

Curriculum Vitae

Dr. S. ELANGO VAN, M.Sc., M.Phil., Ph.D (Physics)

Specialized in Condensed State of matter and Material Science

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Objectives: Career growth in the teaching profession with academic excellence and pursuit of further qualification and research.

Educational Qualification:

S.No	Degree	Institution	Year of Passing	Mark Percentage
1	Ph.D. (Physics)	Bharathiar University Coimbatore	Oct 2014	-
2	M.Phil (Physics)	Annamalai University Chidambaram	Jan 2004	76
3	M.Sc (Physics)	Annamalai University Chidambaram	May 2002	71
4	B.Sc (Physics)	Poompuhar College Melaiyur.	May 2000	74

- 2008-2014: **Doctor of Philosophy** Bharathiar University, Coimbatore

Specialization: Condensed State of matter / Material Science

Title: *Ultrasonic studies on some alkyl formates with primary alcohols at various temperatures*

Guide: Dr. S. Mullainathan, A.V.C College of Engineering, Mayiladuthurai, Tamilnadu, India

- 2002-2004: **Master of Philosophy**, Annamalai University, Chidambaram

Specialization: Spectroscopy

Title: *FTIR studies on Methylmethacrylate with primary alcohols*

Guide: Prof. Dr. P. Sivagurunathan, Annamalai University, Chidambaram

Overall Mark Percentage: 76% (I class).

- 2000-2002: **Master of Science**, Annamalai University, Chidambaram

Overall Mark Percentage: 71% (I class).

- 1997-2000: Bachelor of Science at Poompuhar College, Melaiyur. Affiliated to Bharathidasan University, Tiruchirappalli **Overall Mark Percentage: 74% (1 class).**

Working Experience:

S.No	Posting	Institution	Duration	Experience in years
1	Associate Professor	Wollega University, Ethiopia	2017-Till date	5
2	Assistant Professor	Easwari Engineering College, Ramapuram Chennai – 600 089	2010 - 2017	8
3	Lecturer	Jaya Engineering College Thiruninravur, Avadi, Chennai- 602 024	2007-2010	3
4	Lecturer	Thiruvalluvar College of Engineering and Technology, Vandavasi	2006-2007	1

Total Years of Teaching Experience:

- 25.10.2017 – Present (**5 years**) : ***Wollega University, Nekemte, East Wollega, Ethiopia***
- Designation: Associate Professor
- ❖ Member of the Curriculum designing committee
 - ❖ Prepared the lab manual for the Heat and Thermodynamics Laboratory
- 01.12.2010 to 09.10.2017 (**6 years 10 Months**) : ***Easwari Engineering College, Ramapuram, Chennai, Tamil Nadu, India***
- Designation : Assistant Professor
- 09.09.2010 to 30.11.2010 (**2 Months 21 Days**) ***Easwari Engineering College, Ramapuram, Chennai, Tamil Nadu, India***
- Designation : Lecturer
- ❖ Served as a Class Counselor
 - ❖ Served as Youth Red Cross Programme Officer
 - ❖ **Convener for the National Conferences**
 - ✓ Department of Science and Technology – Science and Engineering Research Board (DST-SERB) sponsored “2nd National Conference on Materials for Modern World” (NCMMW - 2015). Organized on Sep 28-29, 2015.
 - ✓ Department of Atomic Energy- Board of Research in Nuclear Sciences (DAE-BRNS) sponsored “3rd National Conference on Materials for Modern World” (NCMMW -2016). Organized on Sep 15-16, 2016.
 - ❖ Faculty-In-Charge, Department improvement (Kaizen)

- ❖ Served as Anna University Representative for conducting Examinations

➤ 03.08.2007 to 07.09.2010(3 years 1 Month): ***Jaya Engineering College, Thiruninravur, Avadi, Chennai, Tamil Nadu, India***

Designation : Lecturer

- ❖ Served as Class Counselor
- ❖ Served as National Service Scheme Programme Officer
- ❖ Served as Citizen Consumer Club Programme Officer

➤ 02.05.2006 to 02.08.2007(1 year 3 Months): ***Thiruvalluvar College of Engineering and Technology, Vandavasi, Tamil Nadu, India***

Designation : Lecturer

- ❖ Class Counselor and Assistant Coordinator Exam Cell

➤ ***Subjects handled***

- ❖ Heat and Thermodynamics
- ❖ Mechanics
- ❖ Wave and Optics
- ❖ Classical Mechanics
- ❖ Sustainable Sources of Energy
- ❖ Environmental Science and Engineering
- ❖ Engineering Physics – I & II
- ❖ Heat and Thermodynamics Laboratory
- ❖ Engineering Physics Lab

