

| | | |
|---|---|---|
| Name of the Principal | Dr.V.Rama |  |
| Residential Address | Old No 3/1 New No 6, C Colony, Perumalpuram, Tirunelveli -7 | |
| Contact Nos. | Mobile : 9488663040 Email : rama242002@gmail.com | |
| Gender | Female | |
| Community | BC | |
| Date of Birth and Age | 24.06.1962 | |
| Date of joining the present post | 21.09.2022 | |
| Date of Retirement | 23.06.2024 | |

I. Educational Qualifications: (completed only)

| Programmes | Discipline | Specialization Area | Year of Passing/ Award | Name of the College | Name of the University | % of Marks / Grades obtained | Class obtained |
|------------|------------|---------------------|------------------------|---------------------|----------------------------|------------------------------|----------------|
| UG | Chemistry | Chemistry | 1982 | Fatima College | Madurai Kamaraj University | 82 | I |
| PG | Chemistry | Inorganic Chemistry | 1984 | School of Chemistry | Madurai Kamaraj University | 68 | I |
| M. Phil. | Chemistry | Organic Chemistry | 1991 | School of Chemistry | Madurai Kamaraj University | 73 | I |
| Ph. D | Chemistry | Organic Chemistry | 2012 | School of Chemistry | Madurai Kamaraj University | | I |

II. Academic Experience:

| Name of the College | Whether Govt/Aided/S.F . | Designation | Joining Date | Relieving Date | Experience | | |
|-----------------------------------|--------------------------|-----------------|--------------|----------------|------------|--------|------|
| | | | | | Year s | Months | Days |
| Sarah Tucker College (autonomous) | Aided | Asst. Professor | 07.12.1984 | 05.02.1985 | 0 | 2 | 1 |

| | | | | | | | |
|---|---------|------------------------------|------------|------------|-------|----|----|
| Sarah Tucker College (autonomous) | Aided | Asst. Professor | 03.07.1986 | 30.08.1986 | | 1 | 28 |
| Sarah Tucker College (autonomous) | Aided | Asst. Professor | 01.09.1986 | 31.08.1993 | 7 | | |
| Sarah Tucker College (autonomous) | Aided | Lecturer Senior Scale | 01.09.1993 | 26.07.1998 | 5 | 0 | 25 |
| Sarah Tucker College (autonomous) | Aided | Lecturer Selectrion Grade | 27.07.1998 | 31.12.2005 | 7 | 5 | 4 |
| Sarah Tucker College (autonomous) | Aided | Associate Professor | 01.01.2006 | 30.06.2022 | 16 | 6 | 0 |
| Wavoo Wajeeha College of Arts and Science | Unaided | Principal | 21.09.2022 | Till date | | | |
| | | | | | Total | 36 | 3 |
| | | | | | | | 0 |

III. a. Title of Ph.D. Thesis

: Organic Reactions in Organized and Nonconventional Media

**b. Faculty /Discipline/Subject in
which Ph.D. was awarded**

: Chemistry

IV. a. Details of Ph.D. scholars (completed):

| S. No | Name of the Scholar | Register Number | Year of completion | Name of the University |
|-------|----------------------|-----------------|--------------------|--------------------------------------|
| 1 | S. Jebastin Andrews | 11703 | 2018 | Manonmaniam Sundaranar University |
| 2 | T. Clarina | 11086 | 2019 | Manonmaniam Sundaranar University |
| 3 | G. R. Priya Dharsini | 11243 | 2022 | Manonmaniam Sundaranar University |
| 4 | A. Neela | 11531 | 2021 | Manonmaniam Sundaranar University |
| 5 | P. Chandra Menaga | 11420 | 2022 | Manonmaniam Sundaranar University |
| 6 | P. Muhambihai | 11767 | 2023 | Manonmaniam Sundaranar University |

b. Details of Ph. D scholars (ongoing):

| S. No | Name of the Scholar | Register Number | Date of Registration | Name of the University |
|-------|---------------------|-----------------|----------------------|-----------------------------------|
| 1. | M. Muthu Kathija | 17211242032011 | August 2017 | Manonmaniam Sundaranar University |

Research Guidance:

