

## CURRICULUM VITAE

**Dr. D. ILANGESWARAN, M. Sc., M. Phil., Ph.D.,**  
**Assistant Professor & Research Advisor**  
**RAJAH SERFOJI GOVT. COLLEGE (Autonomous),**  
**Thanjavur - 613005**



### Address for Communication

No. 35, A.V.P. Azhagammal Nagar Extension  
Near Yagappa School  
Thanjavur – 613005.

**email:** [dhailangeswaran@gmail.com](mailto:dhailangeswaran@gmail.com), [ilangeswaran@rsgc.ac.in](mailto:ilangeswaran@rsgc.ac.in)

[Vidwan.inflibnet.ac.in/profile/193106](http://Vidwan.inflibnet.ac.in/profile/193106)

### Permanent Address

2/93, South Kuthagai  
Ayakkaranbulam – 2 Post  
Vedaranyam - Taluk  
Nagapattinam – Dt, 614 707

**Mobile:** 9894716566, 8903853566

---

### **Personal Details**

<b>Date of Birth:</b>	17.05.1967
<b>Marital Status:</b>	Married
<b>Sex:</b>	Male
<b>Nationality:</b>	Indian
<b>Religion:</b>	Hindu
<b>Community:</b>	Backward class
<b>Languages known:</b>	Tamil and English

### **Academic Qualification:**

- **S.S.L.C.**, Govt. Hr.Sec.School, Ayakkaranbulam, March 1982, **72%** (II Rank\*)
- **Hr. Sec**, Govt. Hr.Sec.School, Ayakkaranbulam, April 1984, **76%** (I Rank\*)
- **B. Sc. Chemistry**, Alagappa Govt.Arts College, Karaikudi, April 1987, **84%** (I Rank\*\*)
- **M. Sc. Chemistry**, Annamalai University, Annamalai nagar, May 1989, **66%**
- **M. Phil. Chemistry**, Annamalai University, Annamalai nagar, **November 1990**, **62%**
- **Ph.D. Chemistry**, Alagappa University, Karaikudi, May 2013, **Highly commended**  
(\*School level \*\*College level)

### **Teaching experiences**

- Working as **Assistant Professor in Chemistry** at **Rajah Serfoji Govt. Arts College, Thanjavur** since 21<sup>st</sup> July 2010.
- Worked as **Assistant Professor in Chemistry** at **H. H. The Rajah's College (Autonomous), Pudukkottai** during 9<sup>th</sup> July 2009 to 20<sup>th</sup> July 2010.
- Worked as a **Head**, P.G. Department of Chemistry, **J. J. College of Arts & Science, Pudukkottai** during 06<sup>th</sup> June 2005 to 7<sup>th</sup> July 2009.
- Handling Classes for weekend & Distance Program M. Sc. Students at Department of Industrial Chemistry, **Alagappa University**, Karaikudi from January 2007 to December 2008.
- Worked as a Lecturer in Chemistry Department, **A.V.C. College (Autonomous)**, Mannampandal, and Mayiladuthurai from August 2002 to May 2005, handled classes for both **B. Sc. & M. Sc.** students.
- Worked as a Lecturer (**FIP vacancy**) in P.G. and Research Department of Chemistry, **Khadir Mohideen College**, Adirampattinam during March 2000 to May 2002, handled classes for both **B. Sc. & M. Sc.** students.

## Computer proficiency

### Operating System:

- ➔ MS DOS
- ➔ Windows 10
- ➔ Windows 8.1
- ➔ Windows 7
- ➔ IOS 10
- ➔ Android
- ➔ Linux (ubuntu)

### Software Packages:

- ➔ MS Office 2007
- ➔ Page Maker
- ➔ Photoshop
- ➔ Coral Draw
- ➔ Origin
- ➔ Chems sketch

### Area of Interest:

- ➔ Organic Chemistry
- ➔ Inorganic Chemistry
- ➔ Spectroscopy
- ➔ Environmental Chemistry
- ➔
- ➔ Green Chemistry
- ➔ Electro Chemistry
- ➔ Conducting Polymers
- ➔ Phytochemistry