Research:

S.No	Description	Numbers
1.	Journal publications in various indexed journals	34
2.	Scopus/SCI/Web of Science indexed Journals	17
3.	Research Projects completed	03
4.	SERB, BRNS sponsored conferences organized as convenor	02
5	Patent published	01

Publications status:

❖ Total number of papers published in Journals	: 34
❖ Scopus,SCI	: 17
❖ Citations	: 84
❖ h – Index	: 05
❖ i10- Index	: 03

(https://scholar.google.co.in/citations?hl=en&user=h3kqx4EAAAJ&view_op=list_works&sortby=pubdate)

List of Publications:

1. **Sampandam Elangovan** “Thermophysical Studies of Chlorpheniramine with 1-Propanol at 303 K, 308 K, and 313 K in the Atmospheric Pressure.” **Journal of Chemistry**, Article ID 5333930, 2022, <https://doi.org/10.1155/2022/5333930>. (**Scopus, SCIE, Web of Science**).
2. **S Elangovan**, L Kebede, EK Senbeto “Intermolecular Interactions between Chlorpheniramine with 1-Butanol, 1-Pentanol, and 1-Hexanol,” **Russian Journal of Physical Chemistry A**,96,S1-S7 (2022). <https://doi.org/10.1134/S0036024422140084> Springer Nature (**Scopus, SCI, Web of Science etc**).
3. Kebede Legesse, Vijaya Bhaskar Rao Poluri, **Elangovan Sampandam**, “Electric Modulus Analysis of (1 – x) PbMg_{1/3}Nb_{2/3}O₃-(x)K_{1/2}Bi_{1/2}TiO₃ Ceramics” **Advances in Condensed Matter Physics**, Article ID 2450578 ,2022, <https://doi.org/10.1155/2022/2450578>
4. N Kangathara, V Sabari, L Saravanan, **S Elangovan***,” Synthesis, Characterization, and Comparison of Pure Zinc Oxide and Magnesium-Doped Zinc Oxide Nanoparticles and their Application on Ethanol Sensing Activities.” **Journal of Nanomaterials**, Article ID 1769278, 2022, <https://doi.org/10.1155/2022/1769278>.
5. N Kanagathara, S Sankar, L Saravanan, V Natarajan, **S Elangovan***, Dielectric and Impedance Spectroscopic Investigation of (3-Nitrophenol) -2,4,6-Triamino-1,3,5- Triazine: An Organic Crystalline Material.” **Advances in Condensed Matter Physics**, Article ID 6002025, 2022, <https://doi.org/10.1155/2022/6002025>.
6. N Kanagathara, VJ Thanigaiarasu, V Sabari, **S Elangovan**, “Density Functional Theoretical Computational Studies on 3-Methyl 2-Vinyl Pyridinium Phosphate” **Advances in Condensed Matter Physics**, Article ID 6488234,2022, <https://doi.org/10.1155/2022/6488234>
7. **S Elangovan**, N Kanagathara “FT-IR, FT-NMR and SHG studies on melaminiumacetate monohydrate-an organic crystalline salt” **AIP Conference Proceedings**, 2464, 030003 (2022); <https://doi.org/10.1063/5.0082520>
8. N Kanagathara, K Senthilkumar, V Sabari, V Ragavendran, **S Elangovan**, “Structural and Vibrational Investigation of Benzil-(1, 2-Diphenylethane-1, 2-Dione): Experimental and

