

Thiruvalluvar Government Arts College, Rasipuram

DEPARTMENT OF CHEMISTRY

STAFF PROFILE

ABSTRACT



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| 1. Name | : Dr. R. PRABU |
| 2. Designation | : Assistant Professor |
| 3. Education Qualification | : M.Sc.,M.Phil.,Ph.D |
| 4. Teaching Experience | : 14 Years 6 Months |
| 5. Area of Research | : Inorganic Chemistry |
| 6. University Guideship | |
| Approval No | : Ph.D Guide approval / 02267 / 2018, |
| | Dated: 14.05.2018 |
| 7. Fellowship Awarded | : 1.Awarded as Project Fellow from
University Grants Commission (UGC)
New Delhi, India.(June 2008 – May 2011). |
| 8. Research Experience | : Project Associate in Sophisticated
Analytical Instrument Facility (SAIF),
Indian Institute of Technology, Madras,
Chennai – 600 036, India. (September
2006 - May 2008). |
| 9. Minor/Major Research Project | : Nil |
| 10. Research Paper Published | : International: 22 ; National: Nil |
| 11. Seminar/ Conference/ Workshops | : 11 |
| 12. Journals Review | : International: Nil ; National: Nil |
| 13. Books Published | : Nil |

BIO - DATA

Name : **Dr. R. PRABU**
 Designation : Assistant Professor
 Father's Name : N. Raju
 Date of Birth : 05-07-1980
 Nationality : Indian
 Religion : Hindu
 Permanent Address : 2/320, Bazaar Street,
 Seventhippatty (PO),
 Thottiam (VIA), Namakkal – DT
 Pin: 621215, Tamilnadu.
 Phone No : Res :
 Off : 04287 – 231802.
 Cell : 09600012208
 E-Mail ID : rprabu09@gmail.com
 Languages Known to Read / Write : Tamil/English

EDUCATIONAL QUALIFICATION:

Degree	University	Month & Year of Passing	Class/ Grade
UG	University of Madras	April 2000	II
PG	Bharathidasan University	Nov 2004	I
M.Phil	University of Madras	Aug 2007	I
Ph.D	University of Madras	Aug 2012	

Date of Joining : In to Collegiate Service 25-01-2012
 : In to Government Service 27-07-2015

Teaching Experience : 14 Years 6 Months

S. No.	From DD/ MM / YY	To DD/ MM / YY	Name of the Institution	Total Years
1	25-01-2012	25-07-2015	Karpaga Vinayaga College of Engineering and Technology, Kancheepiram Dt.	3 year 6 month
2	27-07-2015	15-06-2017	Government Thirumagal Mill's College, Gudiyattam, Vellour - 632602	1 Years 11 month
3	16-06-2017	Till date	Thiruvalluvar Govt. Arts College, Rasipuram.	7 Years 5 Month

Research Experience : 11 Years

Topic of Research : Bio Inorganic Chemistry

Research Guidance :

M.Phil - Awarded : Nil

M.Phil - Ongoing : Nil

Ph.D - Awarded : Nil

Ph.D - Ongoing : 2

S.No	Name of the Course	Subject	Academic Staff College, University	Duration	Date
1	Orientation Course	Chemistry	UGC - Academic Staff College, Sri Venkateswara University, Titupati.	27 days	09.10.2017-04.11.2017
2	Refresher Course	Chemistry	UGC-HRDC, Bharathidasan University, Thiruchirappalli	14 Days	20.09.2019 – 03.10.2019
3	Refresher Course	Chemistry	UGC-HRDC, Sambalpur University, Odisha.	14 Days	02.12.2021 – 15.12.2021
4	Other Programm Faculty development Program (FDP)	Design Develop and Deliver online Course Through MOODLE Platform	Tamil Nadu State Council for Higher Education (TANSCH), Chennai	2 Days	15.05.2020–16.05.2020
5	Refresher Course	Chemistry	UGC-HRDC Sambalpur University, Odisha	14 days	02.12.2021 To 15.12.2021
6	Refresher Course	Chemistry	Teaching Learning Centre, Ramanujan College, University of Delhi	15 days	30.06.2023 To 14.07.2023
7	Refresher Course	Chemistry	Manipur University, Imphal	14 days	27.10.2025 to 08.11.2025

