercially important flavonoid nutraceuticals from edible plants. *Food Sci Tech.* (54), 1519, 2017, (Indexed in SCI).

16. P. Mariajancyrani, G. Chandramohan, R. Ravikumar, Fathima Beevi, **Isolation and antibacterial activity of oleananoic acid acetate from *Delonix regia* leaves,** *journal of pharmacy research*, (6), 423, 2013 (Indexed in SCI).

17. S. Manikandaselvi, D. Ramya, R. Ravikumar, R. Thinakarbabu, **Evaluation Of Antinephrotoxic Potential Of *Azima Tetracantha* Lam. And *Tribulus Terrestris* Linn.,** *Int J Pharm Pharm Sci*, 4(3):566, 2012 (Indexed in Scopus).

18. P. Mariajancyrani, G. Chandramohan, R. Ravikumar, **Isolation and identification of phytoconstituents from *Delonix regia* leaves,** *Int journal of pharm Pharm Sci.*, 5(4), 671, 2013 (Indexed in Scopus).

National

1. R. Ravikumar, A. J. Lakshmanan, **Isoechinatine, a pyrrolizidine alkaloid from *Cynoglossum furcatum* Wall.** *Indian Journal of Chemistry Sec-B*, 43B, 406, 2004 (Indexed in SCI).

2. M. Easwaramoorthy, R. Ravikumar, A. J. Lakshmanan, G. J. Raju, **Ecofriendly, microwave enhanced Fries rearrangement of anilides and phenyl ureas.** *Indian Journal of Chemistry Sec-B*, 44B, 635, 2005 (Indexed in SCI).

3. N. Sridhar, S. Venkataraman, S. Manisha mishra, R. Ravikumar, **Antinephrolithiatic effect of *Crataeva magna* Lour. DC root on ethylene glycol induced Lithiasis,** *Int. J of Pharm & Ind. Res*, 1(2), 135, 2011, (Indexed in Scopus).

4. V. Leela, A. Saraswathy, R. Ravikumar, **Estimation of Quercetin in *Acacia nilotica* Linn (Flowers) using HPTLC,** *Journal of Pharmacy research*, 4(3), 818, 2011 (Indexed in Scopus).

5. S. Manikandaselvi, R. Subalakshmi, R. Thinakarbabu, R. Ravikumar, **Evaluation of antidiabetic potential of ethanolic extract of Leaves of *ficus bengalensis* Linn.** *International Journal of Pharma and Bio Sciences*, 3(2):0997-1004, 2012, (Indexed in Scopus).

6. G.N.K.V. Durga Reddy, R. Ravikumar, S. Ravi, Srinivas rao Adappa, **A CaO catalised facile one pot synthesis of 2-aminothiophenes using Gewald reaction.** *Der Pharma Chemica*, 5(6), 2013, (Indexed in Scopus).

7. T.Aishwarya and R. Ravikumar, **A comparative study on phytochemical analysis, antibacterial activity and antioxidant activity of *Barleria Prionitis* leaves petroleum ether and ethanol extracts.** *Int J of Chem Tech Research*, 6(5), 3025-3033, 2014 (Indexed in Scopus).

8. S. Sathiya, S. Nandhabala, N. Hari, R. Paranthaman, A. Sankar, R. Ravikumar, **Synthesis and antimicrobial activity of novel 4-amino benzamide derived 1,2,3 - triazole linked pyrazolines.** *Rasayan J Chem*, 12 (4), 2260, 2019 (Indexed in Scopus).

9. S. Sathiya, A. Keerthika, B. S. Krishnamoorthy, S. Nandhabala, S. Aravind, N. Hari, R. Ravikumar, **Synthesis of novel pyrazolines and their antimicrobial activity.** *Rasayan J Chem*, 13 (1), xxx. 2020, (Indexed in Scopus).

