

Name : Dr. V. SATHIYENDIRAN
Designation : Head & Associate Professor
Department : Chemistry
Date of Joining : 23.02.2000
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Educational Qualification: M.Sc., M.Phil., B.Ed., Ph.D.

Degree	Subject	College / University & Place	Year Completed
B.Sc.,	Chemistry	Yadava College, Madurai	1992
M.Sc.,	Chemistry	P.S.G.Collge of Arts and Science, Coimbatore.	1994
B.Ed.,	Physical Science	Madurai Kamaraj University, Madurai	1996
M.Phil.,	Chemistry	Annamalai University, Chidambaram.	1997
Ph.D.	Chemistry	Annamalai University, Chidambaram.	1999

Specialization in Teaching:

S. No	Subject	Topic
1	Organic Chemistry	Heterocyclic compounds Organic Nitrogen compounds Organic analysis Stereochemistry Green Chemistry Spectroscopy
2	Physical Chemistry	Surface Chemistry Thermodynamics Chemical Kinetics Electrochemistry Photochemistry
3	Inorganic Chemistry	
4	Applied Chemistry	
5	Analytical Chemistry	

Ph.D Research Topic:

Correlation analysis and Reactivity: Oxidation of some substrates with Quinolinium Fluorochromate and Peroxomonosulphate: A Kinetic Study

Specialization in Research: Physical Organic Chemistry

Research Interests:

1. Oxidation kinetics
2. Adsorption
3. Organic Synthesis

Technical Skills:

UV-Vis spectrophotometer
Spectrofluorometer

Membership in Professional Bodies:

S. No	Name of the Institution	Place
1	Madurai Kamaraj University	Madurai
2	Yadava College	Madurai
3	E.M.G.Yadava Women's College	Madurai
4	Saraswathi Narayanan College	Madurai

Articles Published in National / International Journals:

1. Kinetics and Mechanism of Imidazolium Dichromate Oxidation of α -Hydroxy Acids in Acetonitrile Medium. Subbiah Meenakshisundaram and V.Sathiyendiran, *Oxidation Communications*, **21(1)**, 71(1998).
2. Mechanism of Imidazolium Dichromate Oxidation of α -Hydroxy Acids in Perchloric Acid Medium. Subbiah Meenakshisundaram and V.Sathiyendiran, *Oxidation Communications*, **21(1)**, 77(1998).
3. Quinolinium Fluorochromate Oxidation of α -Hydroxy Acids in Perchloric Acid Medium. Subbiah Meenakshisundaram V.Sathiyendiran, *Polish J. Chem.*, **72**,2261 (1998).
4. Mechanistic Studies on the Oxidation of Some Sulphides with Quinolinium Fluorochromate in Nonaqueous Medium. Subbiah Meenakshisundaram and Vasudevan Sathiyendiran. *Bull.Pol.Acad.Sci.*,**47**,167(1999).

