

CURRICULUM VITAE

Dr. M. Velayutham Pillai

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Academic Credentials

2010–2015 **Ph.D. Chemistry** ([Roll No. 1017030007](#)), Department of Chemistry,
(Full Time) Faculty of Science, Annamalai University, Tamil Nadu.

Title of the Thesis: **Synthesis and Structural Studies of Oxime Ether, Cyanoacetyl & Benzotriazolyl Acetyl Hydrazone, N-thiocyanatoacetyl and Coumarin Derivatives of 3-alkyl-2,6-Diarylpiperidin-4-ones**

Thesis URL: <http://hdl.handle.net/10603/45881>

Research Supervisor: **Dr. T. Vidhyasagar**, Associate Professor, Department of Chemistry, Faculty of Science, Annamalai University, Annamalai Nagar-608 002, Tamil Nadu.

1995–1997 **M.Sc. Chemistry** ([Reg. No. 950166](#)), Scott Christian College,
(Full Time) (Manonmaniam Sundaranar University), Nagercoil, Tamil Nadu.
Marks: 61 %

1992–1995 **B.Sc. Chemistry** ([Reg. No. 211082](#)), Pioneer Kumaraswamy College,
(Full Time) (Manonmaniam Sundaranar University), Nagercoil, Tamil Nadu.
Marks: 80 %

1990-1992 **Higher Secondary Course** ([Reg. No. 659578](#)), SLB Govt. HSS
(Board of Higher Secondary Examination - Tamil Nadu), Nagercoil.
Marks: 74 %

1989-1990 **SSLC** ([Reg. No. 015573](#)), SLB Govt. Higher Secondary School
(Board of Secondary Education - Tamil Nadu), Nagercoil.
Marks: 89 %

Professional Experience

1. Working as Assistant Professor at Nallamuthu Gounder Mahalingam College, Pollachi (Since March 2023).
2. Worked as Assistant Professor at Dhaanish Ahmed Institute of Technology, Coimbatore (October 2022 to January 2023).
3. Worked as [Assistant Professor](#) at Kalasalingam Academy of Research and Education (Deemed to be University), Krishnankoil from August 2015 to May 2021 **(5.75 Years)**.
4. Worked as [Assistant Professor](#) at K. N. S. K. College of Engineering, Nagercoil from July 2007 to November 2010 and December 2012 to June 2013 **(4 Years)**.
5. Worked as [Lecturer](#) at Surya Polytechnic College, Vellamodi from September 2006 to June 2007 **(10 Months)**.
6. Worked as **Medical Sales Officer** at SBL Private Limited (H.Q.: Delhi), Thiruvananthapuram from October 2003 to March 2006 **(2.5 Years)**.
7. Worked as [Attendant Operator–Chemical Plant](#) at The Fertilizers and Chemicals, Travancore Ltd. (FACT), Cochin from May 1999 to November 2000 **(1.5 Years)**.

Association with academic and other activities

1. **Member - Doctoral Research Committee** - Department of Chemistry, Kalasalingam Academy of Research and Education (August 2015 - May 2021).
2. **Member - Board of Studies - B.Sc. & M.Sc. Chemistry**, Kalasalingam Academy of Research and Education (August 2015 - May 2021).
3. **Programme Coordinator – B.Sc. Chemistry** – Kalasalingam Academy of Research and Education (August 2015 - November 2020).
4. **Programme Coordinator i/c – B.Sc. Forensic Science** – Kalasalingam Academy of Research and Education (June 2019 - May 2021).
5. **NPTEL Online Courses - Programme Coordinator** – Department of Chemistry, Kalasalingam Academy of Research and Education (August 2015 - May 2021).

