



Name: **Dr. T. Vimala**

Designation: **Associate Professor**

Educational Qualification: **M.Sc.,M.Phil.,B.Ed.,Ph.D.,M.B.A., P.G.D.G.C.**

| <b>Sl.no.</b> | <b>Degree</b> | <b>University/ College</b> | <b>Year of passing</b> |
|---------------|---------------|----------------------------|------------------------|
| 1.            | B.Sc.         | Bharathidasan University   | 1987                   |
| 2.            | M.Sc.         | Bharathidasan University   | 1989                   |
| 3.            | M.Phil.       | Bharathidasan University   | 1990                   |
| 4.            | B.Ed.         | Annamalai University       | 1992                   |
| 5.            | Ph.D.         | Bharathidasan University   | 2006                   |
| 6.            | M.B.A.        | Alagappa University        | 2009                   |
| 7.            | P.G.D.G.C.    | Annamalai University       | 1997                   |

Experience:

UG: **17** years

PG: **14**years

M.Phil.:**11** years

Area of Specialization:

- **Physical organic chemistry**
- **Environmental chemistry.**

Guided: M. Phil.:**2**

Ph.D.:**1**(Guiding)

Research Papers Presented:**12**

| <b>Title of the seminar</b>                                   | <b>Title of the Paper</b>  | <b>Level</b> | <b>Sponsor</b> | <b>Date &amp; venue</b>  |
|---|--|--------------|----------------|--|
| National symposium on Recent trends in heterocyclic chemistry | Kinetics of oxidation of substituted 2,6- diphenyl piperidin-4-one oximes by quinoliniumfluorochromate | National     | UGC            | 24.9.2004<br>&25.9.2004<br>Department of Chemistry, Jamal Mohamed college, |

|   |   |                |                                    |  |
|---|---|----------------|------------------------------------|--|
|   |   |                |                                    | Trichy-20  |
| National seminar on Recent trends in Heteroatom chemistry                   | Oxidation of 3-ethyl-2,6-diphenyl piperidene-4-one oxime by QDC- A kinetic and mechanistic approach (PP75)  | National       | CSIR-UGC                           | 28.3.2007 & 29.3.2007<br>Annamalai University, Chidambaram.                    |
| National conference on Recent advances in Chemistry                         | Assay of quality parameters of water samples in Thiruvanaikovil, Tiruchirappalli District.  | National       | UGC                                | 18.9.2009<br>Bishop Heber College, Trichy-17                                   |
| Conference on 'Life through Chemistry'                                      | Effect of solvents and structural factors on the kinetics of Oxidation of ketones   | International  | P.R. Engineering College Thanjavur | 25.02.2006 & 26.02.2006<br>P.R. Engineering College Thanjavur                  |
| National Seminar on "Recent Trends in Hetero atom chemistry"                | Oxidation of 3-ethyl-2,6-diphenylpiperidin-4-one oxime by QDC- A kinetic and mechanistic approach   | National       | UGC and CSIR                       | 28.03.2007 & 29.03.2007<br>Annamalai University, Annamalai Nagar Chidambaram   |
| National conference on "Recent advances in Chemistry"                       | Assay of quality parameters of water samples in Thiruvanaikoil, Thiruchirappalli District   | National       | UGC                                | 18.09.2009<br>Bishop Heber College Trichy.                                     |
| International conference on chemistry in synergy with materials and biology | Paper presentation on A comparative study of polyaniline phosphate and polyaniline phosphate -TiO <sub>2</sub> composites                         | International  | DST & UGC                          | 10.1.2014 & 11.1.2012<br>Bishop Heber college, Trichy.                         |
| International conference on chemistry in synergy with materials and biology | Removal of methylene blue on activated carbon derived from coconut shell by acid treatment  | International  | DST & UGC                          | 10.1.2014 & 11.1.2014<br>Bishop Heber College, Trichy-17                       |
| Recent trends in X-ray crystallography                                      | Crystal Structure of Trimethylammonium Chloronitrophenylpyrimidine Salt with Dimethylsulphoxide Solvate   | National       | UGC                                | 08.10.2014 & 09.10.2014<br>Seethalakshmi Ramaswami College, Tiruchirappalli-2. |
| Evolutionary Trends in Biological and Pharmaceutical Chemistry              | Presented, a paper on study of photocatalysed adsorption of Naphthol Blue Black B from aqueous solution using CuCl <sub>2</sub> doped polyaniline | National Level | DBT                                | 30.1.2014 & 31.1.2014<br>Holy Cross college, Trichy-2.                         |

|  |  |                     |      |  |
|--|--|---------------------|------|--|
| International conference and chemical and environmental research | Adsorptive removal of acid blue 9 from waste water using metal doped with PANI as potent photocatalyst.                      | International Level | UGC  | 07.01.2017, Department of Chemistry, Jamal Mohamed college, Trichy-20                              |
| National conference on Nanomaterials.                            | Removal of reactive blue 52 dye from aqueous solution by adsorption on the surface of metal doped polyaniline nanocomposite. | National Level      | BRNS | 20.07.2017 & 21.07.2017, Department of Physics, Aringar Anna Govt. Arts College, Namakkal-637 002. |

