

CURRICULUM VITAE

Dr. V. TAMILMANI
Assistant Professor
Department of Chemistry
UCE – BIT Campus, Tiruchirappalli 620 024
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➤ **Research Area:**

- Theoretical and Computational Chemistry
- Quantum Chemistry of Chemical Reactions and Complexes - Transition State Modeling – Ionic Cycloadditions- Studying Solvent effect in Chemical Reactions – Density Functional Theory- Organic Solar Cells
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➤ **Educational Qualifications:**

Qualification	College/University	Year of completion	Percentage	Class
Ph.D. (specialization)	Bharathidasan University	2007	Highly Commended	
M.Phil.	Bharathidasan University	2001	72	I
PG (specialization)	Govt College for Men (Autonomous) Kumbakonam	1999	64.7	I
UG (specialization)	Govt College for Women, Kumbakonam	1997	64.3	I
Others				

Experience: (chronological order)

Name of Company / Institutions	Designation of Post	From	To	Experience in Year

➤ **Awards / Honours Received:**

1. Senior Research Fellow, CSIR
2. Swiss Federal Commission Scholarship for Foreign Students
3. SCS Best Poster ward

➤ **Additional / Academic Responsibilities at University:**

1. YRC Programme Officer from 2009 – July 2015.
2. Member in Anti Ragging committee in the year 2012-2013.

➤ **Fellowships and Grants received:**

1. **Senior Research Fellow in CSIR Project** , School of Chemistry, Bharathidasan University, Tiruchirappalli 620 024, Tamil Nadu, India. (*Dec 2002-July 2003*)
2. **COST-STSM**, Laboratoire de Chimie Quantique , University of Louis Pasteur, Strasbourg, France. (*September 2004 -October 2004*) Funded by *European Science Foundation*

➤ **Research Guidance (M.S/Ph.D.) (Completed):**

Sl. No	Name of the scholar	Title of the thesis	Year of registration	Date of viva voce
1.	D. Gajalakshmi	DFT/ TDDFT Design and Evaluation of Heterocyclic Oligomers for Optoelectronic and Anti- Corrosion Applications	2011	08.05.2017
2.	A. Adilakshmi	Modelling [4+2] Cycloaddition Reactions of 2-Bromocycloalkenones	2011	12.02.2020

➤ **Publications:**

a. **Books / book chapters:**

b. International Journals:

1. Hydrogen bond stabilization in Diels-Alder transition states: The cycloaddition of hydroxy-ortho-quinodimethane with fumaric acid and dimethyl fumarate, **V. Tamilmani**, C. A. Daul, J. Lage Robles, C. G. Bochet and P. Venuvanalingam, *Chem. Phy. Lett* (2005) 406(4-6), 355. [Impact Factor 2.21]
2. An ab initio and DFT study on the hydrolysis of carbonyl dichloride S. Mahesh, G. Rajaraman, J. Prabha , **V. Tamilmani** and P. Venuvanalingam. Journal of Molecular Structure: THEOCHEM, (2005) 730, 155. [Impact Factor 1.045]
3. Electrostatic Control on endo/exo Selectivity in Ionic Cycloadditions, **V.Tamilmani**, C.A.Daul and P.Venuvanalingam,*Chem. Phy. Lett*,(2005) 416, 354. [Impact Factor 2.21]
4. Possible Ring Structures of Armchair Single Walled Carbon Nanotubes. **V.Tamilmani**, C.A.Daul and T.Jenny, *Chimia*(2006) 60, 228. [Impact Factor 0.626]
5. A DFT based ligand field study of EPR spectra of Co(II) and Cu(II) porphyrins. Mihail Atanasov a,c, Claude A. Daul , Marie-Madeleine Rohmer,**Tamilmani** Venkatachalam *Chem. Phy. Lett*,(2006) 427, 449. [Impact Factor 2.33]
6. A DFT/ TDDFT Mission to Probe Push-Pull Vinyl Coupled Thiophene Oligomers for Optoelectronic Applications, Duraikannu Gajalakshmi, Rajadurai Vijay Solomon, Venkatachalam **Tamilmani**, Mariasusai Boobalan, Ponnambalam Venuvanalingam. RSC Adv (2015) 5, 50353. [Impact Factor 3.289]
7. Unraveling the Role of Π - Conjugation in Thiophene Oligomers for Optoelectronic Properties by DFT/TDDFT Approach, D. Gajalakshmi and **V. Tamilmani**, *Brazilian Archives of Biology and Technology*, (2016) 59. [Impact Factor 0.744].
8. Theoretical Investigation of Steric Effect Influence on Reactivity of Substituted Butadienes with Bromocyclobutenone, A. Adilakshmi, M. Deepan Kumar, M. Jaccob, **V. Tamilmani** , *J. Chem. Inf. Model.* (2019) 59, 5, 2231-2241 [Impact Factor 3.966].
9. Are vinyl coupled furan derivatives better than vinyl coupled thiophene derivatives for optoelectronic applications? -Answers from DFT/TDDFT calculations, D. Gajalakshmi , M. Boobalan, R. Vijay Solomon, **V. Tamilmani**, *Com. Mat. Sci* (2019) 162, 60–68 [Impact Factor 2.644].

c. National Journals:

1. Nbnbn Stereoselectivity in Cationic Cycloadditions.
V.Tamilmani, D.Senthilnathan and P.Venuvanalingam, *J. Chem. Sci*(2008) 120, 1.
[Impact Factor 0.745]
2. Biocatalysis of azidolysis of epoxides:Computational evidences on the role of Halohydrin dehalogenase (HheC). Senthilnathan, D, **Tamilmani**, V and Venuvanalingam, P. *J. Chem. Sci.*, (2011)123, 279.[Impact Factor 1.177]
3. Blending Ratio of Low Sulphur Diesel: A Key to Lower Emissions, A. Adilakshmi, V. Venkatesan and **V. Tamilmani**, Journal Industrail Pollution Control (2014) 30, 139.