5. Oxidation of some *Ortho*. Substituted phenyl methyl Sulphides with Quinolinium Fluorochromate in Acetonitrile medium. Subbiah Meenakshisundaram and V. Sathiyendiran, *Asain J.Chem.*, **12**, 336(2000)
6. Mechanistic studies on the Oxidation of Atrolactic Acid with Quinolinium Fluorochromate. Subbiah Meenakshisundaram and V. Sathiyendiran *Asain J.Chem.*, **12**, 359 (2000)
7. Quinolinium Fluorochromate Oxidation of Benzilic Acid in aqueous Acetic Acid Medium. A Kinetic Study. Subbiah Meenakshisundaram, V. Sathiyendiran and M. Mahendran, *Afinidad* **495**, 341 (2001).
8. Catalysis of the Oxone Oxidation of some Sulphoxides by Ru(III). Subbiah Meenakshisundaram and V. Sathiyendiran, *J. Chem Res.*, (**M**) 1118(2001)
9. Ru(III) inhibition on the oxidation of anilines with Peroxomonosulphate. Subbiah Meenakshisundaram & V. Sathiyendiran, *J.Chem.Research* (**M**) 0115-0132 (2001).
10. Synthesis and Insect Antifeedant activities of some substituted styryl 3,4-dichlorophenyl ketones. G.Thirunarayanan, S.Surya, S.Srinivasan, G.Vanangamudi and V.Sathiyendiran, *Spectrochimica Acta part A: Molecular and Biomolecular Spectroscopy* **75**, 152, (2010).
11. Infrared Spectral Linearity of some Anti-Plasmoidal Potent Chalcones. G.Thirunarayanan et.al., *The IUP Journal of Chemistry*, **Volume III No.1**, 82 (2010).
12. Solvent free synthesis spectral studies and antioxidant activities of some 6-substituted w-bromo -2-naphthyl ketones and their esters, G. Thirunarayanan et.al., *Indian Journal of Chemistry*, **Volume 50B**,593 (2011)
13. Structure parameter correlation of some quinoxaline derivatives through IR and ¹³C NMR spectra, G.Thirunarayanan, I.Muthuvel, V.Sathiyendiran, *International Letters of Chemistry, Physics an Astronomy*, **19(2)**,198, (2014)
14. Insect antifeedant potent quinoxalines, K.Lakshmanan, K.G.Sekar, V.Sathiyendiran, I.Muthuvel, *International Letters of Chemistry, Physics and Astronomy*, **2**,82, (2015)
15. Spectral LFER studies on some sydone chalcones, G.Thirunarayanan, G.Vanangamudi, V.Sathiyendiran, *International Letters of Chemistry, Physics and Astronomy*, **53**,41,(2015)

16. (E)-N-substitutedbenzylidene-4-methoxyanilines as insect antifeedants, K.Lakshmanan, K.G.Sekar, V.Sathiyendiran, R.Suresh, *International Letters of Chemistry, Physics and Astronomy*, **2**, 118, (2015)
17. Ionic liquid assisted olefin reactions, G.Thirunarayanan, I. Muthuvel, V.Sathiyendiran, *World Scientific News*, **126**, 36, (2019)
18. FT-IR and NMR Spectral LFER model analysis on some 3-(1-naphthyl)-1 - substituted phenyl chalcones, K.G.Sekar, P.Janaki, I.Muthuvel, V.Sathiyendiran, G.Thirunarayanan, *World Scientific News*, **147**, 88 (2020)
19. Synthesis spectral correlation analysis and evaluation of antimicrobial activities of some (E) - 1- (2,4-dimethylthiazol-5-yl) - 3 - phenylprop - 2 - ene - 1 - ones, V.Sathiyendiran, et.al., *World Scientific News*, **141**, 66 (2020)
20. Synthesis spectral, antibacterial and docking analysis of (3,4 - bis(E) - (arylidene) aminophenyl (phenyl) methanones, I.Muthuvel, et.al., *Indian Journal of Chemistry* **62**, 131(2023)

Conference / Seminar Attended/ Presented:

1. *Kinetics and Mechanism of Imidazolium Dichromate Oxidation of α - Hydroxy Acids in Acetonitrile Medium.* In the Indian Council of Chemists 15th Conference held at Aurangabad, October 24-26, 1996
2. *Mechanism of Imidazolium Dichromate Oxidation of α - Hydroxy Acids in Perchloric Acid Medium.* In the 33rd Annual Convention of Chemists held at Coimbatore. Dec. 26-29' 1996.
3. Fifth Tamilaga Ariviyal Peravai Conference held at Annamalai University, Annamalainagar, June 5-7' 1997.
4. *Reduction of Cr(VI) with some α - Hydroxy Acids in Perchloric Acid Medium.* In the Second National Symposium on Students' Projects on Correlation Analysis held at Tiruchirappalli, August 30' 1997.
5. *Mechanism of Oxidation of some Aryl Methyl Sulphides with Quinolinium Fluorochromate in Acetonitrile Medium.* In the 34th Annual Convention of Chemists held at New Delhi, Dec. 17-20' 1997.
6. *Quinolinium Fluorochromate Oxidation of Dialkyl Sulphides in Nonaqueous Medium.* In the Indian Council of Chemists, Sixteenth Conference held at Mangalore, Dec.29-31' 1997.

