CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) STAFF PROFILE

PERSONAL INFORMATION

1. Name : Dr. K. KANNAGI

2. Date of Birth : 23-01-1969

3. Address :

Residential	Office
NO: 257/B, MACHINE STREET,	ASSISTANT PROFESSOR,
MANGAMMALPURAM, ANBIL(PO)	DEPT OF PHYSICS,
LALGUDI(TK) TRICHY(DT)	CAUVERY COLLEGE FOR WOMEN,
E-MAIL:kannagi.natraj@gmail.com. Mobile:9942926907, 8838673467	TRICHY-18

ACADEMIC INFORMATION

4. Designation & Department:

5. Educational Qualification:

Degree	Year	College/University
SET	2017	Mother Theresa University
Ph.D.	25 th March-2015	Seetha Lakshmi Ramasamy College. Bharathidasan university, Trichy
M.Phil	March-2008	Bharathidasan university, Trichy
M.Sc.,	May-2006	Annamalai University, Chidambaram.

6. Experience:

Date of Joining	Institution	Year of Experience
18-08-2009	Bharathidasan University Constitution College, Lalgudi.	3Years10 Months
12-06-2013	Cauvery College for Women, Trichy.	8 Years 1 Months

7. Areas of Specialization : Ultrasonic's and spectroscopy, Nano science, EMT,

Crystal growth and particle physics.

8. Languages known : Tamil and English

9. Subjects Taught :

UG	Properties of matter
CG	Electricity and Electro
	magnetism Analog Electronics
	Material Science
	Heat & Thermo dynamics
	Digital Electronics &
	Microprocessor
	Fundamentals Value
	Education
	Thermal and Statistical Physics.
	Atomic and Nuclear physics
	Principles of Information
	Technology Optics and
	spectroscopy Programming in
	C++
	Applied Physics-I
	Applied Physics-II
PG	Nuclear and Particle Physics
	Atomic and molecular physics
	Elecromagnetic Theory
	Introduction to Nano Science and Nano Technology
	Electronics
	Non linear optics
	Nano physics
M.Phil	Advanced physics
141.1.1111	-

10. Research Supervision:

Univers	sity from where		Thesis	
guide	ship obtained	Completed	Year of	Pursuing
		(in numbers)	Completion	(in numbers)

M.Phil	-		
P.hD	-		

11. Details of Publications:

Journal Name &	Year of	ISBN Number	Name of the	Impact
Volume	Publication	15DN Number	Paper	Factor
Journal of Acoustical society of India (JASI) 38(2) 87- 91 Elixir	2011		Thermo –Acoustic and spectroscopic study of polymer salt in non – aqueous medium using ultrasonic velocity. Study of vibrational spectra and	
Ultrasonic (49) 10018-10023	2012		solvation number in non- aqueous solutions of L-Arginine through ultrasonic technique.	
International Journal of current research and review 4(16) 156-166	2012		Thermodynamic and Spectroscopic investigation of polar protic solutions of L- Arginine mono hydrochloride	
Journal of Basic applied Physics 1(3) 96-101	2012		Acoustic and Spectroscopic study of L-Arginine derivative in non- aqueous medium	
Indian Journal of pure and applied Physics 52(3) 155-161,	2014	ISSN:0019- 5596	Solvation effect and Thermochemical study of some L- Arginine salts in polar Solvent using Ultra sonic velocity.	0.854
International journal of science and research(IJSR) 5(3) 1314-1319,	2016	ISSN:2319- 7064	FTIR Spectral Analysis &Physico- Chemical Studies on L-Arginine Salts in Non Aqueous Solution at Various Temperatures	5.61

