

RESUME

Dr. S. Kalavathy, M.Sc., M.Phil.,P.GDDEC.,Ph.D

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Rajapalayam

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➤ Educational Qualifications:

Degree	Year	Results	Subjects	Institution / University
Doctor of Philosophy ^{\$}	2012	Highly commented	Physics Biomolecules- ultrasonics	Sri Chandrasekerendra Viswa mahavidyalaya University, Kanchipuram, India
Master of Philosophy [#]	2006	69%	Applied Spectroscopy –ESR spectroscopy	Annamalai University, Chidambaram, India
Post Graduate Diploma In Digital Electronics And Computer Science	1991	71%	Digital Electronics And Computer Science	Annamalai University, Chidambaram, India
Master of Science	1993	59%	Physics Elective: Electronics	Annamalai University, Chidambaram, India.
Bachelor Of Science	1990	70%	Physics Elective: Electronics	Standard Fireworks Rajaratnam College for women, sivakai, madurai kamaraj University, India.

^{\$} Thesis Title : Physico-Chemical behavior and ultrasonic studies of ternary mixtures and biomolecules

[#] Thesis Title: ESR Spectroscopic Studies Of Calcium Phosphates

➤ Academic experience

Name of the college	Period of Experiences
	Assistant Professor
Sree Sastha Institute Of Engineering And Technology	Sep 1998 - Sep 2007
Rajiv Gandhi College of Engineering	Sep 2007-Sep 2009
Chennai Institute Of Technology, Chennai.	July 2010 – Jan 2012
Alpha College Of Engineering, Chennai.	April 2012-may 2015
Rajapalayaqm Rajus college	March 2016-till date

➤ Subject taken

- Engineering Physics-I
- Engineering Physics-II
- Applied Physics
- Quantum Physics

- v. Engineering Physics Lab
- vi. Biomedical Instrumentation
- vii. Opto Electronics
- viii. Mechanics properties of matter and sound
- ix. Medical Physics
- x. Solar Energy
- xi. Solid State Physics
- xii. Modern Physics
- xiii. Major Physics Practical for B.Sc Physics Students

- **Field of Specialization :** ESR spectroscopic studies of Calciumphosphates
Ultrasonic studies of ternary mixtures and Biomolecules

Total Citations/H-index by the department in google scholar is 18/1

Topics of Research :

➤ **Papers in international Journal**

1. R. Palani. and **S. Kalavathy:** Acoustical and thermodynamical studies of ion-ion and ion-solvent interactions of some α -amino acids in purely aqueous and aqueous tetraethylammonium bromide medium at 303.15 K, Material Science Research India, **6(2)** (2009) 497.
2. R. Palani and **S. Kalavathy:** Acoustical studies of molecular interaction in ternary liquid mixture of cresols with benzaldehyde and tetrachloromethane solutions at 303, 308 and 313 K, J. Pure & Appli. Ultrason., **33(1)** (2011) 368.
3. R. Palani, and **S. Kalavathy:** Volumetric compressibility and transport studies on molecular interactions of mono, di and tri saccharides in aqueous sodium butyrate mixtures at 303.15 K, Adv. Appl. Sci. Res., **2(2)** (2011) 146.
4. R. Palani and **S. Kalavathy:** Excess transport properties of ternary mixtures of cresols with benzaldehyde and tetrachloromethane solutions at 303, 308 and 313 K, Arc. Appl. Sci. Res., **2(3)** (2011) 135.

➤ **Papers in Proceedings**

1. R. Palani and **S. Kalavathy:** Acoustical and thermodynamical studies of ion-ion and ion-solvent interactions of some α -amino acids in purely aqueous and aqueous tetraethylammonium bromide medium at 303.15 K. National Conference on Recent trends

in Bio-Science - 21st Millennium (BIOS 2009), Annamalai University, Chidambaram on 6-7, March 2009.

2. R. Palani and **S. Kalavathy**: Acoustical studies of molecular interaction in ternary liquid mixture of cresols with benzaldehyde and tetrachloromethane solutions at 303, 308 and 313 K. National Conference on Aggrandize of Life Science 2010 (ALISCI-2010), Annamalai University, Chidambaram on 29 – 30, March 2010.
3. R. Palani and **S. Kalavathy**: Excess transport properties of ternary mixtures of cresols with benzaldehyde and tetrachloromethane solution at 303, 308 and 313 K. National Conference on Recent Advances in Molecular Physics (NCRAMP'11), Queen Mary's College, Chennai on 10 – 11, February 2011.

➤ **Workshops, Symposium, Conference and Seminar attended**

1. **National Conference** on Recent trends in Bio-Science - 21st Millennium (BIOS 2009), Annamalai University, Chidambaram on 6-7, March 2009.
 2. **National Conference** on Aggrandize of Life Science 2010 (ALISCI-2010), Annamalai University, Chidambaram on 29 – 30, March 2010.
- **National Conference** on Recent Advances in Molecular Physics (NCRAMP'11), Queen Mary's College, Chennai

➤ **Online webminars attended 55**

➤ **Online FDP attended 10**

➤ **Research guidance**

✓ M.Phil. – Two

➤ **computer proficiency**

- ✓ Operating system : Windows Xp
- ✓ Working skills : MS office
- ✓ Software : C, Java and Python.

Extra Curriculum Activities

- NSS programme officer .
- NSS college level.

➤ **Personal Profile**

Father's Name	: Mr. K.Sankar Raja
Mother's Name	: Mrs. K.Muthammal
Date of Birth	: 16/04/1968
Sex	: Female
Marital status	: Married
Nationality	: Indian
Religion	: Hindu

Permanent Address : 45 ayothiram nagar,Madasamy koil
street,Rajapalayam.

- I hereby declare that all the information given above is true and written with best of my knowledge.

(S.KALAVATHY)