

CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
STAFF PROFILE

PERSONAL INFORMATION

1. Name : Dr.S.GOWRI
2. Date of Birth :26.01.1976
3. Address :

Residential	Office
1A, KESAVA RESIDENCY, AMK II STREET, ANANDHA AVENUE, EB ROAD, TRICHY-620002. Mobile: 9952645688	CAUVERY COLLEGE FOR WOMEN(Autonomous), ANNAMALAI NAGAR,TRICHY-18

ACADEMIC INFORMATION

**4. Designation & Department: ASSOCIATE PROFESSOR-
PG AND RESEARCH DEPARTMENT OF PHYSICS**

5. Educational Qualification:

Degree	Year	College/University
M.Sc.,	1998	BISHOP HEBER COLLEGE
B.Ed	1999	ANNAMALAI UNIVERSITY
M.Phil.,	2005	SEETHALAKSHMI RAMASWAMY COLLEGE
Ph.D	2014	St .JOSEPH'S COLLEGE(Autonomous)

6. Researcher ID :

Google scholar ID :

<https://scholar.google.co.in/citations?hl=en&authuser=1&user=hbCLmvgAAAAJ>

Scopus ID : 57196519379

Web of science researcher ID : Y-5613-2019

Orcid ID : <https://orcid.org/0000-0001-8556-3328>

Vidwan ID : _ 205864

Mendeley ID :

<https://www.mendeley.com/search/?page=1&query=Spectral%2C%20thermal%20and%20optical%20properties%20of%20L-tryptophanium%20picrate%3A%20A%20nonlinear%20optical%20single%20crystal&sortBy=relevancel.clarivate.com/home>

Publons ID

: <https://publons.com/researcher/3118869/s-gowri/>

7. Experience

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Date of Joining	Institution	Year of Experience
18.12.1999-31.10.2005	Shrimathi Indira Gandhi College	05Y-10 M- 14 days
10.07.2006-31.05.2007	Kurinji college of Arts & Science	00Y-10 M- 22 days
07.12.2005- 31.05.2006 & 25.06.2007 to till date	Cauvery college for women	00Y-05 M- 09 days & 14Y-09M- 28 days
TOTAL		22 Y- 0M -13days

8. Areas of Specialization : CRYSTAL GROWTH & NANO MATERIALS FOR ENERGY STORAGE APPLICATIONS

9. Languages known : English

10. Subjects Taught :

UG	PROPERTIES OF MATTER, COMMUNICATION PHYSICS, WAVE MECHANICS &NUCLEAR PHYSICS, MECHANICS & RELATIVITY, ELECTRICITY, MAGNETISM &ELECTROMAGNETISM, MATERIAL SCIENCE, ALLIED PHYSICS II, APPLIED PHYSICS III,ENVIRONMENTAL STUDIES, OFFICE MANAGEMENT TOOLS, PROFESSIONAL SKILLS
PG	CLASSICAL MECHANICS, CRYSTAL GROWTH &THIN FILM, STATISTICAL MECHANICS, SOLID STATE PHYSICS, NON LINEAR OPTICS, MICROPROCESSOR&COMMUNICATION ELECTRONICS, ADVANCED PHYSICS
M.Phil	--

11. Research Supervision:

	University from where guideship obtained	Thesis		
		Completed (in numbers)	Year of Completion	Pursuing (in numbers)
M.Phil (Ref.No.5832)	Bharathidasan(Distance Education)	03 & 01	2007& 2008	--
	Mother Teresa Women's University,Kodaikanal (Acted as an External guide)	05 &02	2017 & 2018	--
Ph.D (Ref.No.22539 -25.11.2016)	Bharathidasan	-	-	-

12. Details of Publications:

S.No.	Journal Name & Volume	Year of Publication	ISBN/ISSN Number	Name of the Paper	Impact Factor
1.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 81, Issue 1, Pages 257–260,	June 2011	1386-1425	Spectral, thermal and optical properties of L-tryptophanium picrate: A nonlinear optical single crystal	2.098
2.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 89, Pages 119–122	December 2011	-do-	Spectral, thermal and optical properties of adenosinium picrate: A nonlinear optical single crystal,	2.098
3.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Volume 95, Pages 73–79	April 2012	ISSN: 1386-1425	Synthesis, growth, spectral and thermal properties of a new organic crystal: 2-Carboxypyridin-1-ium trichloroacetate	1.917
4.	Optik - International Journal for Light and Electron Optics, Volume 124, Issue 16, Pages 2393–2396	December 2012	ISSN: 0030-4026	Synthesis, growth and characterization of 2-carboxypyridinium hydrogen (2R,3R)-tartrate monohydrate: A new organic nonlinear optical crystal	0.524
5.	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , Volume 110, Pages 28–35	March 2013		Crystal growth, spectral, optical and thermal properties of semiorganic nonlinear optical material: Picolinic acid hydrochloride	2.129
6.	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , vol, 15 May 2015, Pages 192-199.	March 2015	-do-	Growth, structure, spectral and optical properties of Semiorganic crystal: Pyridine-1-ium-2-carboxylate hydrogen bromide	2.653