International Journal of recent scientific research (IJRSR) 7(7) 12363-12369	2016	ISSN: 0976- 3031	Thermo – Acoustics and salvation study of protein salt solutions using ultrasonic technique	5.97
nternational Research Journal of Engineering and Technology 4(9)	2017	e.2395- 0056 p.2395- 0072	Acoustic, thermodynamic and solvation study of protein salt solutions using Ultrasonic technique.	5.181
Elsevier –Science Direct-Applied Surface Science.	2018	ISSN: 0169- 4332 456(2018) 13- 18	Super Critically Synthesized V2O5 spheres based supercapacitors using polymer electrolyte.	4.793
Elsevier –Science Direct- Ceramics International	2020	19634 – 19638/ ISSN:0272 -8842 46, 11, part B	Effect of lanthanum doping on the structural, electrical, and magnetic properties of Mn0.5Cu0.5LaxFe2 –xO4 Nano ferrites	3 .450
Materials Technology – Advanced Performance materials – Taylor & Francis	2020	1080-18109	Preparation and Characterization of MnS@Mn3O4/C nano flakes for hybrid supercapacitor applications	1.738
AIP Conference Proceedings	2020	110041 – 110044 0094-243X (print) 1551-7616 (web)	Synthesis and Characterization of 3D Flowerlike CO3 O4 for Supercapacitor Application	0.46

12. Details of Papers Presented:

S.No	Title of the Conference / Seminar / Workshop	LEVEL International / National / Regional / State Level	Title of the Paper Presented	Organization Name	Date
1	International Conference on Recent frontiers in Applied Spectroscopy.	International	Infrared and UV-Visible spectral analysis of polyaniline sails in nonaqueous medium.	AnnamalaiUniversity.	22.09.2010 - 24.09.2010.
2	National Symposium on Acoustics.	National	Thermo-acoustic and spectroscopic study of polymer salt in non-aqueous medium using Ultrasonic velocity.	PT.L.M.S.Govt.Autonomous P.G, College, Rishikesh.	11.11.2011- 13.11.2010.
3	National Conference on exploring the frontiers of vibrational spectroscopy.	National	Intermolecular interaction studies in L-Arginine and its derivatives with non-aqueous solutions	Women's Christian College, Nagercoil.	1.08.2011- 02.08.2011
4	National Symposium on Acoustics.	National	A Study of Acoustic and infrared spectral analysis of L-Arginine mono HCL in non-aqueous solution	Bundelkhand University, Jhansi (UP),India.	17.11.2011- 19.11.2011.
5	National Symposium on Acoustics.	National	Analysis of solvation number of non-aqueous of L-Arginine through Ultrasonic velocity.	Bundelkhand University, Jhansi (UP),India.	17.11.2011- 19.11.2011.
6	National Symposium on Acoustics.	National	Thermodynamic and spectroscopic investigation of L-Arginine methyl ester di-HCL.	Bundelkhand University, Jhansi (UP), India.	17.11.2011- 19.11.2011.
7	International Conference on Raman Spectroscopy.	International	FT-IR Spectral analysis of some protein salts in polar protic solvent.	Thiruvananthapuram, Kerala.	10.08 2012.
8	National Symposium on Acoustics.	National	Intermolecular interaction study of N alpha –N- Benzoyl L-Arginine in non- aqueous solution	KSREngineering College,Thiruchengodu.	25.11.2012- 27.11,2012.