- ✓ Ph D completed - 6
- ✓ Ph D in progress - 1
- ✓ M.Phil Completed - 19

C. Details of Research projects:

| S. No. | Title of the Project | Name of the Funding Agency | Amount sanctioned | Amount Received | Project Period |
|--------|--|---|-------------------|-----------------|----------------|
| 1 | Synthesis of Highly Energetic Gas Storage Materials and its Application | UGC File No: F.NO:4-4/2015-16(MRP/UGC-SERO) | 2,60,000 | 65,000 | 2 |
| 2 | Selectivity and Catalysis in Organic Reactions Utility of Solid Acid Catalysts and Non Conditional Reaction Conditions Towards “Green Chemistry” | UGC File no.: MRP-398/04 (UGC-SERO): LINK NO: 1398.0 | 68,000 | 2,25,000 | 2 |

➤ TNSCST Student Project

Development of reflexivity studies on β -cyclodextrin conjugated with DOTA-Gd moieties as MRI contrast agents, Students Project MS-030, 2018

➤ TNSCST Student Project

Purification of medical waste water containing heavy metals such as Gd/Hg modified hydrotalcites as efficient recyclable adsorbents, Students Project PS 033, 2020

D. Publications:**Editor**

- ✓ New Advances in Chemistry and Materials (ICNCM -16) ISBN: 978-93-5258-236-5
- ✓ Food Chemistry ISBN: 978-93-84734-76-3
- ✓ International Conference on Materials and Drug Chemistry 14 Published on line
- ✓ <http://www.theijst.comwww.internationaljournalcorner.com> Volume 2 Issue 10
- ✓ (Special Issue), October Issue, 2014, ISSN 2321 919X.

E. Article Published in Book

| Book | Article |
|--|---|
| 1. Advanced Materials & Its Applications Publisher : Macmillan, India Ltd,(Icama-2011), (Isbn – Corp 000187) | 1. Synthesis of clay encapsulated Nickel nanoparticles and their characterization 2. Solvothermal synthesis of ZnOnanopowder and the effect of role of anion |
| 2. Proceedings of International Conference on Research and Development Prospection Engineering and Technology(ICRDPET-2013) , ISBN No- 978-93-84893-27-9 | 3. Synthesis and characterization of Silver Bionanocomposite by green reduction method, 2013 , March 29 & 30 |
| 3. Proceedings of the National Conference on UGC Sponsored National Conference on Chemistry for Sustainable Energy, Clean Environment and health (CEEH), Organized by Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India on 21 st & 22 nd Jan, 2015 ISBN : 978-93-81402-17-7 | 4. Solid state synthesis, characterization and biological activities of silver complexes of 4,4-diaminophenylsulphone and its Schiff bases. Pages Nos 79-82 5. Facile synthesis of metal selenide nanoparticles from metal cinnamatehydrazinate complex, Pages Nos 83-86 |
| 4. Proceedings of International Conference on Applied Science, Mathematics, English and its Application – 2015, on May 2015 8th& 9th organized by E.G.S.Pillay Engineering College, Naganattinam Tamilnadu India | 7. Solvothermal synthesis of copper oxide nanoparticles |

V Administrative/other Experience:

| Name of the Organisation | Designation | Nature of Work | Joining Date | Relieving Date | Experience | | |
|-----------------------------------|-------------------------------|--|--------------|----------------|------------|--------|------|
| | | | | | Years | Months | Days |
| Sarah Tucker College (autonomous) | Head of the Dept of Chemistry | All Dept works | 2013 | 2022 | 9 | | |
| | Autonomy Coordinator | Assisting IQAC - Academic work Autonomous status & NAAC Accreditation | 2015 | 2022 | 7 | | |
| Sarah Tucker College (autonomous) | Principal- In Charge | Assisting Principal all academic work | 2015 | 2022 | 7 | | |
| | | | | Total | 23 | | |