10. M. Mohanraj, R. Rajkumar, M. Dineshkumar, R. Ravikumar, **Essential Oil, Phytochemical Analysis And Biological Activity Of Plectranthus Wightii Benth**, International Journal of Creative Research Thoughts, *10*(12), e26-e34, December 2022, ISSN: 2320-2882 (Indexed in UGC).
11. R. Ravikumar, M. Dineshkumar, M. Mohanraj, R. Rajkumar, **A Comparative Study on Metal Ion Reducing Ability, Phytochemical Screening and Biological Activity of Flower, Stem and Leaf Parts of Todalía Asiatica (Linn.) Lam.**, International Journal of Creative Research Thoughts, *10*(11), e863-e874, November 2022, ISSN: 2320-2882 (Indexed in UGC).
12. M. Mohanraj, R. Pooja, R. Rajkumar, R. Raju, **A Review On Therapeutic Application Of Ruthenium Complexes**, International Journal of Creative Research Thoughts, *10*(11), e900-e906, November 2022, ISSN: 2320-2882 (Indexed in UGC).
13. R. Rajkumar, M. Mohanraj, R. Raju, **Important Roles of Cyclic Di-Keto Compounds To One Pot Syntheses of Nitrogen Heterocyclic Systems**, International Journal of Creative Research Thoughts, *10*(7), b592-b604, September 2022, ISSN: 2320-2882 (Indexed in UGC)

Book Publications

1. **Organic Chemistry: Lab Manual for PG Students**, R. Ravikumar, M. Dinesh kumar, Published by Dr. N.G.P Arts and Science College, Coimbatore, 2022. **ISBN-978-81-960903-1-9**.
2. **Introduction to Organic Chemistry**, R. Rajkumar, R. Ravikumar, S. Deepan, Published by Dr. N.G.P Arts and Science College, Coimbatore, 2022, **ISBN-978-81-943062-9-0**.

Presentations in Conference

International

1. **A Comparative Study on Metal Ion Reducing Ability, Phytochemical Screening and Biological Activity of Flower, Stem and Leaf Parts of Todalía Asiatica (Linn.) Lam.**, International Virtual Conference on Future Prospects in Chemical Research, Seethalakshmi Ramaswami College, Tiruchirappalli – 620 002, 21 & 22- Dec-2022.
2. **Synthesis and Characterization of 1,2,3-triazo chalcone hybrids and their pyrimidine-2-one & 2-thionederivatives**, Pune Institute of Technology, Pune, 13 & 14-Feb-17

Participation in Conference

1. Conference on Longest Virtual Event on Vision 2030 by Tamilnadu Teachers Education University, Karapakkam, Chennai on 18th June 2021.

Participation in Seminars

1. Seminar on Solid Waste Management by School of Management and Entrepreneur Development and Department of Environmental Sciences, Bharathiar University, Coimbatore on 18th Feb 2021.

Participation in Faculty Development Programme

1. Faculty Development Programme on Research Methodology and Pedagogy for Tertiary Education by Internal Quality Assurance Cell & Center for Faculty Development by Dr.N.G.P Arts and Science College, Coimbatore on 15-21 June 2021.

Conference / Seminar / Workshop Organized

1. Organizing committee member, National Conference on New Horizons in Chemical Sciences, Vivekananda College of Arts and Sciences for Women, 6 & 7-Jan-2017.
2. Organizing committee member, Current Scenario in Chemical and Environmental research, Vivekananda College of Arts and Sciences for Women, 20 & 21-Feb-2018.
3. Organizing committee member, Innovations in Chemical Research, Vivekananda College of Arts and Sciences for Women , 1 & 2-Feb-2019.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

Resource Person, Indian Academy of Sciences sponsored Faculty Development programme, Vivekananda College of Arts And Sciences for Women, Tiruchengode, 2018.

Member in BoS

1. Board of Chemistry, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, June 2019 - Till date.
2. Board of Chemistry, Vivekananda College of Arts and Sciences for Women , Tiruchengode, Since 2015to 2019.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Council of Chemists	1 Year	-