- Theoretical Studies.” **Journal of Chemistry**, Article ID 5968496, 2022
<https://doi.org/10.1155/2022/5968496>.
9. **Sampandam Elangovan**, Tilahun Diriba Garbi, Ponnusamy Thillaiarasu. Study on Intermolecular Interaction between Chlorpheniramine and 1-Ethanol at Various Temperatures, **Recent Trends in Chemical and Material Sciences** 2, 1-9 ,2021
<https://doi.org/10.9734/bpi/rtcams/v2/10849D>
 10. Kidanu Begna, **Sampandam Elangovan** and Nemomsa Anbesse, “Prevalence of Haemonchosis in Sheep Slaughtered at Shambu Municipal Abattoir, Oromia, Ethiopia” **Applied Zoology**, 161 (1) 55853-55856,2021
 11. **Elangovan Sampandam**, Tilahun Diriba Garbi, Yilak Alemu Abbo “Intermolecular interaction studies of brompheniramine with 1-propanol at 303 K, 308 K and 313 K” **Chemistry Africa** ,3, 1101–1107 (2020). <https://doi.org/10.1007/s42250-020-00155-2>
 12. **Sampandam Elangovan** , Tilahun Diriba Garbi , Kerbed Legesse Kebeta and Boka Kumsa, “Mathematical Analysis of Intermolecular Interaction Studies Between Brompheniramine and 1-Hexanol at Various Temperatures Using Ultrasonic Velocity” **Elixir Condensed Matter Physics**, 142 , 54336-54339, 2020.
 13. **Sampandam Elangovan**, Tilahun Diriba Garbi, Senbeto Kena Etana, “Dielectric Relaxation Studies Between Brompheniramine with 1-Butanol, 1-Pentanol and 1-Hexanol at 303K” **Material Science Research India**, 3, 230-235, 2020. <http://dx.doi.org/10.13005/msri/170305>
 14. Ponnusamy Thillai Arasu, Panneer Selvam Seenidurai, Arumugam Murugan, **Sampandam Elangovan**, “Functional Modification of Borassus flabellifer Sheath Fibres Using Isocyanate” **Letters in Applied NanoBioScience**,10(1),1889-1895,2021. <https://nanobioletters.com/wp-content/uploads/2020/10/22846808101.18891895.pdf>
 15. **Sampandam Elangovan**, Tilahun Diriba Garbi, Ponnusamy Thillaiarasu, “Intermolecular Interaction between Chlorpheniramine and 1-Ethanol at various Temperatures” **Material Science Research India**, 17(2),162-169,2020. <http://dx.doi.org/10.13005/msri/170208>
 16. **Sampandam Elangovan**, Tilahun Diriba Garbi, Yilak Alemu Abbo, “Intermolecular Interaction Studies of Chlorpheniramine with 1-methanol at 303K” **International Journal of Research in Engineering, Science and Management**, 3(4), 400-402,2020.
 17. **Sampandam Elangovan*** , Abraham Abebe Kibret, Tilahun Diriba Garbi and Dereje Wakgari Amente, “ Intermolecular Interactions of Chlorpheniramine with 1-Methanol at 303K, 308K and 313K using Time Domain Reflectometry” **Elixir Condensed Matter Physics**, 128,52791-52793, 2019.

18. **Sampandam Elangovan*** , Dereje Wakgari Amente and Abraham Abebe Kibret, "Dielectric relaxation studies of brompheniramine with 1-methanol, 1-ethanol and 1-propanol at 303K" **Elixir Ultrasonics** 118, 50931-50932, 2018.
19. **Sampandam Elangovan** , Abraham Abebe Kibret , Tilahun Diriba Garbi , Dereje Wakgari Amente, "Physico Chemical Properties of Brompheniramine with 1-Methanol at 303K" **International Journal of Research in Engineering, Science and Management**, 1(12), 607-609, 2018.
20. **Sampandam Elangovan**, Kumera Assefa and Yilak Alemu Abbo "Intermolecular interactions of Brompheniramine with 1-pentanol at various temperatures." **Elixir Ultrasonics** 115, 49704(2018).
21. **Sampandam Elangovan** and Yilak Alemu Abbo "Intermolecular Interaction Studies of Binary Liquid Mixtures Using Time Domain Reflectometry at 303K" **International Journal of Chem Tech Research**, 11(2), 196-199, 2018 <http://dx.doi.org/10.20902/IJCTR.2018.110224>
22. **Sampandam Elangovan**, Dereje Wakgari Amente "Intermolecular Interaction of Methyl Formate with 1-butanol, 1-pentanol and 1-hexanol at 303K" **Material Science Research India**, 14, 212, 2017. <http://dx.doi.org/10.13005/msri/140220>
23. **S. Elangovan**, "Molecular Interaction Studies of Methyl Formate with Primary Alcohols at 303K Using Time Domain Reflectometry" **International Journal of ChemTech Research**, 10(6), 640-643, 2017.
24. **S. Elangovan** and S. Mullainathan "Ultrasonic studies on intermolecular interaction between n-methyl formate with 1-butanol, 1-pentanol and 1-hexanol at 303K." **Russian Journal of Physical Chemistry A**. 90, 1006 (2016). DOI: 10.1134/S0036024416050125
25. **S. Elangovan** "Ultrasonic studies on intermolecular interaction in binary mixture of n-methyl formate with 1-butanol at 308K". **International Journal of Chem Tech Research**. 8, 223 (2015) [http://sphinxssai.com/2015/ch_vol8_no1/4/\(223-227\)%20V8N1.pdf](http://sphinxssai.com/2015/ch_vol8_no1/4/(223-227)%20V8N1.pdf)
26. **S. Elangovan** and S. Mullainathan "Ultrasonic Studies in Binary Mixtures of n-Propyl formate with 1-alcohols at 303K" **Asian Journal of Chemistry**. 27(7), 2508 (2015). <http://dx.doi.org/10.14233/ajchem.2015.17957>
27. **S. Elangovan** and S. Mullainathan "Intermolecular Interactions in Mixtures of n-ethyl Formate with 1-methanol, 1-ethanol and 1-propanol on Density, Viscosity and Ultrasonic Data" **Russian Journal of Physical Chemistry A**. 88, 2108 (2014). DOI: 10.1134/S0036024414120061
28. **S. Elangovan** and S. Mullainathan "Ultrasonic studies in binary mixture of n-methyl formate with 1-ethanol at various temperatures". **Russian Journal of Physical Chemistry A**. 88, 601 (2014). DOI: 10.1134/S0036024414040086