### Efficiency in Instruments Handling

- ➔ Cyclic Voltameter
- ➔ U.V. Spectrophotometer
- ➔ F.T.I.R. Spectrophotometer
- ➔ E. Q. C. M.
- ➔ Ostwald Viscometer

### Project Works Completed

**UGC Minor Research Project: Rs. 3 Lakh, 2015-2017 on** “Investigation on the Development of Deep Eutectic Solvents and their Applications for Green Synthesis of Organic Compounds”

### Project Works Done

**M. Phil.:** “Effect of Solvent on the Chemical Shift and Coupling Constant of PMR Spectra”, under the guidance of Prof. R. T. Sabapathymohan, Department of Chemistry, Annamalai University, Annamalainagar.

**Ph.D.:** “Investigation on the Development of Newer Electrochromic Materials”, under the guidance of Dr. P. Manisankar, Prof. & Head, Department of Industrial Chemistry at Alagappa University, Karaikudi.

## Project works Guided / Guiding

Class	Guided	Ongoing
M. Sc.	80	02
M. Phil.	27	-
Ph.D.	-	04

## Details of Publications & Conferences

Number of papers Published in Peer Reviewed Journals:	Ten*
Number of Seminars/Conferences Attended/Presented Paper:	Thirty*
Number of Refresher Course Attended:	Two*
Number of Orientation Course Attended:	One*
Number of Workshop Attended:	Six*
Number of Special Lecture Given:	Two*
Number of Workshop Organized:	One*

\*Details enclosed

**Place: Thanjavur**

**Date: 08.01.2021**

**(D. Ilangeswaran)**

## Paper published

1. “Assessment of Quality of Ground Water in Kandarakottai and Karambakudi Areas of Pudukkottai District, Tamilnadu”, D. Ilangeswaran, R. Kumar and D. Kannan, *journal of chemistry*, 2009, 6(3), 898-904. <http://dx.doi.org/10.1155/2009/628719>  
(Impact Factor = 1.300)
2. “Electrochemical Synthesis and Spectroelectrochemical Behavior of Poly(Diphenylamine-co-4,4’-Diaminodiphenyl Sulfone)” P. Manisankar and D. Ilangeswaran, *Electrochimica acta*, 55 (2010) 6546–6552. DOI:10.1016/j.electacta.2010.06.023 (Impact Factor = 4.798)
3. “Electrochemical synthesis, characterization and electrochromic behavior of poly(4-aminodiphenylamine-co-4,4’-diaminodiphenyl sulfone)” D. Ilangeswaran and P. Manisankar, *Electrochimica Acta*, 87 (2013) 895–904. DOI:10.1016/j.electacta.2012.09.040 (Impact Factor = 4.798)
4. “Chemical Synthesis and Characterization of Poly(phenylhydrazine-co-4,4’-diaminodiphenyl Sulphone)” D. Ilangeswaran and G. Lakshmi, *Chemical Science Transactions*, 2015, 4(2), 620-628. DOI:10.7598/cst2015.1008  
(Impact Factor = 0.875)
5. “Thermal and Physical Properties of Some Deep Eutectic Solvents” P.G. Ramesh and D. Ilangeswaran, *Proceedings of the International Conference on Nanomedicine (ICON-2019), Springer Proceedings in Materials book series (SPM)*, 2019, 34 – 41. [https://doi.org/10.1007/978-3-030-25135-2\\_4](https://doi.org/10.1007/978-3-030-25135-2_4)
6. “Thermal and Physical Properties of L-Lysine Based Deep Eutectic Solvents”, P. G. Ramesh and D. Ilangeswaran, *International Journal of Advanced Scientific Research and Management*, Special Issue 4, ICAMA-18, Apr 2019, 100 – 104.
7. “Sugar based DES a new efficient media for the synthesis of 2,6-diarylpiperidin-4-one derivatives”, K. Hemalatha and D. Ilangeswaran, *materialstoday: Proceedings*, Volume 33, Part 7, 2020, Pages 2671-2680, <https://doi.org/10.1016/j.matpr.2020.01.345>
8. “Preparation of some zinc chloride based deep eutectic solvents and their characterization”, K. Sarjuna and D. Ilangeswaran, *materialstoday: Proceedings*, Volume 33, Part 7, 2020, Pages 2767-2770, <https://doi.org/10.1016/j.matpr.2020.02.080>
9. “Synthesis and Characterization of Piperidin-4-one Derivatives Using Green Solvent”, K. Hemalatha and D. Ilangeswaran, *Asian Journal of Chemistry*; Vol. 32, No. 4 (2020), 981-984, <https://doi.org/10.14233/ajchem.2020.22589>
10. “One pot synthesis of 2,6-bis(2/4-hydroxyphenyl)piperidin-4-one derivatives using greener deep eutectic solvent media and their characterization”, K. Hemalatha and D. Ilangeswaran, *materialstoday: Proceedings*, Volume 33, Part 7, 2020, Pages 4255-4265. <https://doi.org/10.1016/j.matpr.2020.07.353>