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

- TEQIP II sponsored two day Seminar on Challenges & Opportunities in Chemical and Environmental Research (Chemera 2016) on 11th & 12th August 2016.
- Organized One day Workshop on *Sustainability Agriculture and the Impacts on Environment* on 3rd October 2019

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended:**

- Participated in JNCASR Frontier Lecture Series conference held in Bharathidasan Tiruchirappalli, India during Dec 16-18, 1998. (2days)
- Participated in the workshop on *Latex* held in St- Joseph College, Tiruchirappalli, India on 27th Jan, 2003.
- Participated in State Level seminar on Challenges and applications in Bioinformatics held in Bharathidasan University, Tiruchirappalli, India during 31st March – 1st April, 2003. (2days)
- Participated in the Workshop on *Soft Skills* held in PeriyarManiammai University, Thanjavur on 25th July, 2009.
- Participated in the seminar on “*Recent Developments in Chemistry*” held on 29th August, 2011 at Bharathidasan University, Tiruchirappalli.

- Attended in UGC sponsored **Orientation Programme** Conducted by Academic Staff College, Bharathidasan University University, Tiruchirappalli. during **1.2.2013 to 28.02.2013. (28 Days)**
- Attended TEQIP II sponsored one week Faculty Development programme on “*Current Developments in Life Sciences An Interdisciplinary Approach CCDLS-2013*” Organized by Department of Pharmaceutical Technology, BIT campus Anna University Tiruchirappalli during 19th – 25th August **2013. (7 Days)**
- Participated two days lecture workshop on “**Recent Advances In Materials Chemistry**” (**RAMC’14**) held at Department of Chemistry, Bharathidasan Institute of Technology, Anna University, Tiruchirappalliduring March 7 & 8, **2014. (2 days)**
- Attended TEQIP II sponsored two weeks Faculty Development Programme on “*Nano Technology Applications in Engineering and Technology (NAET’15)*” Organized by Department of Petrochemical Technology, BIT campus, Anna University, Tiruchirappallduring 6th to 19th May **2015. (15 days)**
- Attended TEQIP II sponsored course on “*Faculty Development Programme*” on 1st March **2016**, Organized by Bharathidasan Institute of Technology, Anna University, Tiruchirappalli-620 024 in association with Confederation of Indian Industry(CII) (1 Day)
- Attended TEQIP II sponsored two day lecture workshop on “*Chemistry for Sustainable Green Environment (CHES GREEN’16)*” Organized by Department of Chemistry, BIT campus, Anna University, Tiruchirappallduring 11th to 12th March **2016, (2days)**
- Attended TEQIP II sponsored two weeks *Faculty Development Programme* on “ Multi-disciplinary approaches in Chemical Sciences (MACS- 2016) organized by Department of Chemistry, BIT campus, Anna University, Tiruchirappalli during 18th to 31thJuly**2016, (15days)**
- Attended 3rd National Seminar on “*Advanced Oxidation Processes (AOP 2017)*” Organized by Department of Chemistry, BIT campus, Anna University, Tiruchirappalli. during 17th -19th December 2017 (2 days)
- Attended in UGC sponsored **Refresher Course in Nano Sciences** conducted by Academic Staff College, Bharathidasan University University, Tiruchirappalli. during **20.12.2018 to 06.01.2018. (21 Days)**

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- “DFT/TDDFT Design and Evaluation of Heterocyclic Oligomers for Optoelectronic and Anti-Corrosion Application”
- has been accepted for the Oral presentation in the **International Conference on Recent Trends in Materials and Magnetism (RTMM-22)** on 15th December 2022 at Loyola College Chennai.

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➤ **National / International Conferences organized / Participated:**

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➤ **Professional recognitions:** (details like chairperson/member of a committee, reviewer, editor ...etc)

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(A) Chairperson for conferences / Seminar / Technical symposia:

(B) Guest lectures delivered:

(C) Invited Speaker at KKC engineering college, one day seminar “Come Chem World”, Jayankondam on 09.03.2013.

(D) As a resource person for a FDP on Engineering Chemistry II 16.12.2014 – UCE- Thirukuvalai Campus.

(E) Delivered Invited Lecture on 28th Feb, 2020 in Winter School on Computational Modelling held at Department of Physics, Holy Cross College (Autonomous), Tiruchirappalli, during 27th-29th February 2020.

(F) Delivered Invited Lecture on 25th June, 2022 in Department Association on Evaluation of Heterocyclic Oligomers for Optoelectronic and Anti-Corrosion held at Department of Chemistry, Seetha Lakshmi Ramasamy College (Autonomous), Tiruchirappalli.

Visits Abroad:

- Department of Chemistry, University of Fribourg, Switzerland during (*July 2003- Oct 2005*) through Swiss Federal Commission Scholarship.
- Laboratoire de Chimie Quantique, University of Louis Pasteur, Strasbourg, **France**. (*September 2004 -October 2004*) Funded by *European Science Foundation (COST-STSM)*

- Department of Chemistry, Sookmyung Women's University, Seoul, **Korea** on *October 2007*

DECLARATION:

I certify that the information furnished above is correct and true to the best of my knowledge and belief.

Signature of the staff member

Head of the Department

Dean