7.	International journal of current research and review , vol 9, issue 10, may 2017. UGC Listed Journal: Jr. No. 62702	May 2017	ISSN: 0975-5241	Enhancement Of Pure And Dye Doped Glycine Related Single Crystal'	International Prognostic Index (IPI)
8.	International journal of current research and review , vol 9 , issue 11	May 2017.	-do-	Influence of Metal on Vibrational and Optical Properties of Mixed Tartrate Crystal in Silica Gel Medium	-do-
9.	Journal of Materials Science: Materials in Electronics , Volume 29, No. 23	December 2018	ISSN 0957-4522	Synthesis, crystal structure, optical and third order nonlinear optical properties of phosphoric acid pyridine-1-ium-2-carboxylate	2.195
10.	Journal of Molecular Structure , Vol. 1181, Page 660-667	December 2018	-do-	Novel metal -organic hybrid crystal with excellent transparency in the visible spectrum: growth, structure and properties of sodium tetraboro fumarate	2.011
11.	Mechanics and Mechanical Engineering , Vol. 22, issue- 4, pages- 1261-1271	Nov. 2018	ISSN: 1428-1511	Effect of Dicarboxylic Acid Dopant on Adp Crystal by Slow Evaporation Method	-
12.	Mechanics and Mechanical Engineering Vol. 23, issue 1, pp-23-27	july. 2019	ISSN: 1428-1511	Theoretical Investigation on Growth Kinetics and Thermodynamic Properties of Pyridine-2-Carboxylic Acid Crystals	Sciendo is a De Gruyter company
13.	International Journal of Scientific Research in Physics and Applied Sciences Vol. 7, Issue. 3, pp. 156-166	June 2019	E-ISSN: 2348-3423	Growth and Characterization Studies on Nicotinic Acid Doped Kdp Crystals	ISROSET, Indore, India

14.	Physical Chemistry Chemical Physics 21, 11829--11838	May 2019		Electrochemical performance of L- tryptophanium picrate as an efficient electrode material for supercapacitor application	Royal Society of Chemistry 3.906
15.	Optics and Laser Technology, 119 (2019) 105664	June 2019		Growth, structural, third order nonlinear optical properties, dielectric properties, conductivity mechanisms and spectroscopic characterization of a luminescent materialtrans-diaqua-bis(pyridine-2-carboxylato)-cobalt(ii) dihydrate for optoelectronic applications.	Elsevier 3.319
16.	Bull. Mater. Sci. (2020) 43:17 doi.org/10.1007/s1 2034-019-1980-4	July 2019	0250-4707	A remarkable enhancement between optical transparency andSHG efficiency on doped-KHP single crystals	1.264 (springer)
17.	Results in Materials	Jan.,2020	2590-048X	Growth, spectral, dielectric, magnetic andantimicrobial studies on dye doped rochelle salt crystal	Elsevier
18.	Journal of MolecularStructure	May 2020	Volume 1218, 15 May 2020, 128460	Growth, structural, hirshfeld surface analysis, DFT and Z-scan techniqueof hybrid single crystal of piperazinium perchlorate	Elsevier2.011
19.	Bull. Mater. Sci. (2020)	June 23,2020		Spectroscopic and Third order Nonlinear optical properties of organic crystal	1.264 (springer)
20	Computational & theoretical chemistry	August 08,2021	Vol.120 2- pages11 3345	Computational molecular structure analysis,Hirshfield surface analysis and third order nonlinear optical profiling of ninhydrin derivative wirh Z-scan studies	1.403 Elsevier