## Refresher Course Attended

1. U.G.C. sponsored Refresher Course in Chemistry during 8-11-2004 to 30-11-2004 at Department of Chemistry, Annamalai University, Annamalinagar and obtained Grade "A"
2. U.G.C. sponsored Refresher Course in Chemistry during 30-01-2013 to 20-02-2013 at UGC-Academic Staff College, University of Kerala, Karaiavattom Campus, Thiruvananthapuram and obtained Grade "A"

## Orientation Course Attended

1. Attended an **Orientation course** from 09-07-2009 to 05.08.2009 at New College, Chennai and organized by the UGC – Academic Staff College, University of Madras, Chennai – 600005, jointly with **Tamilnadu State Council for Higher Eductaion**.

## Seminar/Symposium Participation/ Presentation of papers

1. **D. Ilangeswaran**, P. Anbusrinivasan and T. M. Satheeskannan presented a paper on "**The Study of Foliar Application of Nutrients on Plants to Minimize Environmental Pollution**" at Regional Symposium on Environmental Impact Assesment and Control, September 2-3,2004, conducted by Department of Chemistry, A.D.M. College for Women, Nagapattinam.
2. **D. Ilangeswaran**, and S. Anbazhakan presented a paper on "**Identification of Beta-Sitosterol from the Medicinal Herb *Leucas aspera* Spreng**" at State Level Seminar on Phytochemistry, September 25 2004, conducted by Department of Chemistry & Biochemistry, Theivanai Ammal College for Women, Villupuram.
3. **D. Ilangeswaran** and V. Subha presented a paper on "**A Study on the Efficiency of Waste Water Management in a Textile Industry**" at Golden Jubilee State Level Seminar on Innovative Approaches to Plant Sciences, February 24-25, 2005 conducted by Department of Botany, A.V.C.College (Autonomous), Mannampandal, Mayiladuthurai.
4. **D. Ilangeswaran**, P. Anbusrinivasan, G. Vasudevan, M. Suganthi and G. Madurambal presented a paper on "**Growth and Characterization of Undoped and Doped Benzophenone**" at **National Seminar** of Applied Research on Solid State Chemistry, 25 & 26<sup>th</sup> February 2005, Annamalai University and Indian Association of Solid State Chemistry and Allied Scientists (ISCAS).
5. **D. Ilangeswaran** and S. Anbazhakan presented a paper on "**Creation of Awareness of The Medical Plants and their Utilization through the Educational Institutions**" at U.G.C. Sponsored **National Seminar** on Present Status and Future Trends in Medicinal Plants Production, Marketing and Trade, March 2 – 3, 2005, organised by Department of Agricultural Economics, Faculty of Agriculture, Annamalai University.
6. **D. Ilangeswaran**, participated the **Inter-national** symposium on "**Organic Chemistry – Today and Tomorrow**" held from January 4-7, 2006 at the **Indian Institute of Science**, Bangalore.
7. **D. Ilangeswaran**, C. Vedhi, PL. Abiramasundari and P. Manisankar presented a paper on "**Synthesis and Characterization of Poly(diphenylamine-co-4,4'-diaminodiphenylsulphone)**" at **National seminar** on Recent Advances in Textile and Electrochemical Sciences", June 1-2, 2007 organized by Department of Industrial Chemistry, **Alagappa University**, Karaikudi.