Research Interests

- ☐ Organic Synthesis
- ☐ Structural Chemistry
- ☐ Computational Chemistry
- ☐ Stereochemistry

Research Publications

(Total Publications = 26; *h*-Index = 4; *i*10-Index = 2; Total Citations = 54)

Google Scholar Profile: <https://scholar.google.co.in/citations?hl=en&authuser=2&user=9sYAvT0AAAAJ>

Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=56328441300>

Web of Science Author Profile: <https://www.webofscience.com/wos/author/record/W-4428-2019>

1. **M. Velayutham Pillai**, K. Rajeswari, T. Vidhyasagar; *Synthesis, spectral and single crystal X-ray diffraction studies of novel O-(Carboalkoxy)methyl oxime ethers of 3-alkyl and 3,5-dialkyl-1-methyl-2,6-diphenyl piperidin-4-ones*, **Journal of Molecular Structure** **1076** (2014) 94–104. [doi:10.1016/j.molstruc.2014.07.030](https://doi.org/10.1016/j.molstruc.2014.07.030)
2. **M. Velayutham Pillai**, K. Rajeswari, T. Vidhyasagar; *Stereoselective synthesis, spectral and antimicrobial studies of some cyanoacetyl hydrazones of 3-alkyl-2,6-diaryl piperidin-4-ones*, **Journal of Molecular Structure** **1076** (2014) 174–182. [doi:10.1016/j.molstruc.2014.07.050](https://doi.org/10.1016/j.molstruc.2014.07.050)
3. T. Mohandas, **M. Velayutham Pillai**, T. Vidhyasagar, A. Pasupathy, P. Sakthivel; *Methyl({[(4E)-1,3-dimethyl-2,6-diphenylpiperidin-4-ylidene] amino} oxy) acetate*, **Acta Crystallographica Section E** **70** (2014) o513. [doi:10.1107/S1600536814006667](https://doi.org/10.1107/S1600536814006667)
4. **M. Velayutham Pillai**, K. Rajeswari, T. Vidhyasagar; *Spectral assignments and structural studies of a warfarin derivative stereoselectively formed by tandem cyclization*, **Journal of Molecular Structure**, **1100** (2015) 447–454. [doi:10.1016/j.molstruc.2015.07.058](https://doi.org/10.1016/j.molstruc.2015.07.058)
5. C. Udhaya Kumar, A. Sethukumar, **M. Velayutham Pillai**, B. Arul Prakasam, C. Ramalingam, T. Vidhyasagar; *Synthesis, spectral and structural studies of alkyl 2-(3-alkyl-2, 6-diaryl piperidin-4-ylidene) hydrazinecarboxylate derivatives: Crystal and molecular structure of methyl 2-(3-methyl-2, 6-diphenylpiperidin-4-ylidene)*

hydrazine carboxylate, **Journal of Molecular Structure** **1112** (2016), 45-52.
[doi:10.1016/j.molstruc.2016.02.003](https://doi.org/10.1016/j.molstruc.2016.02.003)