Research Scholar Details

S. No	Name of the Research Scholar	Year of Joining	Title of the Project	Awarded/ Ongoing	Remarks
1.	R. Sathya	2018	-	On going	-
2.	M. Saranya	2023	-	On going	-

Member in Academic/ Editorial Board/ Reviewer in Journals : Nil

List of Publication : 22

1. Electrochemical, Catalytic and Antimicrobial activity of N-Functionalized Tetraazamacrocyclic Binuclear Nickel(II) Complexes.
R. Prabu, A. Vijayaraj, R. Suresh, R. Shenbhagaraman, V. Kaviarasan and V. Narayanan.,
Spectrochim. Acta, Part A: Mol. Biomol. Spectrosc., 78, (2011), 601-606,
2. New Unsymmetrical Dinuclear Copper(II) Complexes of Trans-Disubstituted Cyclam Derivatives: Spectral, Electrochemical, Magnetic, Catalytic, Antimicrobial, DNA Binding and Cleavage Studies.
R. Prabu, A. Vijayaraj, R. Suresh, L. Jagadish, V. Kaviarasan and V. Narayanan.,
Bull. Kor. Chem. Soc., 32, (2011), 1669-1678,
3. Synthesis, characterization, catalytic, antimicrobial, DNA binding and cleavage studies of N-Functionalized tetraazamacrocyclic binuclear copper(II) complexes.
R. Prabu, A. Vijayaraj, R. Suresh, R. Shenbhagaraman, V. Kaviarasan and V. Narayanan.,
J. Iran. Chem. Soc., 11, (2014), 825-837,
4. Synthesis, Spectral, Electrochemical, Magnetic and Biological Studies of Tet-a Based Binuclear Mn(III) Complexes.
R. Prabu, L. Vijayalakshmi and V. Narayanan.,
Adv. Mater. Res., 584, (2012), 386-390,
5. Synthesis, Characterization, Catalytic, and Biological Studies of Macrobicyclic Binuclear Nickel(II) Complexes of 1,8-difunctionalized Cyclam Derivatives.
R. Prabu, A. Vijayaraj, R. Suresh, R. Shenbhagaraman, V. Kaviarasan and V. Narayanan.,
J. Coord. Chem., 66, (2013), 206-217,
6. A New Acyclic Schiff-base Copper(II) Complexes and their Electrochemical, Catalytic and Antimicrobial Studies.
A. Vijayaraj, **R. Prabu**, R. Suresh, C. Sivaraj, N. Raaman and V. Narayanan.,
J. Coord. Chem., 64, (2011), 637-650,
7. New Acyclic Schiff base Nickel(II) Complexes and their Electrochemical, Kinetic and Antimicrobial Studies.

- A.Vijayaraj, **R. Prabu**, R. Suresh, Ganapathi Jayanthi, Johnpaul Muthumary and V. Narayanan.,
Synth. React. Inorg. Metal-Org. nano-Met. Chem., 41, (2011), 963-972,
8. Fabrication of α -Fe₂O₃ Nanoparticles for the Electrochemical Detection of Uric Acid.
 R. Suresh, **R. Prabu**, A. Vijayaraj, K. Giribabu, A. Stephen and V. Narayanan.,
Synth. React. Inorg. Metal-Org. nano-Met. Chem., 42, (2012), 303-307,
 9. Facile synthesis of Cobalt Doped Hematite Nanospheres: Magnetic and their Electrochemical Sensing Properties.
 R. Suresh, **R. Prabu**, A. Vijayaraj, A. Stephen and V. Narayanan.,
Mater. Chem. Phys., 134, (2012), 590-596,
 10. Poly(anthranilic acid) Microspheres: Synthesis, Characterization and their Electrocatalytic Properties.
 R. Suresh, **R. Prabu**, A. Vijayaraj, K. Giribabu, A. Stephen and V. Narayanan.,
Bull. Kor. Chem. Soc., 33, (2012), 1919-1924,
 11. Synthesis, Crystal structure, magnetic, DSS Cell, Lifetime Measurement, Electrochemical, Catecholase Activity and antimicrobial Studies of Mono and Heterobinuclear Cryptates.
 A.Vijayaraj, **R. Prabu**, R. Suresh, S. Sundaramoorthy, D. Velmurugan and V. Narayanan.,
J. Iran. Chem. Soc., 10, (2013), 63-76,
 12. Spectral, Electrochemical, Fluorescence, Kinetic and Antimicrobial studies of Acyclic Schiff-base Gadolinium(III) Complexes.
 A.Vijayaraj, **R. Prabu**, R. Suresh, R. Sangeetha Kumari, V. Kaviyarasan and V. Narayanan.,
Bull. Kor. Chem. Soc., 33, (2012), 3581-3588,
 13. Spectral, Electrochemical, Fluorescence, Life time Measurements and Dye Sensitized Solar Cell Studies of Mono and Hetero Binuclear Cryptates.
 A.Vijayaraj, **R. Prabu**, R. Suresh, S. Manoharan, P. Anandan and V. Narayanan.,
Turkish J. Chem., 37, (2013), 344-357,
 14. Synthesis of New Acyclic Schiff-base Oxovanadium (IV) Complexes and their Electrochemical, Catecholase and Antimicrobial Studies of Minimum Inhibitory Concentration.
 A.Vijayaraj, **R. Prabu**, R. Suresh, N. Mathivanan and V. Narayanan.,