21.	Optik	August 16,2021	Vol.24 6,Pages - 167836	Promising computational,structural, vibrational and optical properties of piperazinium bis(2 carboxypyridine)monoh ydrate crystal for NLO device applications	2.187 Elsevier
22	New journal of chemistry	8/10/2021	Vol.45(44) 20612- 20623	NiWo4/PANI composites as potent electrodes material for high performance energy storage devices.	3.591 Royal Society of Chemistry
23.	Ionics	31/10/202 1	28 , 859–869 (2022)	Investigation on Electrochemical behavior of Aminophenol-doped ZnO as electrode material for High Performance Supercapacitors	2.817 Springer
24	Physica B: Condensed Matter	1/1/2022	Vol.624413 397	Nucleation kinetics, Williamson-Hall analysis, hardness and dielectric properties of pyridine-2- carboxylictrichloroacetat e single crystals	2.436 Elsevier
25.	Journal of Indian Chemical Society	23/2/2022	Vol.99,1003 97	Crystal,Growth,spectral, opticalDFT analysis and Z- scan analysis of Pyridine-1- ium-2-carboxylate hydrogen bromide for NLO applications	0.284 Elsevier

13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
1.2.08& 2.2.2008	ISPA	National Conference On Recent Advances In Physics	Undopped Cus Prepared By Chemical Method
25.06.08& 26.9.2008	NATIONAL College	Laser & Non-Linear Optical Materials	Growth & characterization of single crystal
27- 29.01.2009	SSN Engineering College	National Seminar On Crystal Growth Crystal Growth	Synthesis & Characterisation Of BGOX
7.08.2012- 9.08.2012	Bishop Moore college	International conference of Advanced Materials	Spectral, thermal and optical properties of AP Crystal
6.08.13& 7.08.2013	Govt. Arts college for women	Perspectives in Material Science	Crystal Growth & Characterisation of PTA
15.02.2013	Dr. MGR University	Perspectives in laser & spectroscopy	Growth, Spectral, Optical Characterisation of NLO crystal
18.12.2014& 19.12.2014	Hindustan University	Advances in applied physics & Material Science	Influence of picric acid on organometallic bisthiourea chloride crystal
15.02.2017	Jammal Mohamed College	Recent Advancement in materials	Structural & optical characterization of dye doped crystal
29.01.2016& 30.01.2016	BARD	29 th Annual general meeting of MRSI	Growth, vibrational, Mechanical & Dielectric studies of EDTA doped CU-Zinc chloride crystals
02-03.02.17	SCSVMV university	ICFM-2017 on Functional materials	Influence of Metal on Structure & optical properties of Tartrate crystals
22.08.17- 28.08.17.	Hitech City, Madhapur	24 th congress and general assembly of the international union of crystallography	Presented with Bursary support, Growth and characterization of semi organic NLO crystal.
6&7/7/2020	Muthurangam Govt. Arts college, Vellore	National Web conference on Novel materials	Synthesis, Growth and Characterization of a nonlinear optically active crystal by SEST technique

14. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
03.03.2004	Thanthai Hans Rover College,Perambalur	Seminar On Microprocessor& Microcontroller	State	Microcontroller
1.2.08& 2.2.2008	ISPA&Spectrophysics Labarartory,Pachayappa college,chennai	Recent Advances In Physics	National	CuO nao particles
15.02.2008& 16.02.2008	Cauvery college,Trichy	Recent Advances in Materials Science	National	NLO materials
25.06.08& 26.9.2008	National College,Trichy	UGC Sponsored Crystal Growth &Non-Linear Optical Materials	National	Optical materials
15.03.2008	TEQIP-Metallurgical Engineering ,NIT,Trichy	Workshop on Advances in Bio Materials	National	-

27-29.01.2009	SSN College Of Engineering,chennai	UGC sponsored workshop on Recent Trends in Crystal Growth	National	Organic NLO crystals
28.10.2009-30,10,2009	ICTP&Crystal Growth Centre,Anna university,chennai	Workshop on Advances in Nano Science &Technology	International	Nano materials
30.03.2010	Crystal Growth Centre,Anna University,chennai	UGC sponsored Workshop on Recent trends in crystal growth	National	-
18.01.2011	Research Advisory Committee, St.Joseph's college	Orientation programme for Research & Development	State level	participated
28.02.2011	Dept.of Physics, NIT -Trichy	NSDS'11	National	---
15.03.2012-17.03.2012	Indian Association For Crystal Growth, SSN college,chennai	UGC sponsored on Crystal Growth and Nano Materials	National	LTP crystals