7. *EDTA-Catalyzed Cr (VI) Oxidation of some Cyclanones*. In the National Conference on Current Trends in Chemistry held at Annamalainagar, March 20-22' 1998
8. *Ortho-Effect Oxidation of Some Aryl Methyl Sulphides with Quinolinium Fluorochromate*. In the UGC-DRS National Symposium on Newer Vistas in Synthetic Protocols and Structural Elucidation in Chemistry, held at Madurai, April 22-24' 1998.
9. Sixth Tamilaga Ariviyal Peravai Conference held at Avinashilingam Deemed University, Coimbatore, May 8-10' 1998.
10. *Pyridine-2-Carboxylic Acid Catalyzed Oxidation of Tartaric Acid with Quinolinium Fluorochromate*. In the third National Symposium on Students 'Projecton Correlation Analysis in Chemistry' held at Mysore, September 21-22' 1998.
11. *Quinolinium Fluorochromate Oxidation of Benzilic Acid: A Kinetic and Mechanistic study*. In the 35th Annual Convention of Chemists held at Dharwad, Nov. 4-7' 1998.
12. *Mechanistic Studies on the Oxidation of Methyl Phenyl Sulphoxide with N, N-Dibromobenzenesulphonamide in Alkaline Medium*. In the Indian Council of Chemists 17th Conference held at Chennai, November 26-28' 1998.
13. *Application of Correlation Analysis to Data Sets of Oxidation of some Ortho-Substituted Anilines*. In the 8th International Conference on Correlation Analysis in Chemistry, held at Chennai, January 10-14' 1999.
14. Recent Trends in Chemistry; One-day Seminar held at Fatima College, Madurai, December 17, 2004.
15. The Indian Science Congress Association held at Annamalai University, AnnamalaiNagar, January 3 - 7, 2007
16. National Conference on Recent Advances in Chemistry held at Periyar University, Salem, March 01 & 02, 2007.
17. State Level Seminar on Expanding Frontiers in Chemistry held at Arul Anandar College, Madurai, February 27, 2008.
18. National Seminar on Emerging Trends in Chemistry held at CPA College, Bodinayakanur, July 24 & 25, 2008.

19. State Level Seminar on Expanding Frontiers in Chemistry held at Arul Anandar College, Madurai, March 20, 2009.
20. State Level Workshop on Quality excellence and quality sustenance in Education held at Sourashtra College, Madurai, August 21, 2009.
21. *Adsorption Isotherm studies of Red win and fast green dyes on Paddy Husk carbon and Granular Activated carbon -comparative study.* In the National Conference on Materials Science held at Annamalai University, Annamalai Nagar, October 09- 10, 2009.
22. National Seminar on Pioneering Areas in Chemistry held at Devanga Arts College, Aruppukottai, Jan. 20-21, 2010.
23. National Seminar on Renewable Energy Resources held at Yadava College, Madurai, March 04 - 05, 2010.
24. Trainers Training programme on "values in life and motivation" held at Sourashtra College, Madurai, July 15, 2010.
25. *Adsorption of Amido Black and direct blue dye cotton seed carbon and Granular activated carbon - A comparative study.* In the National Seminar on Emerging Trends in Chemistry held at CPA College, Bodinayakanur, September 23-24, 2010.
26. National Seminar on Nanostructured Materials and Applications held at Madurai Kamaraj University, Madurai, March 04 - 05, 2011.
27. National Seminar on Emerging Trends in Chemistry held at VHNSN College, Virudhunagar, July 28-29, 2011.
28. Fourth International Ground Water Conference held at Yadava College, Madurai, Sep, 27-30, 2011.
29. *2,2'- bipyridyl catalysed oxidation of benzaldehyde and substituted benzaldehydes by Quinolinium chlorochromate in aqueous and acetonitrile medium.* In the UGC Sponsored National Seminar On Emerging Trends in Chemistry held at CPA College, Bodinayakanur, 04-05th October 2012.
30. UGC Sponsored National Seminar On Futuristic Trends in Chemistry held at Sri Meenakshi Govt. College for Women, Madurai, 6th February 2013.
31. UGC Sponsored National Seminar On Frontiers in Chemistry held at The Madurai College, Madurai, 14-15th February 2013.