- Synth. React. Inorg. Metal-Org. nano-Met. Chem.*, 45, (2015), 1647-1652,
15. Synthesis, Characterization and antimicrobial activities of Nickel(II) and Copper(II) Schiff-Base complexes.
M.Rajasekar, S.Sreedaran, **R. Prabu**, V.Narayanan, R. Jegadeesh, N.Raaman, A. Kalilur Rahiman.,
J. Coord. Chem., 63, (2010), 136-146,
 16. Cadmium Sulphide Nanorods: Synthesis, Characterization and Their Photocatalytic Activity.
K. Giribabu, R. Suresh, R. Manigandan, A. Vijayaraj, **R. Prabu** and V. Narayanan.,
Bull. Kor. Chem. Soc., 33, (2012), 2910-2916,
 17. Fabrication of Iron Oxide Nanoparticles: Magnetic and Electrochemical Sensing Property.
R. Suresh, A. Vijayaraj, K. Giribabu, R. Manigandan, **R. Prabu**, S. Stephen, E. Thirumal and V. Narayanan.,
J. Mater. Sci. Mater. Electron., 24, (2013), 1256-1263,
 18. α -Fe₂O₃ Nanoflowers: Synthesis, Characterization, Electrochemical sensing and Photocatalytic property.
R. Suresh, K. Giribabu, R. Manigandan, A. Vijayaraj, **R. Prabu** A. Stephen, and V. Narayanan.,
J. Iran. Chem. Soc., 11, (2014), 645-652,
 19. Spectral, Magnetic, Electrochemical, Photochemical, DNA binding and Cleavage, Catalytic and Biological Studies of 2,2'-Bipyridyl based d-f Hetero Binuclear Gd(III) and Cu(II) Complexes. DOI: 10.7598/cst2013.006,
A.Vijayaraj, **R. Prabu**, L. Vijayalakshmi and V. Narayanan.,
Chem. Sci. Trans., 2, (2013), S207 - S219,
 20. Mixed ligand complexes of nickel(ii), copper(ii) and zinc(ii) with nicotinanilide and thiocyanate
A. Maria kulandai raja balan, R. Francis nicholas ashok1,
M. Vasanthi, **R.Prabu** and A. Paulraj
International journal of life science and pharama research
Vol 3, Issue 2, (L 67-75) 2013
 21. Complexes of Ni(II), Cu(II) and Zn(II) Benzoates with Nicotinanilide
A. Maria Kulandai Raja Balan, M. Vasanthi, **R. Prabu**,
A. Paulra, T. Ramachandramoorthy

International Journal of Modern Chemistry, 2013, 4(2): 66-78.