6. **M. Velayutham Pillai**, K. Rajeswari, C. Udhaya Kumar, C. Ramalingan, A. Manohar, T. Vidhyasagar; *Chemoselective synthesis and spectral studies of N-thiocyanatoacetyl derivatives of 3-alkyl-2,6-diarylpiperidin-4-ones*, **Phosphorus, Sulphur, and Silicon and the Related Elements** **191** (2016) 1209-1215.
<http://dx.doi.org/10.1080/10426507.2016.1149852>
7. C. Udhaya Kumar, **M. Velayutham Pillai**, B. Arul Prakasam, C. Ramalingan, E.R. Nagarajan, T. Vidhyasagar; *Chemoselective synthesis, spectral and computational studies of 2-amino-3-cyano-4-aryl-4H-chromen-7-yl alkyl carbonates*, **Chemical Data Collections** **3** (2016) 68-81. <https://doi.org/10.1016/j.cdc.2016.06.002>
8. Ayyanar Karuppasamy, Kannan Gokula Krishnan, **Muthiah Pillai Velayutham Pillai**, Chennan Ramalingan; *Synthesis, molecular structure and vibrational analysis of DDA based carbazole decorated phenothiazine-3-carbaldehyde: Experimental (FT-IR, UV and NMR) and density functional theory (DFT) calculations*, **Journal of Molecular Structure** **1128** (2017) 674-684.
<https://doi.org/10.1016/j.molstruc.2016.09.026>
9. Ayyanar Karuppasamy, Chandran Udhaya Kumar, **Muthiah Pillai Velayutham Pillai**, Chennan Ramalingan; *Synthesis, spectral, structural and DFT studies of novel dialkyl fluorene decorated phenothiazine-3-carbaldehyde*, **Journal of Molecular Structure** **1133** (2017) 154-162. <https://doi.org/10.1016/j.molstruc.2016.12.002>
10. C. Udhaya Kumar, **M. Velayutham Pillai**, K. Gokula Krishnan, C. Ramalingan; *Synthesis, spectral and structural characterization of isobutyl 4-(2-chloro phenyl)-5-cyano-6-(((dimethylamino)methylene)amino)-2-methyl-4H-pyran-3-carboxylate*, **Journal of Molecular Structure** **1144** (2017) 206-215.
<https://doi.org/10.1016/j.molstruc.2017.05.011>
11. Ayyanar Karuppasamy, Chandran Udhaya Kumar, Subramanian Karthikeyan, **Muthiah Pillai Velayutham Pillai**, Chennan Ramalingan; *Synthesis, spectral, structural prediction and computational studies of octylcarbazole ornamented 3-phenothiazinal*, **Journal of Molecular Structure** **1147** (2017) 487-494.
<https://doi.org/10.1016/j.molstruc.2017.06.136>

12. **M. Velayutham Pillai**, K.Rajeswari, C. Udhaya Kumar, K. Gokula Krishnan, S. Mahendran, C. Ramalingan, E.R. Nagarajan, T. Vidhyasagar; *Stereoselective synthesis and spectral studies of some benzotriazolylacetyl hydrazones of 3-alkyl-2,6-diarylpiperidin-4-ones*, **Journal of Molecular Structure** **1150** (2017) **558-565**. <https://doi.org/10.1016/j.molstruc.2017.09.010>
13. Chandran Udhaya Kumar, **Muthiah Velayutham Pillai**, Kannan Gokula Krishnan, Chennan Ramalingan; *Synthesis, experimental and theoretical studies on highly functionalized novel 4H-pyran-3-carboxylate*, **Journal of Molecular Structure** **1175** (2019) **587-592**. <https://doi.org/10.1016/j.molstruc.2018.08.037>
14. G. A. Krishnan, C. U. Kumar, T. Mohandas, **M. V. Pillai** and P. Sakthivel; *Allyl 6-amino-5-cyano-2-methyl-4-phenyl-4H-pyran-3-carboxylate*, **IUCrData** (2019) **4 x190054**. <https://doi.org/10.1107/S2414314619000543>
15. G. A. Krishnan, T. Mohandas, C. U. Kumar, **M. V. Pillai** and P. Sakthivel; *Allyl 6-amino-4-(4-chlorophenyl)-5-cyano-2-methyl-4H-pyran-3-carboxylate*, **IUCrData** (2019) **4 x190315**. <https://doi.org/10.1107/S2414314619003158>
16. D.Shanthi, K.Rajeswari, C.Udhaya Kumar, T.Vidhyasagar, **M.Velayutham Pillai**, *Structural features of Novel 2,6-diarylpiperidin-4-ones derived from the methyl ether of raspberry ketone: Investigation through spectral, single crystal and DFT studies*, **Journal of Molecular Structure**, **1198**, (2019) **126907**. <https://doi.org/10.1016/j.molstruc.2019.126907>
17. N. Sankara Pandian, B. Siva Prakash, M. Thillai Natarajan, C. Ramalingan, **M. Velayutham Pillai**, *Computational Aspects of (E)-O-Carbomethoxy Methyl Oxime Ether of 1,3-Dimethyl-2,6-diphenylpiperidin-4-one*, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Volume-9, Issue-2S2, December 2019. <https://www.ijitee.org/wp-content/uploads/papers/v9i2s2/B11691292S219.pdf>
18. K. Gokula Krishnan, C. Udhaya Kumar, T. Vidhyasagar, **M. Velayutham Pillai**, C. Ramalingan, *Spectral and Structural Perspectives of 1,3,3-Trimethyl-2,6-diphenylpiperidin-4-one*, **International Journal of Recent Technology and Engineering (IJRTE)**, Volume-8, Issue-4S2, December 2019. <https://www.ijrte.org/wp-content/uploads/papers/v8i4s2/D11591284S219.pdf>