### Research Papers Published: 10

- **T.VIMALA, T.S. JANIBAI,** Oxidative deoxygenation of Heterocyclic Ketoximes by QuinoliniumFluro Chromate – A Kinetic and mechanistic approach, Asian Journal of Chemistry, Vol. 22, No.7, 2010, 5679-5684,ISSN: (Print).0970-7077, (Online).0975-427X, Impact factor-0.355.
- **T.VIMALA, T.S. JANIBAI,** A Spectrophotometric study of kinetics of oxidation of oximes of 3,5- dimethyl-2,6-diaryl piperidine-4-ones with QuinoliniumFluro Chromate, Asian Journal of Chemistry, Vol. 22, No.7, 2010, 5699-5704, ISSN: (Print).0970-7077, (Online).0975-427X, Impact factor-0.355.
- **T.VIMALA, T.S. JANIBAI,** Effect of substituent on the oxidation of someHetrocyclicSemicarbazones by QuinoliniumFluro Chromate, Asian Journal of Chemistry, Vol. 22, No.7, 2010, 5705-5710, ISSN: (Print).0970-7077, (Online).0975-427X, Impact factor-0.355.
- **D. KALAIVANI, T. VIMALA& V.MANICKKAM,** Synthesis,Characterization and antimicrobial activity of two novel barbiturates: 2-methyl pyridinium(I)/8-hydroxy-quinolinium(II) 1,3-dimethyl-2,6-dioxo-5(2,4-dinitro-5-chlorophenyl)-1,2,3,6-tetrahydropyrimidin-4-olate, The International Journal of Science and Technoledge, Vol.2, Issue (10), October 2014, 69-71, ISSN 2321 919X.
- **R. BABYKALA, P.POORNIMA DEVI, T. VIMALA& D.KALAIVANI,** Crystal structure of trimethyl ammonium Chloro nitro phenyl pyrimidine salt with Dimethyl sulphoxide solvate, Recent trends in X-ray crystallography” with ISBN No.: 978-81-909490-0-2, pp. 203-217.
- **D. ANUSHA & T. VIMALA,** Photocatalysed anionic dye adsorption from synthetic waste water by using polyaniline –CuCl<sub>2</sub>., Asian Journal of Chemistry, Vol. 29, 2017.

- **T. VIMALA, D. ANUSHA & M. KARTHIKA**, Solar assisted adsorptive removal of sulphonic acid dyes from synthetic waste water using metal salt doped PANI composite., Asian Journal of Chemistry, Vol. 29, 2017.
- **D. ANUSHA & T. VIMALA**, Removal of orange – G and Alizarin Red S from aqueous solution by copper chloride doped PANI composite., Asian Journal of Chemistry, Vol. 29, 2017.
- **T. VIMALA & U. D. LINGESWARI**, Regeneration of carbonyl compounds by deoxygenation of piperidine-4-one oximes with quinolinium fluoro-chromate in presence of Montmorillonite K10 clay., Asian Journal of Chemistry, Vol. 29, 2017.
- **T. VIMALA, R. SANTHI & D. ANUSHA**, Microwave assisted deprotection of heterocyclic semicarbazones by quinolinium fluoro-chromate., Asian Journal of Chemistry, Vol. 29, 2017.

Books published (if any):

Lesson writer – Organic chemistry I (2015-2016)

M.Sc. Chemistry, Bharathidasan University (For correspondence course)

Research Projects:

Minor project-2

| <b>P. investigator/<br/>co-investigator</b> | <b>Title</b>  | <b>Sponsor</b> | <b>Duration</b>  | <b>Amount</b> |
|---|---|----------------|------------------|---------------|
| P. investigator                             | Deprotection strategies of heterocyclic oximes and semicarbazones by QFC-A Green Method | UGC            | 2012-2014        | Rs.1,35,000/- |
| Co-investigator                             | Synthesis, characterisation and biological activity of some novel imines of tryptamines | UGC            | Submitted (2015) | Rs. 5,00,000  |

External experts: (board members, chairman, research external examiners, selection committee members, Inspection committee member, etc.,)

- Best NSS Programme officer 2011-2012.
- Resource person in the orientation programme, Kamakoti Vidyalaya, Trichy -2, 2013 & 2014.
- Soft skill trainer - “Train the trainers” conducted by Scope international and organised by ELCOT from 21.09.2007-22.09.2007.

- Selection committee member for BT teachers in Savithrividyasala Higher Secondary School, Tiruchirappalli 620 002.
- Resource Person – Organic chemistry I (2015-2016)  
M.Sc. Chemistry, Bharathidasan University (For correspondence course).
  
- Board of studies member in
  - ADM College, Nagappattinam
  - Sri Sarada College, Salem.

Other positions held in the college

- Union Vice President .
- NSS Programme officer .
- Microquality cell member – IQAC .
- Vice President in the chemistry club & Association .
- Hostel in charge-2014 onwards.