Orientation & Refresher Course Attended

| Title of the Course | Venue | Date |
|----------------------------|---|--------------------------------|
| Orientation Programme | Academic Staff College Madurai Kamaraj University | 21-11-1988 to 19-12-1988 |
| Refresher Course | Academic Staff College Madurai Kamaraj University | 23-10-1996 to 14 -11- 1996 |
| Refresher Course | Avinashlingam Institute for Home science and higher education for women, CBE. | 21 – 1- 1998 to 17 – 2- 1998 |
| Refresher Course | Academic Staff College Madurai Kamaraj University | 15 -11 – 2000 to 5 – 12 – 2000 |

Guide ship:

- Recognized guide for M. Phil & Ph. D of Manonmaniam Sundaranar University, Tirunelveli, MSU; No: R5/2013.
- Recognized guide for M. Phil of Mother Teresa University, Kodaikonal

Selected Professional Activities:

- Chemical Research Society of India (Life Member- LM 562)
- American Chemical Society, membership No: 30379457 (for 4 years from 2012.)
- Faculty Club of Tirunelveli (Regn no: 89/2007)

Co-curricular Activities:

1. Scientific Advisory Committee

- Served as a Scientific Advisory Committee member in organizing “National conference I & II on ‘Advanced Research trends in Chemistry’ on ‘6th& 7th March 2015’, 2’0th& 21st’ January2012, Department of chemistry, Einstein College of Engineering, Tirunelveli-627012 and National conference on Nano science & Nanotechnology-Organic electronics-A new science in display technology spin electronics on, on 11th Oct 2007, at Sarah Tucker College with Faculty Club Tirunelveli.

2. Resource Person

- Chief Guest – for Chemistry Association - delivered a lecture on 31st August 2016-‘Nano Technology’ at St. John’s College, Tirunelveli, on 31st August 2017-‘Green Chemistry & Nano Science’ at Popes College, Sawyerpuram, on 27.02.2018 -‘Insights towards Green Chemistry’ at The MDT Hindu College, - on 24.09.2019 – ‘Chemistry & Enterprisers’ on at Kumara Gurupara Swamigal Arts College, Padmanabamangalam and on 27.01.2018 - a motivational talk on ‘SMART YOUTH’ for Hostel Day celebration at Fatima College, Madurai.

- Key Note Speaker on the topic ‘Green Chemistry’ at National conference on ‘Advanced Research trends in Chemistry’ on 6th& 7th March 2015” Einstein College of Engineering, Tirunelveli-627012
- Shared an academic Session, on ‘Carbon & Its Frame Works’ in the State level Seminar of ‘Future Trends in Nanotechnology’, on 10.02.2017 at Aditanar College of Arts & Science, Tiruchendur and on ‘Clean World’ in the National Seminar’ on Recent Developments in Chemistry RDC-17’ on 20/2/2017 and delivered a guest lecture on “Metal Organic Frame Works(MOFs) on 11.09.2014 at Sadakathullah Appa College, Tirunelveli.

3. **Served as subject expert** to the selection committee for the selection of candidates under Faculty Development Programme, UGC XII Plan (2012-2017), at The Madurai Diraviyam Thayumanavur Hindu College, Tirunelveli-10 on 01.10.2014.

4. **Service rendered to Universities /other colleges/STC**

- ❖ Additional Examiner for PG Valuation at MS University & Sadakathullah Appa College, St. Xavier’s College Tirunelveli.
- ❖ External Examiner for Conduct of Practical Examination for UG & PG at Sadakathullah Appa College& Sarah Tucker College Tirunelveli.
- ❖ Question Paper setter for Popes College, Sadakathullah College & St. Xavier’s College
- ❖ External Examiner for UG/PG/M. Phil dissertations & Viva-voce—ANJA College, Sivakasi
- ❖ Chief Examiner for PG Valuation at Sarah Tucker College Served as an expert and conducted External Academic Audit at Sri Parasakthi College for women, Courtallam & TDMNS College Kallikulam
- ❖ Acted as Subject expert in Screening cum Evaluation Committee member for St. Xavier’s College Tirunelveli, Sri. Paramakalyani College, Alwarkurichi & TDMNS College, Kallikulam on 23.09.2021, 03.03.2022 & 02.06.2022 respectively.
- ❖ In-service to School Teachers –
 - About 147 teachers benefitted at Sarah Tucker HSSTirunelveli-2, on 19.06.2019 & 20.06.2019. Sponsored by **District Institute of Education and Training, Munanjipatti**, Tirunelveli District.
 - On 23rd & 24th of July & August 2022, at Sarah Tucker College, Tirunelveli, 45 school teachers were benefitted which was sponsored by **TNSCST, Chennai**.