19. Chandran Udhaya Kumar, Ramar Sivaramakarthikeyan, Kannan Gokula Krishnan, **Muthiah Pillai Velayutham Pillai**, Chennan Ramalingan, *Novel Pyran Derivative Ornamented with free Amino and Nitrile Functionalities: Synthesis and Spectroscopic Characterization*, **International Journal of Engineering and Advanced Technology (IJEAT)**, Volume-9, Issue-1S4, December 2019. <https://www.ijeat.org/wp-content/uploads/papers/v9i1s4/A11601291S419.pdf>
20. Udhaya Kumar, Shunmugam Iniyaval, Kannan Gokula Krishnan, **Muthiah Pillai Velayutham Pillai**, Chennan Ramalingan, *Crystallographic and Computational Analysis of 4H-Pyran-3-Carboxylate Derivative Tethered with Amino and Methacryloyloxyethyl Units*, **International Journal of Engineering and Advanced Technology (IJEAT)**, Volume-9, Issue-1S4, December 2019. <https://www.ijeat.org/wp-content/uploads/papers/v9i1s4/A11631291S419.pdf>
21. T. Mohandas, C. Udhaya Kumar, G. Anantha Krishnan, **M. Velayutham Pillai**, P. Sakthivel, *Crystal Structure and Molecular Conformational Studies of Allyl 6-Amino-5-cyano-4-(4-fluorophenyl)-2-methyl-4H-pyran-3-carboxylate*, **Crystallography Reports**, 2019, Vol. 64, No. 7, pp. 1103–1107. DOI: <https://doi.org/10.1134/S1063774519070101>
22. B K Ramesh, **M Velayutham Pillai**, S Vanitha and J Diagu, *Analysis of surface water quality for irrigation in Padmanabhapuram fort (Kanyakumari District, Tamil Nadu) India*, **IOP Conf. Series: Materials Science and Engineering** 872 (2020) 012191. <https://iopscience.iop.org/article/10.1088/1757-899X/872/1/012191>
23. D Shanthi, K Rajeswari, C Udhaya Kumar, T Vidhyasagar, **M Velayutham Pillai** *Synthesis, NMR and Single Crystal Studies of (E)-tert-Butyl 2-(3-methyl-2, 6-diarylpiperidin-4-ylidene) hydrazinecarboxylates*, **Chemical Data Collections**, 2020, Vol.29, 100512. <https://doi.org/10.1016/j.cdc.2020.100512>
24. R. Thayala Sanker, M. Arunpandian, **M. Velayutham Pillai**, S. Arunachalam, G. Muneeswaran, B. Babu, Mon-Shu Ho & R. Sivakumar, *Spectroscopic and density functional theory (DFT) approach of zwitterionic 4-aminobenzenesulfonic acid for optoelectronic applications*, **Journal of Materials Science: Materials in Electronics**, Vol. 32, 4982–4997(2021) <https://doi.org/10.1007/s10854-021-05236-7>
25. C. Udhaya Kumar, B. Arul Prakasam, C. Ramalingan, T. Vidhyasagar, **M. Velayutham Pillai**, *Synthesis, spectral, structural and computational studies of*

isobutyl 6-amino-5-cyano-4-(1-(4-isobutylphenyl)ethyl) -2-methyl- 4H-pyran-3-carboxylate, **Chemical Data Collections**, Vol. 33, June 2021, 100689.
<https://doi.org/10.1016/j.cdc.2021.100689>

