

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY - 18
STAFF PROFILE

PERSONAL INFORMATION

1. Name : Dr. M. KAVIMANI

2. Date of Birth : 17-04-1990

3. Address :

Residential	Office
1/83 AGRAHARAM STREET,PUDUKKUDI VILLEG, MELAVALADI POST,LALGUDITK, TRICHYDT, 621218	1/83 AGRAHARAM STREET,PUDUKKUDI VILLEG, MELAVALADI POST,LALGUDITK, TRICHYDT, 621218

4. PAN Number : DCJPK8410A

5. Aadhar Card Number 473797754634

ACADEMIC INFORMATION

6. Designation & Department: Assistant Professor, Physics

7. Educational Qualification:

Degree	Year	College/University
Ph.D	2019	Arignar Anna Government Arts College, Musiri
M.Phil	2013	National College, Trichy
MA (T)	2023	Alagappa University, Karaikudi
NET	2012	CSIR-UGC
PGDCA	2012	Bharathidasan University, Trichy
M.SC	2012	Srimathi Indira Gandhi College, Trichy
B.SC	2010	Chidambaram Pillai College for Women, Mannachanallur

8. Experience :

Date of Joining	Institution	Year of Experience
17-06-2018	Cauvery College For Women	4years

9. Areas of Specialization : Spectroscopy, Crystal Growth, Computational Chemistry

10. Languages known : Tamil, English

11. Subjects Taught :

UG	Electronics, Atomic and Molecular Physics, Heat and Thermodynamics, Communication physics, Theoretical physics, Allied physics I and II, Applied Physics I and II, Optics, Classical and Quantum Physics
PG	Statistical Mechanics, Microprocessor, Quantum Mechanics, Physics for competitive Examination, Nonlinear Optics

12. Details of Publications :

S.No.	Journal Name & Volume	Year of Publication	ISSN Number	Title of the Paper	Impact Factor
1.	Spectrochimica Acta part A Vol.135	2015	1386-1425	Conformational stability, vibrational (FT-IR and FT-Raman) spectra and computational analysis of m-trifluoromethyl benzoic acid	2.098
2.	Spectrochimica Acta part A Vol.135	2015	1386-1425	Conformational stability, vibrational and NMR analysis, chemical potential and thermodynamical parameter of 3-tert-butyl-4-hydroxyanisole	2.098
3.	Spectrochimica Acta part A Vol.150	2015	1386-1425	Conformational stability, spectroscopic and computational studies, HOMO-LUMO, NBO, ESP analysis, thermodynamic parameters of natural bioactive compound with anticancer potential of 2-(hydroxymethyl)anthraquinone	2.098
4.	Journal of Molecular Structure Vol.1147	2017	0022-2860	Spectroscopic investigation, vibrational assignments, Fukui functions, HOMO-LUMO, MEP and molecular docking evaluation of 4-[(3, 4-dichlorophenyl)amino]-2-methylidene-4-oxo-butanoic acid by DFT method	2.011
5.	Journal of Molecular Structure Vol.1141	2017	0022-2860	Potentially useful to NLO materials: 4-Chloro-3-(trifluoromethyl)aniline, 4-bromo-3-(trifluoromethyl)aniline and 4-fluoro-3-(trifluoromethyl)aniline are combined experimental and theoretical vibrational analysis	2.011