5. **Curriculum Development Committee member : at Sarah Tucker College**

- Acted as chairman of Board of Studies for Department of Chemistry.
- For B.Sc Nanoscience 2008-2018&B.Sc Chemistry and M. Sc Chemistry 2008-2011, 2010-2014, 2014-2017, 2018 & 2022
- As resolution passed by academic council, Curriculum is restructured according to UGCCBSC for the academic year 2017-2020 for Nanoscience and successfully received the equivalence to BSc Chemistry.

6. **Curriculum Development Committee member : other Autonomous colleges**

Board of Studies member to serve as subject expert for Holy Cross College Nagercoil, Period 2016-2018

Board of Studies member to serve as university nominee and subject expert for Department of Chemistry, Sadakathullah Appa College, Tirunelveli from 2016-2018 & 2018-2021 respectively

Board of Studies member as subject expert (from other university) to Fatima College, Madurai Kamaraj University. 2019-2022

Board of Study Member – Subject Expert - Nano Science, Sarah Tucker College (autonomous) 2023-2024.

7. Study Materials Prepared:

1. Environmental Society Pollution and Resource Management – (Foundation Course) 2008-2011, Dr. Juliet Vanitharani, Dr. G.D. Nalini Mabel & Mrs. V. Rama
2. Laboratory Manual – PG Organic Chemistry.

8. Extra curricular Activities:

- Chief Guest – Science Expo 2015, on 28th February 2015 at Rose Mary Matriculation School, Tirunelveli, Independence Day Celebration at Vivekananda Vidhyashram, Tirunelveli on 15th August 2016 & Wavoo Wajeeha Women's College, Kayalpatanam on 15th August 2022
- Delivered a lecture on 'Greener and Sustainable Future' at Sri. Parasakthi College, Courtallam on 28.02.2020 in the National Science Day Celebration organized by Department of Chemistry.
- Every Year Industrial visits were arranged. Visited IPRO-Mahendragiri & Nuclear power plant Koodankulam, on 15.02.2019 & 26.02.2019 respectively.
- Organizer-World Students Day, National Science Day, Science Fair, International year of Periodic Table and International mole day were celebrated on 15th October 2015, 26th February 2016, 07.09.2018, 23.10.2019 & 20.10.2019 respectively
- Motivational speaker-In Women's Day Celebration at Nazareth Margoschis College, Pillaiyanmangai on 14th March 2016 - topic 'You are a star', in Senior Citizen Association Meeting on 20th August 2016 at St. Mary's HSS, Tirunelveli-2 – topic 'Tips to lead a peaceful life' and in International Youth Day celebration at STC, Tirunelveli, sponsored by YWCA, Palayamkottai on 12.08.2022 – topic on 'Empowering Youth Work Life Balance'
- Pre-Marital Counselling – at Rani Anna Government College for Women, Tirunelveli on 13th April 2016.
- Dr V. Rama, Head and Associate Professor Of Chemistry gave a motivational talk on the impact of science among students at the science day celebration at Rose Mary Matriculation School, Tirunelveli. 9.2014.
- SMART Counseling coordinator Dr. G. D. Nalini Mabel & Mrs. V. Rama 2008-2009
- Acted as subject expert to the selection committee for the selection of candidates under Faculty Development Programme, UGC XII Plan (2012-2017), at The Madurai Diraviyam Thayumanavur Hindu College, Tirunelveli-10 on 01.10.2014.
- Resource Person - Delivered a talk on 'Facing the storms of life' in the Residential Training for Slum Youth '**Self Development and Community Welfare**' programme conducted by Department of Commerce, Rani Anna College, Tirunelveli in collaboration with **Tamil Nadu Slum Clearance Board, Tirunelveli** on 19.03.2014 at Rani Anna College, Tirunelveli
- **Service rendered to Government:**

Served as Chief & Additional Invigilator for the conduct of combined **Civil service Examination**, at Sarah Tucker College, Tirunelveli.