7.08.2012- 9.08.2012	Bishop Moore college,Kerala	Molecular spectroscopy of Advanced Materials and Biomolecules	International	Growth & characterization of AP crystals
23.01.2013& 24.01.2013	Cauvery college,Trichy	TNSCST sponsored on Current Trends in Material Science& Nanostructured Materials	National	Participated
6.08.13& 7.08.2013	Govt.Arts college for women,Pudukkottai	UGC&SERB sponsored on Perspectives in Material Science	National	Acid doped organic materials
15.02.2013	Faculty of Humanity&Science,MGR iniversity,chennai	Perspectives in Laser and Spectroscopy	National	Organic crystals in Laser applications
18.12.2014& 19.12.2014	Dept.of Physics, Hindustan University,chennai	Frontier Area ofPhysics	International	participated
19.02.15& 20.02.15	ISPA Association	UGC sponsored on Emerging Trends in Applied Physics	National	Characterizatio nof NLO crystals
29.01.2016& 30.01.2016	Material Research Society&IEEE Nano Technology Council,BARD	Advances in applied physics& Material Science	National	
4.10.2016- 10.10.2016	Satish Dhawan space centre,ISRO	World Space Week celebrations	National	participated
24.10.2016	SPIE.Student chapter,Gandhigram university, dindugal	Workshop on Optical Characterization of Materials	National	participated
06&07.02.17	INDIAN SCIENCE ACADEMIES,EVR college	Science Academie's Lecture workshop	National	Advances in Particle physics
15.02.2017	Jammal Mohamed college,NLS-RAM:17	Recent Advancement in materials	National	Metal organic Materials
21.08.2017	Urumu Dhanalakshmi college,Trichy	Recent trends in material science &its applications ICRM-17	International	Spectral & Mechanical behaviour of KHP crystals

02-03.02.17	ICFM-2017 on Functional materials, SCSVMV university, Kancheepuram	ICFM-2017 on Functional materials	International	Mixed Tartrate crystals
22.08.17-28.08.17.	international union of crystallography (IUCR)	24 th congress and general assembly of the international union of crystallography	International	Semiorganic NLO crystals
23.11.2017	Mahendra Engineering college	Advanced materials for Photovoltaic & supercapacitors	National	Photovoltaic & supercapacitors materials
27.11.2017-9.12.2017	Science Academies – Refresher course	Science Academies – Refresher course	National conference	Quantum Mechanics
23-24.03.2018	Concept on Newer Engineering and Technology- ICONNECT-2K18	Concept on Newer Engineering and Technology-2K18	International	Characterization of ADP crystal
14-16.02.18	29 th Annual general meeting of MRSI on Functional and Exotic Materials	29 th Annual general meeting of MRSI on Functional and Exotic Materials	National Symposium	Advances in Exotic materials-EDTA doped Cu-Zn crystal
20-21.04.18	LAMSYS'18	LAMSYS'18	National conference	Acqua SAT
6-10.08.18	GIAN course for Academic Networks on crystal growth on Functional materials	GIAN course for Academic Networks on crystal growth on Functional materials	National	CRYSTAL GROWTH OF FUNCTIONAL & EXOTIC MATERIALS
11.8.18-12.8.18	Workshop on Computer aided Drug discovery	Workshop on Computer aided Drug discovery	National	Aided Drug discovery
29.10.18-2.11.18	e-Content Development	e-Content Development	State level Workshop	e-Module on Halleffect
04.02.2019-06.02.2019	Sponsored by DST-SERB, BRNS, TNSCST & TANSCH	ICRAMS-2019	International	Advances in material science
14-15.03.2019	Ramakrishnan college of Technology supported by ELSEVIER	ICONEEEA-2K19	International	Characterization of Nano particles
May 21-22, 2020	Department of Chemistry, Gandhigram Rural Institute, Dindigul	FDP	International	International Webinar on Materials for Energy,

				Environment and Health care Applications
May 1-3,2020	Dr.Vivek Polshettiwar&Dr.Sayan bhattachariya TIFR Mumbai &IISER Kolkatta	FDP	National	Virtual Conference on “Materials for Energy Harvesting and Catalysis
May5-8	Jointly organized by Department of Physics, RK university and Department of	Webinar Series on Conceptual and Applied Physics	National	Prof.Hari Om Vats Director, Space
May 11-2020	Five days FDP R training Program	Spoken tutorial ,IIT Bombay funded by the National Mission on Education through ICT, MHRD, Govt. of India,	. Five days FDP R training Program	Sri Ramakrishna College of Arts and Science (Autonomous), Coimbatore with course material
May 15,2020	Functional Novel Materials for Electrochemical Sensors and Energy Storage Devices	Dr.chella durai, Dr.chun chen yang MING CHI University,Taiwan	International	Thiyagaraja college,Madurai &MING CHI University, Taiwan
July 05, 2021	Modeling of crystal growth processes and devices(online)	SSN research centre	International	SSN institution
April 24,2021	Design of nanoelectronics and nanophotonics using Advanced soft tool	Faculty development program(online)	National	GITA - Bhuvaneswar
December 2021 (6-10)	EDP on fostering Start-up, Innovation and Entrepreneurship/Intra preneurship	Faculty development program(online)	National	ALL INDIA COUNCIL FOR TECHNICAL EDUCATION & Andhra University