26. Srikanth Jupudi, Kalirajan Rajagopal, Sankaranarayanan Murugesan, Banoth Karan Kumar, Kannan Raman, Gowramma Byran, Jayakuamar Chennaiah, **Velayutham Pillai Muthiah**, Bharathi Dasan P, Sathianarayanan Sankaran, *Identification of Papain-Like Protease inhibitors of SARS CoV-2 through HTVS, Molecular docking, MMGBSA and Molecular dynamics approach*, **South African Journal of Botany**, (In Press, Corrected Proof, Available online 3 December 2021).
<https://doi.org/10.1016/j.sajb.2021.11.033>
27. D Geetha, B Selvakumar, M Velayutham Pillai, S Arunachalam, *Anticorrosion behavior of bioemulsions on metal-environment interface*, **Results in Chemistry**, Vol. 5, January 2023, 100858.

Book Chapters

1. [Nanomaterials in Bionanotechnology: Fundamentals and Applications](#) by CRC Press (Taylor & Francis Group, August 25, 2021).
2. [Nanoscale Graphitic Carbon Nitride: Synthesis, Properties and Emerging Applications](#) in Elsevier under Micro and Nanotechnology Series.
3. [Heterojunction Photocatalytic Materials](#) by Jenny Stanford Publishing (Taylor & Francis Group, April, 2022).

Fellowships / Sponsored Projects / Funding received

1. [University Research Studentship \(2011-'12\)](#) during Ph.D. sponsored by Annamalai University, Chidambaram, Tamil Nadu.
2. [Funding \(Rs. 14.35 Lakh\)](#) received for the project, [Drug Discovery Hackathon - 2020 \(DDH-2020\) Phase-II](#), as a Co-Principal Investigator (Co-PI) for the collaborative project (PI: Dr. R. Kalirajan, JSS College of Pharmacy, Ooty) from the **Ministry of Human Resource and Development Innovation Cell**, Government of India (02 July 2021).

Conferences/FDPs/Seminars/Workshops Attended

1. **National Level Seminar on [Emerging Trends in Environmental Science \(ETES-'09\)](#)** held at Velammal College of Engineering and Technology, Madurai (8th Jan. 2009).
2. **[Prof. K. S. Sonachalam Memorial XXI Interdisciplinary Research Methodology Workshop](#)** held at Annamalai University, Chidambaram (8th–11th Feb. 2011).
3. **National Seminar on [Novel Synthetic and Computational Strategies in Chemical Sciences \(SCCS–2011\)](#)** held at Annamalai University, Chidambaram (28th & 29th Mar. 2011).
4. **National Seminar on [Chemistry Education and Research & National Convention of Chemistry Teachers \(NCCT–13\)](#)** held at Annamalai University, Chidambaram (8th–10th Nov. 2013).
5. ICMR Sponsored **[National Workshop on Nanoscience and Nanotechnology \(NWNSNT-2016\)](#)** held at Pondicherry University, Puducherry (3rd - 5th Mar. 2016).
6. **[Four Week AICTE approved FDP on Use of ICT in Education for Online and Blended Learning](#)** by IIT-Bombay held at Thiagarajar College of Engineering, Madurai (14th-15th May, 4th-5th & 25th-26th June 2016).
7. **[NPTEL Local Chapter Interaction SPOC Workshop](#)** held at Indian Institute of Technology - Madras (17th Dec. 2016).
8. **National Seminar on [Recent Advances in Chemical and Environmental Research \(RACE-2017\)](#)** held at Annamalai University, Chidambaram (20th & 21st Jan. 2017).
9. **[National Conference on Advanced Functional Materials and Applications \(NCAFMA-2017\)](#)** organized by the Department of Chemistry, Kalasalingam University during 30th & 31st March 2017.
10. **National Conference on [Advances in Functional Materials \(NCAFM-2017\)](#)** held at St. Joseph's College of Engineering, Chennai (5th Aug. 2017).