- **Local Service: Serving as** Tirunelveli District Ladies Club **Secretary from January 2022 to till date**
- Received ‘**Aacharya Award**’ from the GP Educational Trust, Tirunelveli, for the service to the education on Feb 28, 2021.
- Received **Gandhi-Kalam** Special Award from Trust-Children Home Venkadampatti , Tenkasi on 27-06-2023.
- Received ‘**Aaivu Sudar Award** From Agathiya Maamunivar kalai Illakiya Panpaadu Aaivu Maiyam, Agasthiyapuram, Madurai on 27-05-2023.

| Sl. No | Title, Vol., Page No. & Year | Journal | ISSN/ ISBN | Peer reviewed, Impact Factor | No. of Co- authors | Whether you are First/ Principal/ Corresponding author |
|--------|---|--|----------------|---------------------------------------|--------------------------|---|
| 1. | Syntheses of 5- substituted 1 <i>H</i> - tetrazoles catalyzed by reusable CoY zeolite; 6 (21), 9090 –9095, 2011 . | <i>Journal of Organic Chemistry (Note)</i> , | ISSN 0022-3263 | Peer reviewed, 4.849 | 2 | First |
| 2. | A multi component, solvent-free, one-pot synthesis of benzo x anthenones catalyzed by HY zeolite: their anti-microbial and cell imaging studies; 53, 1018-1024, 2012 | <i>Tetrahedron Letters</i> , | ISSN 0040-4039 | Peer reviewed, 2.67 | 2 | First |
| 3. | Pyridiniumy lide-assisted KY zeolite catalyzed tandem synthesis of polysubstituted cyclopropanes, 26, | <i>Catalysis Communication s</i> , | ISSN 1566-7376 | Peer reviewed, 3.468 | 2 | First |

| | | | | | | |
|-----------|--|--|----------------|---|---|-----------------------------|
| | Pages Nos. 39-43, 2012 | | | | | |
| 4. | [3 + 2] Cycloaddition promoted by zinc oxide nanoparticle s anchored on reduced graphene oxide using green solvent, 48, (2) Page 175-187, 2018 DOI: 10.1080/00397911.2017.1393086, | <i>Synthetic Communications</i> | ISSN 0039-7911 | Peer reviewed, 1.377 UGC Serial no. 22396. | 1 | Corresponding author |
| 5. | Synthesis and Characterization of polymer resins from renewable resource, 21 Page No- 427-443, 2017, DOI 10.1007/s12588-017-9195-2 | <i>Int J Plast Technol</i> | ISSN 0972-656X | Peer reviewed, 1.000 | 2 | Co-author |
| 6. | Polpala Flower Extract Mediated One Step Green | <i>Asian Journal of Research in Chemistry,</i> | ISSN 0974-4169 | | 3 | Corresponding author |

| | | | | | | |
|----|---|--|------------------|--|---|------------------|
| | Synthesis and Characterization of Magnetite (Fe ₃ O ₄) Nanoparticles 11(2), Page 459-462, 2018 DOI : 10.5958/0974-4150.2018.0083.4 | | | | | |
| 7. | Synthesis and Ageing Studies of Interpenetrating Polymer Networks 5 (8). Page: 637-642, 2017. | <i>In.J.Advanced Engineering Research and Technology</i> | ISSN 2348 – 8190 | | 2 | Co-author |
| 8. | Synthesis and Characterization of some Diazotised Resins from Renewable Resource 6, (6), Page: 1410-1420, 2016, DOI : 10.5958/2249-7315.2016.0295.1 | <i>Asian Research Consortium</i> | ISSN 2249-7315 | | 2 | Co-author |