9	National Symposium on Acoustics.	National	Solvation effect and FTIR Spectral analysis of NW- Nitro L-Arginine methyl ester HCL in Non aqueous medium using ultrasonic velocity	KSREngineering College,Thiruchengodu.	25.11.2012- 27.11,2012.
10	National Symposium on Acoustics.	National	Thermodynamic and Spectroscopic study on Nitro derivative of amino acid salt solution using ultrasonic velocity	KSREngineering College,Thiruchengodu.	25.11.2012- 27.11,2012.
11	National Symposium on Acoustics.	National	Comprehensive analysis of thermodynamic and solvation effect of some L- Arg salts in non-aqueous medium	CSIR-National Physical Laboratory New Delhi, India.	25.11.2013 - 27.11. 2013
12	National Symposium on Material Science NLS-RAM 2017	National	Paper presented – inter molecular interaction Studies on L-Arginine and its derivatives with non- aqueous solution	Dept. of Physics Jamal Mohammed College, Trichy	15-02-2017
13	International Conference on Material Science and Technology (ISMST	International	Paper presented – Acoustics thermo dynamic and solution study of protein salt solution using ultrasonic technique.	Dept of Physics, Mother Teresa University Kodaikanal	04.08.2017
14	4 th International Conference on Nano Science and Nano Technology (ICONN-2017)	International	Paper Presented –Synthesis of Cobalt oxide Nano Structures for with performance super capacitors	Dept of Physics, SRM University Kattangulathur, Chennai	09.08.2017- 11.08.2017
15	i-SET, 2018 International Conference on Sustainable Energy Technologies	International	Paper Presented –Synthesis and characterization of ZnO by co-precipitated method.	School of Physics & School of chemistry, Bharathidasan University, Trichy	27.06.2018- 28.06.2018
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16	5th International Conference on Nano Science and Nano Technology (ICONN-2019)	International	Paper Presented Synthesis and characterization of ZnS by co-precipitated method.	Dept of Physics, SRM University Kattangulathur, Chennai	28.01.2019- - 30.01.2019
17	International Web Conference on Advanced Materials (IWCAM)	International	Thermodynamic and Solvation effects of Nitro Amino Acids in Non aqueous Solutions from low temperature to high.	PG& Research Department of Physics-School of Physical Sciences, St. Joseph's College (Autonomous).	28-02-2019
18	International NANOSMART- 2019	International	Paper Presented onFlowery Co2 O4 synthesized via hydrothermal method for super capacitor application	Universiti Tenaga National (The Energy University) Kula Lumpur, Malaysia	27.07. 2019 29.07. 2019
19	International Conference on Physics and Chemistry of Materials in Novel Engineering Applications (PCMNA-20)	International	Synthesis And Characterization of 3D Flower like CO3O4 for Supercapacitor Applications.	AIP Conference proceedings, Departments of Chemistry and Physics& Mechanical Engineering	06.02.2020- 07-02-2020

			Intermolecular
Sep.1 st &2 nd - 2011	Women's Christian College, Nagarcoil	National Conference on exploring the frontiers of vibrational spectroscopy	interaction studies in L-Arginine and its derivatives with non- aqueous solutions
17 th - 19 th .Nov- 2011.	Bundalkhand University, Jhansi (UP),India.	National Symposium on Acoustics.	Analysis of solvation number of non- aqueous of L- Arginine through Ultrasonic velocity.
17 th - 19 th .Nov- 2011.	Bundalkhand University, Jhansi (UP),India.	National Symposium on Acoustics.	Thermodynamic and spectroscopic investigation of L-Arginine methyl ester di-HCL.
17 th - 19 th .Nov- 2011.	Bundalkhand University, Jhansi (UP), India.	National Symposium on Acoustics.	A Study of Acoustic and infrared spectral analysis of L- Arginine mono HCL in non-aqueous solution
Aug-10 th 2012.	Thiruvananthapur am, Kerala.	International Conference on Raman Spectroscopy.	FT-IR Spectral analysis of some protein salts in polar protic solvent
Nov-25 th -27 th -2012.	KSR Engg.college, Thiruchengodu	National Symposium on Acoustics.	Intermolecular interaction study of N alpha –N-Benzoyl L- Arginine in non- aqueous solution
Nov-25 th -27 th -2012.	KSR Engg.college, Thiruchengodu	National Symposium on Acoustics.	Thermodynamic and Spectroscopic study on Nitro derivative of amino acid salt solution using ultrasonic velocity
Nov-25 th -27 th -2012.	KSR Engg.college, Thiruchengodu	National Symposium on Acoustics.	Solvation effect and FTIR Spectral analysis of NW-Nitro L- Arginine methyl ester hcl in own aqueous medium using ultrasonic velocity
Nov-25 th -27 th -2013.	CSIR-National Physical Laboratory New Delhi, India.	National Symposium on Acoustics.	Comprehensive analysis of thermodynamic and solvation effect of some L-Arg salts in