8. **D. Ilangeswaran** and P. Manisankar presented a paper on “**Electrochemical copolymerization of 4-aminodiphenylamine and 4,4'-diaminodiphenyl sulfone**” at **National seminar on Recent Advances in Textile and Electrochemical Sciences**”, December 19 - 20, 2008 organized by Department of Industrial Chemistry, **Alagappa University**, Karaikudi.
9. **D. Ilangeswaran** participated in “**UGC Sponsored State Level Seminar on NMR Applications and Energy Materials**”, 21<sup>st</sup> February 2011 organized by **Rajah Serfoji Govt. College (Autonomous)**, Thanjavur.
10. **D. Ilangeswaran** and K. Uma presented a paper on “**Chemical Oxidative Synthesis of PolyDiphenylamine-Metal Nano Composites and their Characterization**” in “**UGC Sponsored National Seminar on Recent Trends in Polymer and Green Chemistry**”, 2-3rd February 2012 organized by **Rajah Serfoji Govt. College (Autonomous)**, Thanjavur.
11. **D. Ilangeswaran**, P. Maheswari and P. Manisankar presented a paper on “**Synthesis and Characterization of Poly(diphenylamine-co-phenylhydrazine)**” at **International Seminar on “Recent Advances in Textile and Electrochemical Sciences” (RATES 2013)**, March 21-23, 2013 organized by Department of Industrial Chemistry, **Alagappa University**, Karaikudi.
12. **D. Ilangeswaran** and A. Arulraj presented a paper on “**Harmful Effects of Common Chemicals Found in Junk Foods and Cosmetics**” at **International Conference on “Health Economics and Mangement**” on 9<sup>th</sup> January, 2015 organized by **PG & Research Department of Economics, Rajah Serfoji Govt. College (Autonomous)**, Thanjavur – 613005.
13. **D. Ilangeswaran**, K. Sarjuna and P. Manisankar presented a paper on “**Chemical Synthesis and Characterization of Poly(phenylhydrazine-co-1-naphthylamine)**” on March 6-7, 2015 at **National Seminar on “Frontier Areas in Chemical Technologies – 2015, FACTs – 2015**” organized by Department of Industrial Chemistry, School of Chemical Sciences, **Alagappa University**, Karaikudi.
14. **D. Ilangeswaran** and P.G. Ramesh presented a paper on “**Green Synthesis of 5,6-Bis[(2,4-dinitrophenyl)hydrazinylidene]-1,2,3,4-hexanetetrol using Glucose – Urea as Deep Eutectic Solvent**” on March 21-23, 2016 at **International Conference on “Frontier Areas in Chemical Technologies – 2016, FACTs – 2016**” organized by Departments of Industrial Chemistry, Nanoscience & Technology and Bioelectronics & Biosensor, **Alagappa University**, Karaikudi.
15. **D. Ilangeswaran** and I. Gnanasundaram presented a paper on “**Green Synthesis of Aryl substituted Urea using Glucose – Urea mixture as Deep Eutectic Solvent**” on March 21-23, 2016 at **International Conference on “Frontier Areas in Chemical Technologies – 2016, FACTs – 2016**” organized by Departments of Industrial Chemistry, Nanoscience & Technology and Bioelectronics & Biosensor, **Alagappa University**, Karaikudi.
16. **D. Ilangeswaran**, I. Gnanasundaram and K. Hemalatha presented a paper on “**Green Synthesis of 3-Methyl-2,6-diphenylpiperidin-4-one and its Hydrazine derivative Using a Deep Eutectic Solvent**” on October 21-22, 2016 at **National Seminar on “New Trends in Chemistry (NTC-2016)**” organized by Department of Chemistry, **Annamalai University**, Annamalainagar.
17. **D. Ilangeswaran** and P.G. Ramesh presented a paper on “**Green Synthesis of 3-Methyl-2,6-diphenylpiperidin-4-one and its Oxime Using a Newer Deep Eutectic Solvent of Glucose-MnCl<sub>2</sub>.4H<sub>2</sub>O**” on October 21-22, 2016 at **National Seminar on “New Trends in Chemistry (NTC-2016)**” organized by Department of Chemistry, **Annamalai University**, Annamalainagar.