| | | | | | | |
|-----|---|--|-----------------------------|------------------------------------|---|-----------------------------|
| 9. | Phyto chemical Studies of Tree Ferns of Western Ghats, 10,Page Nos 206- 213, 1993 , | <i>Indian Fern J.</i> , | ISSN: 0970- 2741 | SJIF 2014 = 2.228 | 2 | Co-author |
| 10. | Phyto chemical Studies of members of <i>Denn staedtiaceae</i> „ page Nos 146- 151, 1993 , | <i>Indian Fern J.</i> , 10, | ISSN: 0970- 2741 | SJIF 2014 = 2.228 | 2 | Co-author |
| 11. | Pharmacognosy And Phytochemical Study Of <i>Enicoste mma Littorale</i> Blume, 2(5), Page Nos: 599- 604, 2012 , | <i>American Journal of PharmTech Research</i> | ISSN: 2249- 3387 | impact factor 0.9832 | 3 | Co-author |
| 12. | Eco Friendly Egg Shell Mediated Aldol Condensation, 3(9) Page Nos 2399- 2403, 2014 , | <i>International Journal of Science and Research</i> , | (Online E-ISSN 2319- 7064): | | 2 | Corresponding author |
| 13. | Synthesis, characterization and in vitro | <i>Chemical Science Transactions</i> | ISSN: 2278- 3458 | [IF 0.875] UGC Serial no: 47152 | 2 | Corresponding author |

| | | | | | | |
|------------|---|--|---------------------------------------|---|----------|---------------------------------|
| | Antibacteria 1 effect of 4H- Benzo[g]chr omenes derivatives using Nano NiO 6, (I) Page Nos523- 534, 2017 DOI: 10.7598/cst 2017.1422 | | | | | |
| 14. | Synthesis, Characteriz ation, chemical nuclease activity and antimicrobi al evaluation of Tridentate (NOS Donor) Schiff base ligand: 2- (4- (Thiophen- 2-yl)but-3- en-2- ylidenenami no)phenol and their metal organic hybrids. 6, (4), Page Nos637- 645, 2017 DOI: 10.7598/cst 2017.1423, | <i>Chemical Science Transactions</i> | ISSN: 2278- 3458 | [IF 0.875] UGC Serial no: 47152. | 2 | Corresponding author |

| | | | | | | |
|-----|---|---|-----------------------------------|-----------------------|---|-----------------------------|
| 15. | Synthesis, spectral, electrochemical characterization and application of co (ii), ni(ii), cu(ii) and zn(ii) complexes of novel Schiff base ligands, 3(1) Page No. 267- 276, 2018; | <i>International Journal of Academic Research and Development</i> | ISSN: 2455- 4197 | UGC Journal No: 48808 | | Corresponding author |
| 16. | Novel Thiosemicarbazone – 4, 4'- Sulfonyldianiline Transition Metal Complexes as Unprecedented Corrosion Inhibitors And Their Invitro Antimicrobial Analysis, 5, (1), Page No: 101- 117, 2018 | <i>Journal For Advanced Research In Applied Sciences</i> | ISSN 2394- 8442 | | 2 | Corresponding author |
| 17. | Co(II), Ni(II), Cu(II) and Zn(II) complexes with Chelating Thiosemicarbazone Ligand | <i>National Journal of Multidisciplinary Research and Development</i> | ISSN: 2455- 9040 | | 2 | Corresponding author |

| | | | | | | |
|-----|---|--|------------------------|--|---|-----------------------------|
| | incorporating benzo(b)-thiophene and thiosemicarbazide Moieties: Spectroscopic, Electrochemical Behavior, Biological and Thermal Decomposition Studies. | | | | | |
| 18. | Synthesis, Spectral, Thermal Characterization, Electrochemical Applications And Pharmacological Studies Of Transition Metal Complexes Of Thiosemicarbazide Ligands Derived From 4, 4-Diaminodiphenylsulphone 7 (1) Page 148-160, 2018 | <i>International Journal of Engineering, Science and Mathematics</i> | ISSN: 2320-0294 | ISSN: 2320-0294 (UGC Approved) Scopus ID: 3D9ED96C3E FA9FBD | 2 | Corresponding author |

9. Research Papers communicated in Journals

| S. No | Particulars | Numbers |
|--------------|--|----------------|
| 1 | Research papers published in Refereed & UGC approved Journals | 43 |
| 2 | Full Papers in Conference Proceedings with ISBN/ISSN | 52 |
| 3 | Text/Subject or Reference Books/ Journals as Editor/Co-Editor | 3 |
| 4 | Training Courses & Workshop attended for a) 3weeks b) Within 1 week | 4 2 |