			non-aqueous medium
15-02-2017	Dept. of Physics Jamal Mohammed College, Trichy	National Symposium on Material Science NLS- RAM 2017	Inter molecular interaction Studies on L-Arginine and its derivatives with non-aqueous solution
04.08.2017,	Dept of Physics, Mother Terasa University Kodaikanal	International Conference on Material Science and Technology (ISMST	Acoustics thermo dynamic and solution study of protein salt solution using ultrasonic technique.
9 th - 11 th - 08.2017.	Dept of Physics, SRM University Kattangulathur, Chennai	4 th International Conference on Nano Science and Nano Technology (ICONN-2017)	Synthesis of Cobalt oxide Nano Structures for with performance super capacitors
27 &28 June - 2018	School of Physics & School of chemistry, Bharathidasan	i-SET, 2018 International Conference on Sustainable Energy Technologies	Synthesis and characterization of ZnO by coprecipitated method.
29-11-2018 to 02-11-2018	University, Trichy Cauvery College for Women, Trichy-18	Capacity Building Workshop on e-Content Development	Regional Level E-Content Development
28 / 01/.2019 - 30/01/2019	Dept of Physics, SRM University Kattangulathur, Chennai	5 th International Conference on Nano Science and Nano Technology (ICONN-2017)	Synthesis and characterization of zns nanostructures through simple precipitation strategy
28 th February, 2019.	PG& Research Department of physics, School of physical sciences, St.Joseph's College(Autonomous), Tiruchirappalli-2	International web conference on advanced Materials(IWCAM- 2019)	Thermodynamic and salvation effects of Nitro Amino Acids in Non-aqueous solutions from low temperature to high

05.07.2019	IPC –Inorganic and Physical Chemistry Department, IISC Bangalore	One day Technical meet In Honour of Prof.S.Vasudevan on Recent Advances in Materials Science	Participated
06.02.2020- 07.02.2020	Kumaraguru College of Technology, Coimbatore	International Conference on Physics and Chemistry of Materials in Novel Engineering Applications,	Synthesis and Characterization of 3D Flowerlike CO3 O4 for Super capacitor Application
17-02-2020 – 18-02-2020	Cauvery College for Women(Autonomo us) Trichy-18	UGC-PARMARSH A two day seminar on NAAC revised accreditation framework	Participated
15.06.2020- 19.06.2020 -	Godavari Institute of Engineering and Technology, Kakinada	Online FDP	Molecules and Beyond the Molecules

Details of Seminars / Conferences / Workshops Attended:

Year &	Organizer	Title	National /	Topic
Date			Internation al	
Jan.24 th &25 th -2009	Seshayee Institute of Technology, Trichy	Canada-India Institutional Co- operation Project Workshop on Multimedia Language Lab & Communication	International	Workshop on Multimedia Language Lab & Communication Skills.
		Skills.		
Nov.26 th - 28 th - 2009.	Research Centre Imarat, Hyderabad & Acoustics society of India	National Symposium on Acoustics Hyderabad	National	National Symposium on Acoustics
14.12.12	Forum of Wish &NSS of Bharathidasan University.	Forum of Wish &NSS of Bharathidasan University.	Regional	Workshop on women involved in sanitation and hygiene.

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6 th April 2013	Aided College Teachers Association- (ACTA) & Jammal Mohammed College	. Aided College Teachers Association- (ACTA) & Jammal Mohammed College	State –level	State level VI Academic Conference on"Crises In Higher Education- An Indian Perspective".
07.08.2013	CARE Group of Institutions MSE Dept.	CARE Group of Institutions MSE Dept.	Regional	Workshop on XRD and SEM
30 th-31 St 05 -2017	Dept of Physics, Sethu Institute of Technology, pulloor, Kariapatti, Virudhunagar ,Thirunelvelli	Dept of Physics, Sethu Institute of Technology , pulloor, Kariapatti, Virudhunagar Thirunelyelli	National	National Level Work shop on Microscopic characterization
30-06-2018	PG& Research Deprtment of physics,National College(Autonomou s)	PG& Research Deprtment of physics,National College(Autonomous) Tiruchirappalli-01	. National	Centenary Year Celabrations, Workshop on computer based science experiments
1 st ^&2 ⁿ d March- 2019	"Division of Applied Sciences and Humanities of "MIT Campus Anna University, Chennai- 44	Two Days training programme on The State of Art Analytical Equipment (TPSAE- 2019)	National	Two Days training programme on The State of Art Analytical Equipment(TPSA E-2019)
6-10/08/2018	Global Initiative For Academic Networks(GAIN)	Crystal Growth of Functional and Exotic Materials	State level	Centre for High Pressure Research Department of Physics, Bharathidasan University, Trichy
20-08-2019 - 30 /08 / 2019	INUP- CeNSE - IISC Bangalore & MHRD, Govt. of India	Advanced Training Program on Nanofabrication and Characterization Techniques	National	Ten days Training Program on Micro fabrication Techniqueon Photovoltaic Cell Module

13. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National /	
		International	Topic
14-09-2019	One day Extension Lecture Programme by Dr. M. Nethaji, Chief Scientist, IPC Department, IISC, Bangalore	National	Crystallography an overview

VISITING RESEARCH FELLOWSHIP

Worked as a **Visiting Project Fellow** in the Inorganic & Physical Chemistry Lab , IISC Bangalore from 21.06.2019 to 20.07.2019 under the guidance of **Dr.M.Nethaji** , **Chief Research Scientist Inorganic & Physical Chemistry Indian Institute of Science Bangalore.**

14. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
6 – 10, August 2018.	CGFEM'18, International Workshop on Crystal growth of functional and exotic materials	GIAN, Government of India- MHRD& Centre for High Pressure Research, School of Physics, Bharathidasan University, Trichy
29-10-2018 to 2-11-2018	Cauvery College for Women & The Department of Educational Technology, BDU, Trichy.	Cauvery College for Women
20-12-2018 Microsoft (OneNote Innovation Education)		Cauvery College for Women
15 – 20 /07/2019	AICTE Sponsored Share & Mentor Institutions (Margdarshan) Scheme	RV College of Engineering, Bangalore
24.06.2020 to	Online Refresher Course on Science	A.P.A.College of Arts & Culture
07.07.2020	Academics	
25-07-2020-31- 07 - 2020	One week Online Course on NONLINEAR DYNAMICS: INTRODUCTION by Dr. Lakshmanan	BECH- RUSA& School of physics, Bharathidasan University

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

Books Published

S.No	Title of the Paper	Year of publication	Authorshi p
1	English Communication practical manual for all branches	2010	Co – Author
2	Principles of physics	2011	Author
3	Materials science	2011	Author
4	Laser physics	2011	Author

16. Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Session Chaired
27-02-2018	Special lecture on "Nano Materials For Bio – Medical Applications"	Deliver an Invited talk in a National Conference Department of Physics, Bharathidasan University Constituent Model Arts and Science college for women, Vepur -17, Perambalur

17. Administrative Positions held in the College:

Nature of Position	Year
-	-
-	-

18. Details of Incharge / Participation in Extracurricular Activities :

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Placement In charge (Department)	2015-2016
Hale – Bopp Club In charge (Department)	2018-2019
Sports in charge (Department)	2019-2020
Member in Research Commitee	2019-2021

19. Details of Participation in Consultancy, Training, Development etc..:

Participation in training programme

1. Acted as a resource person at Govt Girls Hr Sec School Mannachanallur for the Govt. school teachers (Teaching physics subject in schools) sponsored by Tamilnadu

Government - Faculty development programme for Government school B.T Assistant teacher's.

- 2. Conducted remedial courses sponsored by Bharathidasan University
- 3. Being a resource person in Distance Education of Bharathidasan University.
 - (i) Atomic and molecular spectroscopy – II M.Sc (PHYSICS),
 - (ii)
- Nuclear & Particle physics

 I MS.c (PHYSICS)
 II MSc (PHYSICS) (PHYSICS)

Consultancy

Services: Academic

Consultancy

S. No	Nature of Position	Institution Name	Period
1	Advisor & Guest Lecturer	Sudharsana Polytechnic College, Kallipatti.	2006-2012
2	Personality Development Programmer.	Dhanalakshmi Srinivasan Polytechnic College, Perambalur.	2006-2012
3	Student Counselor	Dhanalakshmi Srinivasan Polytechnic College,Perambalur	2010-2012

Other Consultancy Services

S. No	Nature of Position	Institution Name	Topic / Competition / Function	Date
1	Chief Guest	Sudharsana Polytechnic College,Kallipatti.near ly 10 th ,12 th 1500 Students	Jaithukkaatuvome.	30.1.2009