18. **D. Ilangeswaran** and I. Gnanasundaram presented a paper on “**Green Synthesis of 4,4'-[5-(hydroxymethyl)furan-2-yl]methanediyl}dinaphthalen-1-ol) using a Deep Eutectic Solvent of Glucose, Urea & NH<sub>4</sub>Cl Mixture**” on January 20-21, 2017 at **National Seminar on “Recent Advances in Chemical and Environmental Research (RACE-2017)”** organized by Department of Chemistry, **Annamalai University, Annamalainagar.**
19. **D. Ilangeswaran** and R. Radhakrishnan presented a paper on “**Green Synthesis of 5,6-Bis(2-phenylhydrazinylidene)-1,2,3,4-hexanetetrol using Glucose – Thiourea as Deep Eutectic Solvent**” on January 20-21, 2017 at **National Seminar on “Recent Advances in Chemical and Environmental Research (RACE-2017)”** organized by Department of Chemistry, **Annamalai University, Annamalainagar.**
20. **D. Ilangeswaran** and K. Sarjuna presented a paper on “**Synthesis and Characterization of Newer Sugar Based Deep Eutectic Solvents**” on July 06-08, 2017 at **International Conference on “Frontier Areas in Chemical Technologies – 2017, FACTs – 2017”** organized by Departments of Industrial Chemistry, **Alagappa University, Karaikudi.**
21. **D. Ilangeswaran** and K. Hemalatha presented a paper on “**Green Synthesis of Some Piperidin-4-one Derivatives Using Sugar Based Deep Eutectic Solvent**” on July 06-08, 2017 at **International Conference on “Frontier Areas in Chemical Technologies – 2017, FACTs – 2017”** organized by Departments of Industrial Chemistry, **Alagappa University, Karaikudi.**
22. **D. Ilangeswaran, P. Sukanya, R. Periyanki, R. Ranjitha and P.G. Ramesh** presented a paper on “**Development of Newer Ethylene Glycol Based Deep Eutectic Solvents and Their Applications for the Synthesis of Some Piperidin-4-one Derivatives**” on July 06-08, 2017 at **International Conference on “Frontier Areas in Chemical Technologies – 2017, FACTs – 2017”** organized by Departments of Industrial Chemistry, **Alagappa University, Karaikudi.**
23. **D. Ilangeswaran, R. Suganya, G. Vaitheshwari, K. Ramasundaram and I. Gnanasundaram** presented a paper on “**Investigation on the Development of Newer Glycerol Based Deep Eutectic Solvents and Their Applications for the Synthesis of Some Piperidin-4-one Compounds**” on July 06-08, 2017 at **International Conference on “Frontier Areas in Chemical Technologies – 2017, FACTs – 2017”** organized by Departments of Industrial Chemistry, **Alagappa University, Karaikudi.**
24. **D. Ilangeswaran** participated in **UGC Sponsored National Seminar on “Current Trends in Application Oriented Chemistry”**, 26<sup>th</sup> October 2017 organized by **Rajah Serfoji Govt. College (Autonomous), Thanjavur.**
25. **D. Ilangeswaran** and K. Sarjuna presented a paper on “**Synthesis and Characterization of Newly Developed Mn<sup>2+</sup> and Zn<sup>2+</sup> Based Deep Eutectic Solvents**” on February 2-3, 2018 at **International Conference on “Recent Trends in Synthetic Methods and Material Chemistry (RTSMC - 2018)”** organized by Department of Chemistry, **Annamalai University, Annamalainagar.**
26. **D. Ilangeswaran** and R. Balaji presented a paper on “**Green Synthesis of Copper / Copper Oxide, Manganese / Manganese Oxide and Zirconium / Zirconium Oxide Nanoparticles Using EG – Ch. Cl Deep Eutectic Solvent**” on February 24-25, 2020 at **International Conference on “Frontiers in Chemical and Material Sciences (ICFCMS-2020)”** organized by Department of Chemistry, **Gandhigram Rural Institute, Dindigul.**
27. **D. Ilangeswaran** and P.G. Ramesh presented a paper on “**Thermal and Physical Properties of some L-Lysine based Ternary Deep Eutectic Solvents**” on February 24-25, 2020 at

