

Faculty Profile



Name : Dr. N. SATHYA
Designation : Assistant Professor
Address : Department of Chemistry
Chikkanna Government Arts College
Tirupur-02
Contact Number : 9786367093
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Date of Joining in Collegiate Education : 29.07.2015
Date of Joining in the Present College : 06.10.2015
Academic Profile :

Degree	Institute/College	University	Period
Ph.D.,	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore	Bharahiar	October 2011
M.Sc.,	Kongunadu Arts and Science College, Coimbatore	Bharahiar	April 2006
B.Sc.,	Kongunadu Arts and Science College, Coimbatore	Bharahiar	April 2004

Teaching Experience :

i) Total	:	YearsMonth
ii) UG	:	8 Years 07 Month
iii) PG	:	8 Years 07 Month

Name of the college	Position held	Period
PSG Arts and Science College, Coimbatore	Assistant Professor	15.6.2011- 31.3.2012
Kongunadu Arts and Science College, Coimbatore	Assistant Professor	18.6.2012 – 24.7.2015
Government Arts College for Women, Pudukkottai	Assistant Professor	29.07.2015 – 5.10.2015
Chikkanna Government Arts College, Tirupur	Assistant Professor	5.10.2015 – till date

Honors and Research Awards : Nil

Field of Interest :

- i) **Teaching** : Inorganic chemistry, Organic chemistry
ii) **Research** : Coordination and organometallic chemistry
iii) **Proficiency in instrumentation** : IR, UV-vis, Cyclic voltametry

Research Guidance

Guidance Number : 14284/A2/2014@ 28/07/2014

(If have more than one university, given them against university name)

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed/ongoing
1	M.Phil	S. JAYAPRIYA	Synthesis, Characterization, single crystal XRD, DNA binding and radical scavenging Activity of Co (II) and Cu (II) complexes containing triphenylphosphine with bidentate and tridentate Schiff base ligands.	Completed

Funded Projects : Nil

Membership in Professional Bodies : Nil

Research Publications :

i) **Research Papers** : attach separate paper list

ii) **Book/Book Chapters** : Nil

iii) **Patent** : Nil

National and International Conferences : attach separate list

- i) **Participated**
 ii) **Paper Presented**
 iii) **Poster Presented**

Conference/Seminars Organized : separate list attached

Workshop attended : separate list attached

Resource Person/Invited Lectures : Nil

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation Programme	Bharathiar University, Coimbatore	General	16.12.2016 - 12.01.2017
Refresher Course	Madurai Kamaraj University, Madurai.	Value Education	18.12.2018- 07.01.2019
Refresher Course	Aligarh Muslim University, Aligarh	Teaching Education	03.08.21- 16.08.21
Refresher Course	Ramanujan College, Delhi	Research Methodology	22.09.2022 – 06.10.2022
State level FDP	Kongunadu Arts and Science College, Coimbatore	General	11 th August 2012
National level FDP	Kongunadu Arts and Science College, Coimbatore	General	17 th August 2013
National level FDP	Kongunadu Arts and Science College, Coimbatore	General	27 th September 2014

Academic Activities :

- i) **Subject Handled** : Organic Chemistry, Inorganic Chemistry, General Chemistry, Textile Chemistry, Water pollution, Chemistry Practicals.

ii) **Class Advisor** : UG 2016 - 2019 Batch

iii) **Special Coaching** : Power point teaching

iv) **Student Community Beneficial Activities**

v) **Co-curricular and extracurricular activities:** Bharathanatyam dance

Professional Activities : Nil

i) **Reviewer**

ii) **Board of Studies/UR** : Kongu nadu Arts and Science College,
Coimbatore, Board of Studies member

iii) **Examiner/Scrutiny** : Nil

iv) **Senate/Syndicate** : Nil

National/ International Collaborators : Nil

(Annexure -1)

Research publications:

1. "Synthesis, characterization and biological evaluation of Ru(III) mercaptoprimidine Schiff base complexes", S. Jone Kirubavathy, J. Saranya, **N.Sathya**, I. V. M. V. Enoch, P. Mosae Selvakumar, S. Chitra, Applied organometallic Chemistry, 31, 11 (2017)
<https://doi.org/10.1002/aoc.3760>
2. "Catalytic oxidation and C-C coupling reactions of new ruthenium(III) Schiff base complexes containing PPh₃ or AsPh₃ co-ligands". **N.Sathya**, A. Manimaran, G. Raja, P. Muthusamy, K. Deivasigamani, and C. Jayabalakrishnan, Transition Metal Chemistry, 34, 7 (2009).
<https://link.springer.com/article/10.1007%2Fs11243-008-9144-1>.
3. "Synthesis, spectroscopic, redox, catalytic and antimicrobial properties of some ruthenium(II) Schiff base complexes", N. Thilagavathi, A. Manimaran, N. Padma Priya, **N. Sathya** and C. Jayabalakrishnan, Transition Met Chem, 34, 725 (2009)
<https://link.springer.com/article/10.1007/s11243-009-9254-4>
4. "Synthesis, characterization, electrochemical, catalytic and antimicrobial activity studies of hydrazone Schiff base ruthenium(II) complexes", N. Thilagavathia, A. Manimaran, N. Padma Priya, **N. Sathya** and C. Jayabalakrishnan Applied organometallic Chemistry, 17, (2009)
<https://doi.org/10.1002/aoc.1601>