2	Chief Guest	Padmapushan Sri Ramasamy Ayer Memorial Polytechnique College, Trichy.	Illaya Thalaimuraiku Ethirkaala Valzhimuraihal	16.3.2010
3	Chief Guest	Srinivasan Engineering College,Perambalur.	Vetri Vehu Thoorathil elai.	15.10.2010
4	Chief Guest	(10 th ,12 th Students) Government Hr.Sec.School,Peruvalap ur.	"Palliyea Valvin Payirchisalai"	25.2.2011
5	Resource Person	Govt Girls Hr Sec School Mannachanallur.	Faculty development programme for Government school teacher's.	09.2.2012
6	Chief Guest	Bharathidasan University Constituent College- Lalgudi,Nss- Champ.	Women involved in Sanitation & Hygiene	19.2.2013
7	Chief Guest Teachers Day Function	Sudharsana Polytechnic College Kallipatti.	Teachers Day Function.	05.09.2013
8	Judge	Dr.Selvaraj academy Primary School.	Science Exhibition.	17.10.2013
9	Resource Person	Cauvery College for Women.	Personality Development Programme	15.3.2013
10	Chief Guest	Dr.Selvaraj academy Primary School.	Annual day Function	14.03.2014
11	Chief Guest	NSS-Camp-Cauvery College for Women,Trichy, Nachamppatti,	NSS-Camp- Nachamppatti, Title-	07-2-19
			'Illaya Bharathame Ellunthu vaa''	

23. Details of Membership in Academic Bodies/ Board of Studies:

24. Details of Membership of Professional Bodies:

Membership in academic body

1. Life member in Indian society of systems for science & Engineering (ISSE) (LM04178).

25. Countries visited academically:

FOREIGN VISIT

S.No	Title of the Conference / Seminar / Workshop	LEVEL Internation al / National / Regional / State Level	Topi c	Organizatio n Name	Date
1	Nano smart- Nano Energy(2019)	International	Flowery Co2 O4 synthesized vi o hydrothermal method for super capacitor application	Universiti Tenaga National (The Energy University) Kula Lumpur, Malasiya	27 /07/19 to 29/07/2019

27. Any other information if any:

Any other Information:

- **1.** Being the Doctoral committee member for four Ph.D candidates of Bharathidasan University.
- 2. Being the member in panel of examiners in Autonomous colleges.
- 3. Being the question setter in physics in various Autonomous colleges.
- **4.** Acted as the Head of the department of physics
 - (i) 2005- 2009 General Engineering Department Lalgudi Co- operative polytechnic college, Lalgudi.
 - (ii) 2009 2013 Bharathidasan University Constituent College, Lalgudi.

Examiner ship & Question Paper Setter

External Examiner-	Question Paper Setter	
University / Autonomous Colleges	University / Autonomous Colleges	
1. Bharathidasan University	1. Seethalakshmi Ramasamy College, Trichy	
2.Srimati Indira Gandhi College	2. St.Joseph's College- Trichy	
2. National College	3.Gobi Arts and Science College-	
3. St.Joseph's College	Gobichettipalayam	
4. Nehru Memorial College, Puthanamppatti	4. Selvam Arts and Science College-	
5. Bishop Heber College, Trichy	Namakkal	
	5. Mahendra Arts and Science College,	
	Namakkal	
	6. Nehru Memorial College, Puthanamppatti,	
	7. PKR Arts College for Women,	
	Gobichettipalayam.	
	8. Vellasamy Nadar College, Madurai	

Ph.D Doctoral Committee Member

S.No	Name of The Instituition	Student Name and Research Guide	Subject	Year
1	St.Joseph's College	Ms.A.Mary Girija (Part- Time)	Physics	2015
2	St.Joseph's College)	Ms.F. Celin Hamalatha (Part-Time)	Physics	2016
3	St.Joseph's College	Ms.S.A.Thaneswari(Part- Time))	Physics	2016
4	St.Joseph's College	Ms.T.Vandhana(Full- Time)- Synapsis submitted	Physics	2017

Dr. KANNAGI.K