32. *Kinetics of oxidation of unsaturated alcohols by Isonicotinium Dichromate*. In the International Conference on Recent Advances in Textile and Electro Chemical Sciences – 2013 held at Alagappa University, Kariakudi, 21-23rd March 2013.
33. *Kinetics and mechanism of oxidation of cyclohexanol by Isonicotinium Dichromate*. In the Third National Conference on Advanced Functional Materials and applications (DRDO Sponsored) held at Kalasalingam University, Krishnankoil, 21-22nd March 2014.
34. UGC Sponsored National Seminar on Emerging Trends in Chemistry held at CPACollege , Bodinayakanur, 18-19th September 2014.
35. Ground Water Status in Maduai Distirct – A Pilot Study. In the UGC Sponsored International Conference on Solutions to Ecological Challenges : Multidimensional Perspectives held at Fatima College, Madurai, 13th December 2014.
36. UGC Sponsored National Seminar On Modern Trends in Chemistry held at Vivekanada College, Thiruvudagam, Madurai, 30-31st January 2015.
37. Kinetics and mechanism of oxidation of cyclohexanone by Isonicotinium Dichromate. In the UGC Sponsored National Conference On Frontiers Areas in Chemistry held at Thiagarajar College, Madurai, 26-27th February 2015.
38. Kinetics and mechanism of oxidation of benzaldehyde and sub. benzaldehyde by quinolinium chlorochromate. In the Fourth National Conference on Advanced Functional Materials and applications (CSIR Sponsored) held at Kalasalingam University, Krishnankoil, 02-03rd April 2015.
39. International Symposium on Emerging Trends in Bio-Chem-Nutraceuticals held at Fatima College, Madurai, 04th December 2015.
40. National Seminar on Recent Trends in Chemistry held at Fatima College, Madurai, 21st December 2016.
41. International Conference on Functional Materials (ICFM) at Thiagarajar College, Madurai, 7-8th September 2017.
42. International Conference on Nanomedicine (ICON-2019) at Madurai Kamaraj University, Madurai, 25-26th February 2019.
43. One day International Seminar on Emerging trends in Chemistry & Energy Science at Saraswathi Narayanan College, Madurai on 7th February 2020.

44. National Conference on Emerging trends in Chemistry (ETC) at Saiva Bhanu Kshatriya College, Aruppukottai on 13th April 2022.
45. Ultra Sound Assisted potassium phthalate catalyzed pyrazoline derivatives. In the RUSA 2.0 and TNSCST sponsored National Conference in Newer materials for energy and environmental applications held at Annamalai University, 22-23rd September 2022.
46. National Seminar on "Intellectual Property Rights" organized by IRRC held at Sourashtra College, Madurai, 14th October 2022.
47. 3rd National conference on Recent developments of chemistry in Engineering applications held at SRM Valliammai Engineering College, Chennai at 17th June 2023.
48. *Synthesis and biological activity of 6-(4'-substituted phenyl)-4-methyl -2-thioxo-1,2,3,6-tetrahydropyrimidine-5-carboxamides- a structure reactivity study.* International Conference on Biomaterials for Advanced Biological Applications (BABA-2024) held at Periyar University, Salem, 14th -16th February 2024.

List of Seminars / Conferences / Workshops/Webinar/e-quizz organized

S. No.	Topic (State / Nat'l / Int'l)	Position (Organizing Secretary/Convener)	Organized by Dept.	Date
1	"Emerging Trends In Chemistry" (ETC-2013)	Convener	Department of Chemistry, Sourashtra College, Madurai	09/03/2013
2	Allotropes in Industry	Organizing Secretary		23/02/2015
3	e-quizz on <i>Chemistry in Everyday life</i>	Convener		26/06/2020
4	One day International Webinar on Functionalized Nanomaterials and its Applications towards Photo/Electrochemical Biosensor.	Convener		18/02/2021
5	One day International Seminar on "Recent Trends in Frontier Areas of Materials and Macromolecules"	Organizing Chair		24/03/2023

Lectures / Talks given:

- ❖ Yadava College, Madurai, Topic: Catalysis on 01.02.2018.
- ❖ E.M.G.Yadava Women's College, Madurai, Topic: Catalysis on 29.09.2023.