6.	Journal of Molecular Structure Vol.1149	2017	0022-2860	Quantum chemical calculation of molecular structure evaluation, Hirshfeld, DSSC and docking studies of 4-nitrophenylacetic acid.	2.011
7.	International Journal of Pure and Applied Research Vol. 1(1)	2017	2455-474X	Conformational stability, Spectroscopic (FT-IR, FT-Raman) analysis, Fukui function, Hirshfeld surface and docking analysis of Naphthalene-2-yloxy acetic acid by density functional theory	4.977
8.	SpectrochimicaActa partA Vol.198	2018	1386-1425	Topological analysis (BCP) of vibrational spectroscopic studies, docking, RDG, DSSC,Fukuifunctions and chemical Reactivity of 2-methylphenylacetic acid	2.98
9.	Journal of Molecular Structure, Vol. 1155	2018	0022-2860	Molecular docking, vibrational, structural, electronic and optical studies of {4-(2,6)dichlorophenylamino-2-methylidene-4-oxobutanoic acid and 4-(2,5)} dichlorophenyl amino-2-methylidene-4-oxobutanoic acid – A comparative study	
10.	International journal of pure and applied biomedical sciences Vol. 1-2	2016	2582-2845	FT-IR, FT-Raman, HOMO- LUMO, MEP, NBO analysis and molecular docking study of 4-[(2, 3-dichloro phenyl) amino]-2-methylidene-4-oxobutanoic acid}	4.71
11.	Computational physics Vol. 92	2016	2229-712X	Molecular structure, Vibrational spectra, non-linear optical properties, and docking study of 2-Methylidene -4- oxo-4-[(2, 4, 5-trichlorophenyl) amino] butanoic acid	4

11. Details of Papers Presented:

S. No.	Date	Organizer	Name of the Seminar	Paper Title
1.	22 nd – 26 th February 2016	Department of Physics, Periyar University, Salem, TamilNadu, India.	National Conference on Advanced Material (NCAM)	Conformational stability, Spectroscopic (FT-IR, FT-Raman) analysis, Fukui function, Hirshfeld surface and docking analysis of Naphthalene-2-yloxy acetic acid by density functional theory
2.	8 th –9 th December 2016	Department of Physics, St. Joseph's College of Arts and Science (Autonomous), Cuddalore, India	International Conference on Nonmaterial's and Molecular Research (ICNMR)	Quantum chemical calculation of molecular structure evaluation, Hirshfeld, DSSC and docking studies of 4-nitrophenylacetic acid
3.	5 th – 8 th November 2016	University of Lucknow, Lucknow, India.	International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS – 2016)	Hirshfeld surface, Spectroscopic investigation (FT-IR, Raman), reactive descriptor and molecular docking study of Naphthalene-1-yl acetic acid
4.	16 th – 17 th December 2016	Department of Physics, K.S.R. College of Arts and Science for Women, Tiruchengode, Namakkal, India	National Conference on Computational and Experimental Physics of Functional Materials (NCCEPEFM)	Topological analysis (BCP) of vibrational spectroscopic studies, docking, RDG, DSSC, Fukui functions and chemical Reactivity of 2-methylphenylacetic acid
5.	07 th January 2017	Research Department of Chemistry, Jama Mohamed Colleg (Autonomous), Tiruchirappalli, India.	International Conference on Chemical and Environmental Research (ICCER)	Molecular docking, Hirshfeld surface, RDG and molecular spectroscopic investigation of 4-hydroxyphenylacetic acid
6.	15 th February 2017	Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli, India.	Advancements In Materials (NLS–RAM 17)	Biological study, Spectroscopic investigations, Fukui functions and RDG analysis of 4-chlorophenylacetic acid

12. Details of Seminars/Conferences/Workshops Attended:

Year& Date	Organizer	Title	National/ International	Topic
04.07.2016	AU-KBC Research Centre, MIT Campus of Anna University, Chennai.	Workshop	National	Drug Discovery and Development
06.08.2017	Bharathidasan University, Trichy.	Workshop	National	Bioinformatics Techniques for Modeling and Analysis” organized by Department of Marine Biotechnology
09.10.2017	Department of Material Science Care college of Engineering, Trichy	Workshop	National	Advancement in Characterization Techniques
03.05.2020	PG & Research Dept of Physics, Cauvery College for Women (Autonomous)	Webinar	National	How Nano science and Technology Inspired from Nature and Transforming the World?
04.05.2020	Dept of Chemistry, Cauvery College for Women (Autonomous)	Webinar	National	Chemistry Behind MRI Contrast Agents

13. Details of Incharge/Participation in Extracurricular Activities:**(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):**

Nature of Activity	Period of In charge
Cultural	2019-2020

14. Details of Study Materials/Books written and published:

Title of book	Publisher	ISBN
Biological and Spectroscopic investigation of 4-hydroxyphenylacetic acid	LAMBART Academic	978-613-44707-7