11. [International Conference on Recent Advances in Applied Physics \(ICRAAP-2017\)](#) held at Annamalai University, Chidambaram (21st & 22nd Sep. 2017).
12. [International Seminar on Informatics and Wearable Smart Sensors \(ISIWSS-2017\)](#) held at Kalasalingam University, Krishnankovil (2nd Nov. 2017).
13. [National Programme on Technology Enhanced Learning \(NPTEL\) - Workshop](#) conducted by Indian Institute of Technology - Madras (25th Jan. 2018).
14. **International Conference on** [Recent Trends in Synthetic Methods and Material Chemistry \(RTSMC-2018\)](#) held at Annamalai University, Chidambaram (2nd & 3rd Feb. 2018).
15. [National Workshop on NMR Spectroscopy \(WNMRS-2018\)](#) held at Gandhigram Rural Institute (Deemed to be University), Dindigul (8th & 9th March 2018).
16. **Faculty Development Programme on** [“Pedagogy of Chemistry in Higher Education”](#) organized by the School of Advanced Sciences, Kalasalingam University from 28th to 01st June 2018.
17. **One Day Workshop on** [“Advanced Research Skills”](#) organized by Centre of Learning Technologies - KARE (03-07-2018).
18. **One Day Workshop on** [“Effective Time Management”](#) organized by Centre of Learning Technologies - KARE (04-07-2018).
19. **One Day Seminar on** [“Advanced Separation and Detection seminar”](#) organized by Agilent Technologies India Pvt. Ltd., India (05-09-2018).
20. **State Level Conference on** [“Advances in Chemical Science - \(SCACS-2019\)”](#) held at AVS College of Arts & Science, Salem (4th January 2019).
21. **Faculty Development Programme on** [“Tech Tools for Educators”](#) organized by the School of Automotive and Mechanical Engineering, Kalasalingam University on 28th & 29th May 2019.
22. **International Conference on** [“Bioorganic & Biofuel Chemistry \(ICBB-2019\)”](#) held at Sri Sarada Mahavidyalayam Arts & Science College for Women, Ulundurpet (7th August 2019).
23. **One day Workshop on** [‘eSim, a First Course in the IoT Series for Teachers’](#) held at Kalasalingam University, Krishnankoil organised by the Teaching Learning Centre ICT at IIT Bombay on 21 September 2019.

24. NPTEL-AICTE Online cum Faculty Development Programme (FDP) on "[Bioinorganic Chemistry](#)" conducted by IIT-Madras (Aug-Sep 2019).
25. International Conference (Kalasalingam Global Conference-2019) on "Sustainable Development" held at Kalasalingam Academy of Research and Education, Krishnankovil (18th-20th December 2019).
26. Three-Day Online Faculty Development Programme on "[Emotional Intelligence](#)" organized by KG College of Arts & Science, Coimbatore on 28th, 30th April and 2nd May 2020.
27. Faculty Development Program on "[GChemPaint and LibreOffice](#)" organized by Department of Chemistry, D.K.M. College for Women (Autonomous), Vellore in association with Spoken Tutorial, IIT Bombay (04/05/2020 to 10/05/2020).
28. Online Workshop on "[Patent Drafting and Processing with Importance of Trademark and Copyright](#)" organized by Journal of Advanced Engineering and Research (08/05/2020 to 09/05/2020).
29. Online Training of the "[IEEE Explore Library](#)" conducted at Kalasalingam Academy of Research and Education, Krishnankovil (14/05/2020).
30. Webinar on "[IPR and IP Management for Innovation and Start-ups](#)" presented by Mr.O. Prasad Rao, Deputy Controller of Patents and Design, IP India, Govt.of India (15/05/2020).
31. Webinar on "[Drug Discovery from Medicinal Plants: An Integrative Approach](#)" conducted by Dept. of Botany, K J Somaiya College of Science and Commerce, Bombay (16/05/2020).
32. One Day Online National seminar on "[Advances in Material Science](#)" organized by Maharishi Dayanand College of Arts and Science, Mumbai (20/05/2020).
33. Convened One Week Online Faculty Development Programme on "[Innovations in Teaching Methodologies](#) (ITM-2020)" by Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankovil (21/05/2020 to 27/05/2020).
34. One-Week Online Faculty Development Programme on "[Digital Skills for Smart Teaching](#)" organized by the Department of Education, Annamalai University from 12-18, June 2020.