22. Synthesis, characterization, crystal structure and biological studies on nicotinanilide based nickel(II), copper(II) and zinc(II) complexes
A. Maria Kulandai Raja Balan , R. Francis Nicholas Ashok M. Vasanthi **R. Prabu**, A. Paulraj
Inorganica Chimica Acta 408 (2013) 103–108

List of Seminars/ Conferences/ National/ International:

1. International Conference in Advances in New Materials, Department of Inorganic Chemistry, University of Madras, 20&21 June 2014.
Synthesis, Characterization and Biological Studies of Heterobinuclear Cu(II)-Mn(II) Complexes
R. Prabu, and V.Narayanan.
2. National Conference on Emerging Trends in Chemical Research, Department of Chemistry, Annamalai University, Annamalainagar, October 17 & 18, 2008. N-Functionalized Cyclam based Trinuclear Copper (II) and Nickel (II) Complexes as potential Antimicrobial Agents.
R. Prabu, S. Sreedaran and V.Narayanan.
3. National Conference on Recent Advances in Materials and Methods of Chemistry, RAMMC 2010, Department of Chemistry, SRM University, Chennai, February 2nd 2010. Macrocyclic Binuclear Complexes of Cu(II) and Ni(II): Synthesis, Electrochemical and Catalytic Studies.
R.Prabu, L.Vijayalakshmi and V.Narayanan.
4. National Conference on Emerging Trends in Biological Research (NCEBR'11), University of Madras, Chennai, February 21st and 22nd , 2011. Antimicrobial Activity of N-Functionalized Cyclam Based Binuclear Nickel(II) Complexes.
R. Prabu, A. Vijayaraj, L. Vijayalakshmi and V. Narayanan.
5. National Conference on New Renaissance in Chemical Research (NCNRCCR-2011), SRM University, Chennai, March 04, 2011. Synthesis, Characterization and biological studies of N-Functionalized Tetraaza Macrocyclic Ligands and their Copper(II) Complexes.
R. Prabu, L. Vijayalakshmi and V. Narayanan.
6. Modern Trends in Inorganic Chemistry-XIV [MTIC-XIV], School of Chemistry, University of Hyderabad, Hyderabad, December 10-13, 2011. Synthesis, spectral, Electrochemical, magnetic and Biological Studies of Binuclear Mn(III) Complexes.

R. Prabu, L. Vijayalakshmi and V. Narayanan.

7. National Symposium on Recent Advances in Chemistry (NSRAC-2013),
7. Pondicherry University, Pondicherry, March 22-23, 2013. Synthesis, Spectral,
Electrochemical, Magnetic and Biological Studies of Heterobinuclear Cu(II)-
Ni(II) Complexes.

R. Prabu, L. Vijayalakshmi and V. Narayanan.

8. International Conference on Current Trends in Chemistry and Biochemistry,
ICCTCB-2009, Departments of Chemistry and Biochemistry, Central
College Campus, Bangalore University, Bangalore, December 18–19, 2009.
Novel macrocyclic binuclear complexes of Cu(II) and Ni(II): Synthesis,
Electrochemical and Catalytic Studies.

R. Prabu, L. Vijayalakshmi, V. Narayanan.

9. Proceedings of the 46th Annual Convention of Chemists and International
Conference on Recent Trends in Chemical Sciences, Chemistry Division, School
of Science and Humanities, VIT University, Vellore, December 02–06, 2009.
Novel macrocyclic binuclear copper (II) complexes: Synthesis, electrochemical,
catalytic and antimicrobial activities.

R. Prabu, L. Vijayalakshmi, V. Narayanan.

10. International Conference on Functional Materials (FM 2008), Controlled
Synthesis, Discrete Molecular Processes and Engineering, Department of
Chemistry, Indian Institute of Technology Madras, Chennai, November 27–29,
2008.
Novel macrocyclic binuclear complexes of Cu(II) and Ni(II): Synthesis,
Electrochemical and Catalytic Studies.

R. Prabu, L. Vijayalakshmi, V. Narayanan.

11. International Conference on Nanoscience and nanotechnology (ICNSNT 2006)
Centre for Nanoscience and Nanotechnology, University of
Madras, August 26–28, 2006.
Tiny Porphyrin Tubes Developed by New Nanodevices.

R. Prabu, K. Rajesh, V. Narayanan.

Books Published: Nil

Seminar and Work shop organized: Nil

Special and Guest Lectures Delivered: Nil