

STAFF PROFILE

Name : **Dr. E.KAVITHA**
Position : **Assistant Professor**
Department : **Physics**
E- mail : **eswarankavitha@gmail.com**
Phone : **9442477462**
Office Location : **Namakkal**



Education

Degree : **Ph.D.,**
University : **Annamalai University**
Year of Graduation : **2011**
Degree : **M.Phil.,**
University : **Bharathidasan University**
Year of Graduation : **2003**
Degree : **M.Sc.,**
University : **Periyar University**
Year of Graduation : **2002**

PROFESSIONAL EXPERIENCE

S.No	DURATION	DESIGNATION	UNIVERSITY/COLLEGE
1.	07.09.2007to 15.05.2017	ASSISTANT PROFESSOR	DEPT.OF PHYSICS, ANNAMALAI UNIVERSITY
2.	16.05.2017 to Till Date	ASSISTANT PROFESSOR	DEPT.OF PHYSICS, N.K.R. GOVT. ARTS COLLEGE FOR WOMEN, NAMAKKAL

RESEARCH INTEREST: MOLECULAR SPECTROSCOPY

LIST OF PUBLICATIONS

NATIONAL

1. **Kavitha.E.**,N.Sundaraganesan and S.Sebastian.2010. Molecular Structure, Vibrational Spectroscopic and HOMO,LUMO studies of 4-nitroaniline by density functional method. Indian J. Pure &Appl Phys.,**48**: 20-30.

INTERNATIONAL

1. Sundaraganesan.N.,**E.Kavitha.**,S.Sebastian., J.P.Cornard and M.Martel. 2009. Experimental FTIR,FT-IR (Gas phase),FT-Raman and NMR spectra,hyperpolarizability studies and DFT calculations of 3,5 Dimethylpyrazole. SpectrochimicaActa A.,**74**:788-797.
2. **Kavitha.E.**,N.Sundaraganesan,S.Sebastian and M.Kurt.2010. Molecular structure,anharmonic vibrational frequencies and NBO analysis of naphthalene acetic acid by density functional theory calculations.SpectrochimicaActa A., 77:612-619.
3. Govindarasu K. **E. Kavitha.** 2014. Vibrational spectra, molecular structure, NBO, UV, NMR, first order hyperpolarizability, analysis of 4-Methoxy-4'-Nitrobiophenyl by density functional theory. SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy **122**: 130–141.
4. Govindarasu,K., **E. Kavitha.**2014. Vibrational spectra, molecular structure, NBO, NMR, UV, first order hyperpolarizability, analysis of (S)-(-)-N-(5-Nitro-2-pyridyl) alaninol by Density functional theory. SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy **127**: 498–510.
5. Govindarasu,K., **E. Kavitha** , N. Sundaraganesan. 2014.Synthesis, structural, spectral (FTIR, FT-Raman, UV, NMR), NBO and first order hyperpolarizability analysis of N-phenyl benzene sulfonamide by density functional theory. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy **133**:417–431.
6. Govindarasu, K., **E. Kavitha.**2014. Molecular structure, vibrational spectra, NBO, UV and first order hyperpolarizability, analysis of 4-Chloro-DL-phenylalanine by density functional theory. SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy **133**: 799–810.
7. Govindarasu,K., **E. Kavitha** ,N. Sundaraganesan , M. Suresh , M. Syed Ali Padusha.2015. Synthesis, structural and spectral analysis of (E)-N'-(4 Methoxybenzylidene)pyridine-3-carbohydrazide dihydrate by density functional theory. SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy 135: 1123–1136.