15. Details of Seminars / Conferences / Workshops Organized:

Year	Date	Title	National / International	Topic	Resource Person
04.10.2016-06.10.2016	WORKSHOP (act as Co-ordinator)	WORLD SPACE WEEK	National	-	-

16. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
27.11.2017-9.12.2017	Science Academies –Refresher course	Indian Academy of Sciences
6.10.2018-10.08.2018	GIAN course for Academic Networks on crystal growth on Functional materials	Centre for High Pressure Research,Dept.of Physics,BARD&supportedby Ministry of Human Resource & Development

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

S.No.	Journal Name /Book & Volume	Year of Publication	ISBN/ISSN Number	Name of the Paper
1.	“Cauvery Research Journal, Trichy, Vol2, Issue 1. Chapter-7	July 2008	ISSN No.: 0975-1300	Mass Media in Higher Education ”:
2.	Growth and characterization of metal cation on Pottasium hydrogen Pthalate single crystals	Book of Recent Researches in crystal growth and characterization-	Asian press	
3.	Novel Materials for Emerging Applications	October 2021	ISBN:978-93-91373-10-8	Shanlax Publications

18. Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Session Chaired
28.02.2015	Science day celebrations	St.Joseph’s college,Trichy
15.08.2017	Guest Lecture Program (Growth of NLO single crystals for practical device applications)	As a Resource person in Vivekananda college of Arts andScience For Women, Thiruchengode.
27.02.2020	As a Chair person for Posterpresentation	NCAMA-2020 by UDC ,trichy19
10.07.2020	As a resource person for Scientific Profile Database Tools	FDP on Scientific Profile Database Tools in CCW
2021-2022	Inter amritha seminar competition As a resource person for Design Thinking	Amritha School,Trichy Jammal mohammed college

19. Administration Positions held in the College:

20. Details of In-Charge / Membership in Committees for Autonomous:

Nature of Position	Year
Research Committee member & Dept. Research Coordinator IIC Coordinator	2017-2018 to 2019-2022 ,2021-2022
Criterion VI -incharge	2018-19 to 2019-2022

21. Details of In-Charge / Participation in Extracurricular Activities :

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

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

Nature of recharging strategy(research training)	Duration
1.Research Training Program – SSN	16-11-2016 &
Research Centre, Chennai 2.Short	18-11.2016
term training Program --Department	14-11-2017 &
of Physics,	15-11-2017
Bishop Moore College, Mavelikara.	

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

Editorial Board Member-JOAASR

24. Details of Membership of Professional Bodies:

Act as Life member of ISSE, Trichy chapter, SDSC-SHAR Centre,Sriharikota. Act as Life Member of Indian Association for Crystal Growth (Ref.No.2016-02) Act as TERA (Teaching and Education Research Association) life time member(TERA-M192050)

25. Country visited:

26. Any other information if any:

Act as Examiner & Question paper setter in other university affiliated colleges

Act as **DC Member** –(Ref.No:8197-17.05.16)

Awarded a BURSARY SUPPORT of Rs.15, 000/- from DST funds to attend the 24th IUCR congress and General Assembly on 21-28 August 2017 at Hyderabad.

Editorial Member in JOAASR in the year 2016-17.

Reviewer in Journal of Physical Science & Material Research Innovation ,and IONICS ,Rasayan Journal in the year (2016-17&17-18,18-19,19-20)

Act as a Technical Committee in NCETAP-2015, Lekshmipuram College,

Act as a resource person for Poster presentation in NCAMA -2020, UDC college,Trichy

Act as a Committee member in NSMAS-2020,Meenakshi Chandrasekaran college, Pattukkottai

As a NPTEL mentor for the course “A brief course on superconductivity” from Jan-Dec 2020

Has undergone **Innovation Ambassador** training (foundation level) conducted by

Ministry of Innovation cell during 30th June-30th July 2021 in online mode.

Undergone skill development Training program on January(25-29) 2021 on virtual mode
by CSIR-CECRI ,Karaikudi