35. **[“International Conference on Materials and Mathematical Sciences \(ICMMS-2020\)”](#)** organized by School of Advanced Sciences, Kalasalingam Academy of Research and Education, Krishnankovil (19/06/2020 to 20/06/2020).
36. **Webinar on [“Basic Author Workshop Research Article Writing & Reference Management Using Mendeley”](#)** organized by Annamalai University in Collaboration with ELSEVIER (22nd June 2020).
37. **Faculty Development Programme on [“Application of New Materials in Emerging Field”](#)** organized by Sathyabama Institute of Science and Technology (24-30, June 2020).
38. Two days **Online National Level Training Programme on [“Hands-on Training in ICT tools for Teaching and Assessment”](#)** organized by G. M. Momin Women’s College, Bhiwandi (13th & 14th of August 2020).
39. **AICTE Training And Learning (ATAL) Academy Online FDP on [“Blended Learning and Flipped Classroom”](#)** from 24-8-2020 to 28-8-2020 at JIS College of Engineering.
40. **Faculty Development Programme on [Engineering Education](#)** from 19-01-2021 to 23-01-2021 organized by CLT-Kalasalingam Academy of Research and Education.

Project Guidance

- UG Project - 3 (B.Sc. Chemistry)
- PG Project - 2 (M.Tech. Environmental Engineering & M.Sc. Chemistry)

Awards and Recognitions

1. **[Certificate of Appreciation](#)** awarded by NPTEL for mentoring students (Course: Industrial Safety Engineering) during July-October 2018.
2. **[Resource Person](#)** in State Level Conference held at AVS College of Arts and Science, Salem on 04 January 2019.
3. **[Chief Guest & Resource Person](#)** in the International Conference held at Sri Sarada Mahavidyalayam College of Arts & Science College for Women, Ulundurpet on 07 August 2019.
4. **[Reviewer](#)** – Advances in Science, Technology and Engineering Systems Journal (ASTESJ).

5. [Editorial Board Member](#) - Journal of Chemistry and Applications, RAFT Publications.
6. [Resource Person](#) - Online **Workshop on Environmental Pollution** organized by Immaculate College for Women, Viriyur on 23 May 2020.
7. [Resource Person](#) - **Webinar on Yoga: An Immunity Enhancer?** organized by the Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankoil on 21 June 2020.
8. [Resource Person](#) - **Webinar on Digital Tools for Teaching, Learning and Research** organized by J. P. College of Arts & Science, Tenkasi on 26 June 2020.
9. [Member of the Winner Team in Drug Discovery Hackathon-2020 \(DDH-2020\)](#) for COVID-19 (Initiated jointly by AICTE, CSIR, Ministry of Education's Innovation Cell and supported by Office of Principal Scientific Advisor, Govt. of India, NIC and MyGov.)
10. [Certified Publons Academy Supervisor](#) (As a verified mentor to students of the Publons Academy Practical Peer Review Training Course) on 01 June 2021.