Attended Orientation/Refresher/FDP/Other Programme

1. UGC Sponsored 28 days **Orientation Programme** attended at UGC-Academic staff college, Madurai Kamaraj University during 14.11.2007 to 11.12.2007
2. UGC Sponsored 21 days **Refresher Course** attended at UGC- Academic staff college, Madurai Kamaraj University during 03.11.2009 to 23.11.2009
3. UGC Sponsored 21 days **Refresher Course** attended at UGC- Academic staff college, Madurai Kamaraj University during 10.11.2010 to 30.11.2010.
4. 7 days **NSS Orientation Programme** attended at Avinashilingam Deemed University, Coimbatore during 03.02.15 To 09.02.15
5. Participated One day **Faculty Development Programme** on Management of Self- AHolistic approach organized by SCAAN & IQAC held on 29.08.2017 at Sourashtra College, Madurai.
6. Participated Fourteen days **Faculty Development Programme** on Materials Science and Nanotechnology, Organized by R.S.Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai during 03.08.2020 to 17.08.2020
7. Participated Seven days **Faculty Development Programme** on Contemporary Amelioration in Nanostructured materials, organized by Jeppiaar Engineering College, Chennai during 21.08.2020 to 27.08.2020
8. Participated One day Virtual **Faculty Development Programme** on Bioinformatics-Drug designing and Docking organized by Department of Bio-Chemistry, V.V.V. College, Virudhunagar during 27.02.2021
9. Participated Five days **Faculty Development Programme** on Advances in Chemical Research organized by Department of Science and Humanities and Centre for Faculty development, Dr.N.G.P.Institute of Technology, Coimbatore during 21.06.2021 to 25.06.2021.
10. Participated Six days International **Faculty Development Programme** on Innovative Trends in Science and Technology organized by the Department of Science and Humanities, M.Kumarasamy College of Engineering, Karur during 26.07.2021 to 31.07.2021

11. Participated Six days **Faculty Development Programme** on Advances in Analytical Techniques organized by the Department of Chemistry, SRM Institute of Science and Technology. Chennai during 30.08.2021 to 06.09.2021.
12. Participated Five days online **Faculty Development Programme** on Recent Advances in Analytical Research Techniques organized by the Department of Chemistry, Holy Cross College, Tiruchirappalli during 27.09.2021 to 01.10.2021.
13. Participated One week online **Faculty Development Programme** on Emerging Trends in applied chemistry. A step towards sustainable development organized by Department of Chemistry, SGT University, Gurugram, Delhi during 30.05.2022 to 04.06.2022.
14. Participated Five days **Faculty Development Programme** on pharmaceutical Innovations and Protection Strategies jointly organized by Seven Hills College of Pharmacy, Tirupathi and CSIR-Institute of minerals and materials, Bhuvaneshwar during 18.07.2022 to 22.07.2022.
15. Participated One day National level virtual **Faculty Development Programme** on Recent Advances in Chemical Sciences organized by Department of Chemistry, Thiagarajar College, Madurai held on 26.09.2022
16. Participated Five days **Faculty Development Programme** on Recent Advances in Chemical Sciences organized by Department of Chemistry, K.S.R College of Arts and Science for Women Tiruchengode during 27.11.2023 to 01.12.2023
17. Participated one day **Faculty Development Programme** on “Virtual Lab-Value added Learning” organized by NRCM Virtual Lab Nodal Centre, Narsimha Reddy Engineering College in collaboration with Amrita Vishwa Vidyapeetham, Kollam held on 06-12-2023.
18. Participated Six days **Faculty Development Programme** on Recent Advancements in Chemistry organized by Department of Chemistry, Easwari Engineering College, Chennai during 24.06.2024 to 29.06.2024.

Other activities / information / academic credentials you would like to mention:

1. *External examiner in Ph.D* public viva-voce (Govt. Arts College, Kumbakonam.
2. Additional & Chief Examiner in the Board of Chemistry - Major & Ancillary -Madurai Kamaraj University, Madurai
3. Examiner - Practical Examinations in various autonomous colleges and Madurai Kamaraj University, Madurai
4. Served as a NSS Programme Officer in the Year 2013-2016 at Sourashtra College, Madurai.