5. "Catalytic and antimicrobial studies of binuclear ruthenium(III) complexes containing bis-*b*-diketones", N. Padma Priya, S. Arunachalam, **N. Sathya**, V. Chinnusamy and C. Jayabalakrishnan, *Transition Met Chem*, 34,437 (2009)
DOI: [10.1007/s11243-009-9214-z](https://doi.org/10.1007/s11243-009-9214-z)
6. "Spectrometric, catalytic and antimicrobial studies of mononuclear Ru(III) Schiff base complexes" **N. Sathya**, P. Muthusamy, N. Padmapriya, G. Raja, K. Deivasigamani and C. Jayabalakrishnan, *Journal of Coordination Chemistry*, 62, 3532 (2009).
<https://doi.org/10.1080/00958970903089676>
7. "Ruthenium(II) complexes incorporating tridentate Schiff base ligands: Synthesis, spectroscopic, redox, catalytic and biological properties" **N. Sathya**, G. Raja, N. Padma Priya and C. Jayabalakrishnan, *Applied Organometallic Chemistry*, 24, 366 (2010).
<https://doi.org/10.1002/aoc.1621>
8. "Tetradentate Schiff-base ruthenium(III) complexes containing triphenylphosphine/arsine as coligands: study of physico-chemical, spectrometric, catalytic, and biocidal activities," N. Padma Priya, S. Arunachalam, **N.Sathya** and C. Jayabalakrishnan, *Journal of Coordination Chemistry*, 26 (2010).
<https://doi.org/10.1080/00958971003793241>
9. "Microbial Assay of Ruthenium(II) Thiosemicarbazone Complexes: Synthesis, Spectral Characterization, and Electrochemistry," G. Raja , **N. Sathya** , C. Jayabalakrishnan, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 41, 716 (2011).
<https://doi.org/10.1080/15533174.2011.568809>
10. "Spectroscopic, catalytic, and biological studies on mononuclear ruthenium(II) ONSN chelating thiosemicarbazone complexes," G. Raja, **N. Sathya**, C. Jayabalakrishnana, *Journal of Coordination Chemistry* 18 (2011).
<https://doi.org/10.1080/00958972.2011.556721>
11. "Binuclear ruthenium(II) Carbonyl complexes containing N₂O₂ donors and their catalytic and biological activities", **N. Sathya**, G. Raja and C. Jayabalakrishnan, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 41, 81 (2011).
<https://www.tandfonline.com/doi/abs/10.1080/15533174.2010.522883>

(Annexure -1)

National and International Conferences

Paper Presented:

1. National seminar on current trends in chemistry held at cochin university of science and technology during 18,19 january 2008.
2. National conference on Recent advances in Metalloorganic chemistry held at periyar university, Salem 16,17 October 2008
3. National conference on Recent Advance in Electroanalytical Techniques held at Gandhigram Rural Institute, Gandhigram, Dindigul 25,26 February 2010.
4. UGC & TANSCHHE sponsored national conference on Recent Developments in Green chemistry held at Kongunadu Arts and Science College 18,19 December 2013.
5. DST- Sponsored national level conference on Advance development of Medicinal chemistry in target drug design held at Kongunadu Arts and Science College 11,12September 2014.
6. AICTE - Sponsored Second international level conference on Energy, Environment and Advanced Materials for a Sustainable Future held at Kongu Engineering College 15,16 July 2021.
7. One day national level conference on Innovation in Chemical Science & its Research Approach organized by chemistry Department of Vellalar College for Women 08 April 2022.

National and International Conferences

Participated:

1. National conference on Recent Advances in Chemistry held at Periyar University Salem during 1,2 march 2007.
2. State level seminar on Frontiers in Nanoscience held at Kongunadu Arts and Science College 8 January 2008.
3. NAAC sponsored state level conference on Innovative Teaching-Evaluation methodology in Higher Education system held at Kongunadu Arts and Science College on 27 march 2013.
4. UGC sponsored two-day national level conference on Recent trends in Medicinal chemistry held at Government Arts college, Coimbatore on 19, 20 February 2015.

Conference/Seminars Organized

1. Organized **National Webinar** on “Polymers – A century of Advancement” on 21.7.2020 at Chikkanna Government Arts College, Tirupur.

2. Organizing Member in **National Webinar** on “Advanced carbon materials for energy storage” on 25.7.2020 at Chikkanna Government Arts College, Tirupur.
3. Organizing Member in **National Webinar** on “Exciting photo chemistry” on 31.7.2020 at Chikkanna Government Arts College, Tirupur.
4. Organizing Member in **National Webinar** on “Orientation program for CSIR-UGC NET” Aspirants on 23.7.2020 at Chikkanna Government Arts College, Tirupur.
5. Organizing Member in **National Webinar** on “Nonprecious metal complexes for sustainable catalysis, optoelectronic and biology application” on 29.7.2020 at Chikkanna Government Arts College, Tirupur.
6. Organized TNSCST sponsored **National Seminar** on “Anti-cancer drugs from Nano composite materials” on 9.4.2021 at Chikkanna Government Arts College, Tirupur.

Workshop attended:

1. 1D and 2D NMR Spectroscopy and their application, one day work shop on Sri Ramakrishna Mission Vidyalaya college of Arts and Science 13 September 2010.
2. Workshop on Micro Scale Experiments in Chemistry organized by PSGR Krishnammal College for Women held on 14 August 2012.
3. Two days national level workshop on Hand made Soap and Cosmetics held at Kongunadu Arts and Science College on 4,5 October 2013.
4. Science Academies Lecture workshop on Spectroscopic techniques and Application to chemical structure Elucidation organized by Nirmala College for Women on 5, 6 December 2014.