Professional Affiliation

1. [Life Member \(LM415\)](#) in **Association of Environmental Analytical Chemistry of India (AEACI), Mumbai.**
2. [Life Member \(L34227\)](#) in [Indian Science Congress Association \(ISCA\)](#), Kolkata.
3. [Life Member \(LM272\)](#) in **Association of Separation Scientists and Technologists (ASSET), Mumbai.**
4. [Life Member \(LM701\)](#) in **Indian Crystallographic Association (ICA), Bangalore.**
5. [Life Member](#) (applied) in **Chromatographic Society of India (CSI), Mumbai.**
6. [Yoga Volunteer Member](#) (YVM ID-IYA/2019/G278) in **Indian Yoga Association (IYA), New Delhi.**
7. [Life Member \(STRA-M19231\)](#) in **Scientific and Technical Research Association (STRA).**
8. [Life Member \(TERA-M19552\)](#) in the **Teaching and Education Research Association (TERA).**
9. [Member \(R219093129\)](#) in **Asia Society of Researchers (ASR), Hong Kong.**

10. [Associate Member](#) in the **International Society for Development and Sustainability (ISDS)**, Japan.

Online Certifications

1. **Application of Spectroscopic Methods in Molecular Structure Determination** (Elite Grade and Topper) conducted by NPTEL-IIT Madras ([Roll No. NPTEL16CY022026001](#))
2. **Organometallic Chemistry** (Elite Grade) conducted by NPTEL-IIT Bombay ([Roll No. NPTEL16CY0618550020](#))
3. **Basic 3D Animation using Blender** (A Grade) conducted by IIT Bombay X (<https://certificate.iitbombayx.in/downloads/62762bc522994189bb4a296b95194985/Certificate.pdf>)
4. **Designing Learner-Centric MOOC** (Grade: 62%) conducted by IIT BombayX (<https://certificate.iitbombayx.in/downloads/b4f6cb445c6b4e9f9affec53e9eb0e66/Certificate.pdf>)
5. **Fundamentals of 3D Visualization** (Grade: 78%) conducted by IIT BombayX (<https://certificate.iitbombayx.in/downloads/f21537a1f9684c23a215836c7345d79b/Certificate.pdf>)
6. [Geoinformatics for Forest Fire Management](#) conducted by Indian Institute of Remote Sensing (IIRS-ISRO, Govt. of India). (UID- b6ec18192e8f93e94eadf96648c2ba93. URL- <http://certificate.iirs.gov.in>)
7. **AICTE recognized Short Term Course on [Nuclear Power Technologies through ICT](#)** conducted by the National Institute of Technical Teachers Training and Research - Chandigarh (NITTTR) (MHRD, Govt. of India).
8. [Certified Peer Reviewer Course](#) (completed all modules) conducted by Elsevier Research Academy (01 May 2020).
9. [Mindshift: Break Through Obstacles to Learning and Discover Your Hidden Potential](#) conducted by McMaster University, Hamilton, Ontario (07/21/2020) (Verify at coursera.org/verify/YGMYHR3MJ3T9).
10. [Learning How to Learn: Powerful Mental Tools to Help You Master Tough Subjects](#) conducted by McMaster University & University of California San Diego (03/08/2020)

11. [How to Write and Publish a Scientific Paper \(Project-Centered Course\)](#) an online non-credit course authorized by École Polytechnique and offered through Coursera (08/22/2020)(Verify at coursera.org/verify/V42N8PGJJK7E)
12. [Career planning: resume/CV, cover letter, interview](#) an online non-credit course authorized by National Research Tomsk State University and offered through Coursera(08/22/2020)(Verify at coursera.org/verify/U7MT6MJVBA7W)
13. [Certified Publons Academy Peer Reviewer](#) (Publons Academy Practical Peer Reviewer Course) on 28th Sept. 2020.
14. [The Science of Success: What Researchers Know that You Should Know](#), an online non-credit course authorized by University of Michigan and offered through Coursera (05/23/2021)(Verify at coursera.org/verify/JQT4JUA6CPKH).

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References

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Declaration

I hereby declare that the above-mentioned details are true to the best of my
knowledge and belief.



(M. VELAYUTHAM PILLAI)

Place: R.Gopalapuram

Date: 14.04.2023