29. **S. Elangovan** and S. Mullainathan "Intermolecular interaction studies in binary mixtures of n-methyl formate with 1-methanol at various temperatures". *Asian Journal of Chemistry*. 26,137 (2014). <http://dx.doi.org/10.14233/ajchem.2014.15350>
30. **S. Elangovan** and S. Mullainathan "Ultrasonic studies of mixtures of ethyl formate and n-alcohols in carbon tetrachloride". *Indian Journal of Physics*. 87, 373 (2013). DOI 10.1007/s12648-012-0230-z
31. **S. Elangovan** and S. Mullainathan "Ultrasonic studies of intermolecular interaction in binary mixture of n-methyl formate with 1-propanol at various temperatures". *Indian Journal of Physics*. 87,659 (2013). DOI 10.1007/s12648-013-0288-2
32. S Elangovan, S Mullainathan "Ultrasonic studies of brompheniramine with 1-butanol at 303, 308 and 313 K" *Elixir Ultrasonics* , 58, 15048-15052, 2013.
33. **S. Elangovan** and S. Mullainathan "Ultrasonic studies on intermolecular interaction in ternary mixtures of n-ethyl formate+1-propanol+benzene at 303K". *Indian Journal of Physics*. 86, 727 (2012). DOI 10.1007/s12648-012-0132-0
34. **S. Elangovan** and S. Mullainathan "Dielectric relaxation studies of ethyl formate with primary alcohols using Time Domain Reflectometry." *Material Science Research India*. 9, 81 (2012). <http://materialsciencejournal.org/pdf/vol9no1/MSRIVol09N1P81-83.pdf>

Research papers published in Conferences:

- Intermolecular interaction in binary liquid mixture of chlorpheniramine and 1-ethanol at 308 K by using ultrasonic technique. 3rd National Conference on Materials for Modern World (NCMMW-16), held during Sep 15-16, 2016. Department of Physics, Easwari engineering College, Chennai
- Intermolecular interaction studies in binary mixtures of brompheniramine with 1-butanol, 1-pentanol and 1-hexanol at 303K, **S.Elangovan** and S.Mullainathan, 2nd National Conference on Materials for Modern World (NCMMW-15), held during Sep 28-29, 2015. Department of Physics, Easwari engineering College, Chennai
- Ultrasonic studies in binary mixtures of chlorpheniramine with 1-alcohols at 303K **S.Elangovan** and S.Mullainathan, National Conference on Materials for Modern World (NCMMW-14), held during Sep 10-11, 2014. Department of Physics, Easwari engineering College, Chennai.
- Ultrasonic Studies of Brompheniramine with 1-Butanol at 303,308 and 313K. **S.Elangovan** and S.Mullainathan, International Conference on Biological Inorganic Chemistry (ICBIC 2013), held during Feb 22-23, 2013 Department of Chemistry, Periyar University, Salem.
- Dielectric Relaxation studies of Ethyl Formate with Primary alcohols using Time Domain Reflectometry. **S.Elangovan** and S.Mullainathan "National Conference on Recent

Advances in Materials and Technology (NCRAMAT)" held during January 6-7, 2012,
Department of Physics, Sathyabama University, Chennai.

RESEARCH PROJECTS:

S.No	Title of the Project	Funding Agency	Position	Status
1	Mathematical modeling of physicochemical interaction studies among amines and primary alcohols at various temperatures using ultrasonic data.	Wollega University	Principal Investigator	Completed
2	Intermolecular interaction studies among amines with primary alcohols using ultrasonic and dielectric data	Wollega University	Principal Investigator	Completed
3	Tribological Behaviors of Surface Functionalized (Substituted dithiocarbamates) MoS ₂ Nanoparticles – A Novel Type of Additives in Lubricating Oil	Wollega University	Co-Investigator	Completed

Declaration:

I hereby declare that all the above information's true and correct to the best of my knowledge and belief.

Yours sincerely

Dr. S.ELANGO VAN