**International Conference on “Frontiers in Chemical and Material Sciences (ICFCMS-2020)”** organized by Department of Chemistry, **Gandhigram Rural Institute**, Dindigul.

28. **D. Ilangeswaran** and K. Hemalatha presented a paper on **“One pot synthesis of some 2,6-bis(2/4-hydroxyphenyl)piperidin-4-one derivatives using greener deep eutectic solvent media and their characterization”** on February 24-25, 2020 at **International Conference on “Frontiers in Chemical and Material Sciences (ICFCMS-2020)”** organized by Department of Chemistry, **Gandhigram Rural Institute**, Dindigul.

29. **D. Ilangeswaran** and A. Sivakumar presented a paper on **“Synthesis of Zinc / Zinc Sulfide Nanoparticles using MA-GC Deep eutectic solvent”** on February 24-25, 2020 at **International Conference on “Frontiers in Chemical and Material Sciences (ICFCMS-2020)”** organized by Department of Chemistry, **Gandhigram Rural Institute**, Dindigul.

30. **D. Ilangeswaran** and K. Sarjuna presented a paper on **“Malonic acid based Deep Eutectic Solvents- A better solvent media for the synthesis of nanoparticles”** on February 24-25, 2020 at **International Conference on “Frontiers in Chemical and Material Sciences (ICFCMS-2020)”** organized by Department of Chemistry, **Gandhigram Rural Institute**, Dindigul.

### **Workshops Attended**

1. The **National Workshop on “Emerging Trends in Electrochemical Science and Technology”** held on 17th and 18th March 2006 at Raja College of Engineering and Technology, jointly organized by **ISTE** and **CECRI**, Karaikudi.

2. The **National Workshop on “Nanomaterials – Synthesis, Characterization and Applications”** held on 14th and 15th December 2006 at **Algappa University**, Karaikudi.

3. The **National workshop on “Green Process Techniques for Industrial Application”** held on March 20 – 21, 2009 at Department of Industrial Chemistry, **Alagappa University**, Karaikudi.

4. **UGC sponsored National workshop on “Chemistry – Our Environment, Our Life and Our Future”** on 22-23<sup>rd</sup> December 2011, organized by Department of Industrial Chemistry, School of Chemical Sciences, **Alagappa University**, Karaikudi.

5. **DST-FIST, DST-PURSE** and **UGC-SAP** sponsored **International workshop on “Frontier Arias in Chemical Technologies” (FACTs – 2014)** on 21-22<sup>nd</sup> February 2014, organized by Department of Industrial Chemistry, School of Chemical Sciences, **Alagappa University**, Karaikudi.

6. **“TRANSITION – 2015”** – Two days **Workshop for the College Chemistry Faculties** organized by **Department of Chemistry, Central University of Tamil Nadu** during 13<sup>th</sup> and 14<sup>th</sup> March 2015.



### **Special Lecture Given**

1. A lecture was given on “**Recent Trends on Nano Chemistry**” at the inaugural session of ChemStar, the Association of the Department of Chemistry of **Bon Secours College for Women, Thanjavur** on 25<sup>th</sup> July 2011.
2. A lecture was given on “**Knowing Chemistry**” at the inaugural function of Chemistry Association at the Department of Chemistry & Bio-Chemistry, **T.B.M.L. College, Porayar** on 30<sup>th</sup> July 2014.

### **Workshop organized**

An U.G.C. sponsored **Workshop** was organized on “**Manufacturing Techniques In House Cleaning and Refreshing Materials**” at **P.G. & Research Department of Chemistry, Rajah Serfoji Govt. College (Autonomous), Thanjavur** on 04.03.2014.