8. Suresh,M., M.Syed Ali Padusha, K. Govindarajan and **E.Kavitha**.2015.Synthesis, structural and spectral analysis of 1-(pyrazin-2-yl) piperidin-2-ol by density functional theory. *SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy*.138:271-282.
9. Chidan Kumar C.S., K.Govindarasu, Hoong-KunFun, **E.Kavitha**,SiddegowdaChandrajou and ChingKheng Quah.2015. Synthesis, molecular structure, spectroscopic characterization and quantum chemical calculation studies of (2E)-1-(5-chlorothiophen-2-yl)-3-(2,3,4-trimethoxyphenyl)prop-2-en-1-one. *Journal of Molecular Structure*. 1085:63-77.
10. Govindarasu,K. and **E. Kavitha**. 2015. Structural, vibrational spectroscopic studies and quantum chemical calculations of n-(2,4-dinitrophenyl)-L-alanine methyl ester by density functional theory. *Journal of Molecular Structure*.1088:70-84.
11. Ramarajan ,D. , K. Tamilarasan , ZikoMilanovic , DejanMilenkovic , Zoran Markovic , S. Sudha , and **E. Kavitha**.2020.Vibrational spectroscopic studies (FTIR and FT-Raman) and molecular dynamics analysis of industry inspired 3-amino-4-hydroxybenzene sulfonic acid. *Journal of Molecular Structure*.1205:127579.
12. Sambathkumar, D. Zych, **E. Kavitha**, P. Ramesh, R. Jagatheesan.2021. Theoretical investigations on the electronic absorption properties of phenothiazine based organic materials for dye-sensitized solar cells. *Materials Today: Proceedings* 47(9): 1937-1941.
13. **Eswaran Kavitha** , Devarajan Ramarajan , Aleksandra Rakic´ , Dušan Dimic´, Shanmugam Sudha , Putta Narasimhan Nirmala. 2022. Structural, spectroscopic, quantum chemical, and molecular docking investigation of (E)-N´-(2,5-dimethoxybenzylidene)picolinohydrazide. *Journal of Molecular Structure*.1253:132259.

CONFERENCES/SEMINARS

INTERNATIONAL

1. Attended International Conference on “Advanced Functional Materials” (ICAFM-2023) on 3rd and 4th October 2023 at TBML College ,Porayar.

2. Attended International Conference on “ Physics of Advanced Materials and Molecules” (ICPAMM – 2020) on 30th and 23st January 2020 at Government Arts College , Vyasarpadi.
3. Attended International Conference on “Advanced Materials Processing and Technology(ICAMPAT-2020) on 6th and 7th March2020 at Arignar Anna Government Arts College, Villupuram
4. Attended (DST – SERB , BRNS , TNSCST , TANSCHHE) International Conference on “ Recent Advances In Material Science (ICRAMS – 2019)” on 4th to 6th February 2019 at National College Trichy.
5. Attended International Conference on “ Sustainable Scientific Advancements (ICSSA – 2019) “ on 22nd& 23rd February 2019 at Sri Vinayaga College of Arts and Science , Villupuram.
6. Attended International Conference on “ Functional Materials for Bio – Energy , Green Technology and Environmental Sustainability (FMGES – 2019) “ on 8th August 2019 at Trinity College for Women , Namakkal
7. Attended DST , SERB Sponsored International Conference on “ Advanced Materials for Energy and Environmental Applications “ (AMEEA – 2019)” on 22ndand 23rd August 2019 at Government Arts College Dahrmappuri.
8. Attended 3rdInternational Conference on “ Recent Trends in Applied Science and Technology (ICRTAST – 2019) “ on 19th to 21st September 2019 at SSN Institutions , Kallavakkam.

NATIONAL

1. Attended UGC Sponsored National Conference on “ Recent Advances in Materials Science (RAMS – 2019)” on 12th March 2019 , at G.T.N Arts College , Dindigul.
2. Attended National Conference on “ Semiconductors Surface , Alloys modeling and preparations (SSAMAP – 2019)” on 6th December 2019 at SreeSevuganAnnamalai College , Devakottai .
3. Attended National Conference on “Recent Innovations in Biomolecules and Spectroscopy” (NCRIBS-2022) on 4th November 2022 at Kandaswami Kandars College, Velur, Namakkal Dt.

AWARDS AND HONORS:

1. Dr.APJ.ABDUL KALAM Award for Scientific Excellence-2019. MARIANA LABS RESEARCH AND DEVELOPMENT
2. PERASIRIYAR KALAIMANI AWARD-2019.The Contribution of Teacher in Social Development by Kaviyarasar Kalai Tamil Sangam(Govt.Reg.No:165/2009)

COURSES TAUGHT: 1. B.Sc., PHYSICS

2 .M.Sc., PHYSICS

PROFESSIONAL MEMBERSHIPS: NIL

PROJECTS AND GRANTS: NIL

CONTACT INFORMATION

Office Hours : **10 am- 4 pm**
Office Phone : **04286 221154**
Email : **nkgacin@rediffmail.com**
Website : **<https://www.nkgacw.org>**