

**CAUVERY COLLEGE FOR WOMEN**  
**(AUTONOMOUS)**  
**STAFF PROFILE**

**PERSONAL INFORMATION**

- 1. Name** : Dr. B. ANITHA  
**2. Date of Birth** : 18/04/1988  
**3. Address** :

<b>Residential</b>	<b>Office</b>
19 A Jambu Nagar Mannachanallur Trichy – 621 005	Cauvery College for Women (Autonomous), Annamalai Nagar Trichy – 620 018

**ACADEMIC INFORMATION**

**4. Designation & Department** : Assistant Professor & Physics

**5. Educational Qualification** :

<b>Degree</b>	<b>Year</b>	<b>College/University</b>
Ph.D	2013-2018	Bishop Heber College/Bharathidasan University
M.Phil	2011-2012	Bishop Heber College/Bharathidasan University
M.Sc	2009-2011	Bishop Heber College/Bharathidasan University
B.Ed	2008-2009	Imayam College of Education/Tamilnadu Teachers Education University
B.Sc	2005-2008	Chidambaram pillai College for Women/Bharathidasan University

**6. Researcher ID** :

**Google scholar ID** :

<https://scholar.google.com/citations?user=8yIJ5lgAAAAJ&hl=en&authuser=1>

**Scopus ID :**

[https://id.elsevier.com/settings/redirect?code=rKiZzOmnzF8aZ28qPZMQG16lax\\_1Zjp7UWZMjc3u](https://id.elsevier.com/settings/redirect?code=rKiZzOmnzF8aZ28qPZMQG16lax_1Zjp7UWZMjc3u)

**Web of science researcher ID:**

AAD-4522-2020

**Orcid ID:**

<https://orcid.org/0000-0001-8649-8169>

**Vidwan ID:**

<https://vidwan.inflibnet.ac.in/profile/174621>

**Mendeley**

<https://www.mendeley.com/search/?page=1&query=B.%20Anitha&sortBy=relevance>

**Publons:**

<https://publons.com/researcher/3371740/anitha-b/>

**7. Experience :**

Date of Joining	Institution	Year of Experience
01/12/2017	Cauvery College For Women Trichy-18	4 years

**8. Areas of Specialization : Material Science**

Thin film physics

Nanomaterials

**9. Languages known : English, Tamil****10. Subjects Taught :**

<b>UG</b>	Properties of Matter Thermal Physics and Statistical Mechanics Mechanics & Relativity Optics Nuclear Physics Office Management tools Theoretical Physics Communication Physics Electricity, Magnetism and Electromagnetism Electrical Wiring Applied Physics – II Environmental Studies
<b>PG</b>	Statistical Mechanics

	Electromagnetic Theory Solid State Physics Nano Physics Physics for Competitive Exam
<b>M.Phil</b>	–

### 11. Research Supervision: Nil

	Thesis Completed	Pursuing
<b>M.Phil</b>		
<b>Ph.D</b>		

### 12. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
Journal of Materials Science: Materials in Electronics	2015	0957-4522	Effect of nitrogen doped titanium dioxide (N-TiO <sub>2</sub> ) thin films by jet nebulizer spray technique suitable for photoconductive study	2.324
Journal of Materials Science: Materials in Electronics	2016	0957-4522	Tunable morphology with selective faceted growth of visible light active TiO <sub>2</sub> thin films by facile hydrothermal method: Structural, optical and photocatalytic properties	2.324

Physica E: Low-dimensional Systems and Nanostructures	2017	1386-9477	Self assembled sulfur induced interconnected nanostructure TiO <sub>2</sub> electrode for visible light photoresponse and photocatalytic application	2.399
Journal of luminescence	2018	0022-2313	Role of fluorine doping on luminescence centers and enhanced photocatalytic performance of nebulizer sprayed TiO <sub>2</sub> films under visible light	2.732

### 13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
14 <sup>th</sup> Feb 2011	PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli	National Conference in Perspective in Laser, Optics, Spectroscopy and Nano Science	Dielectric Study of Polymer
21 <sup>st</sup> to 25 <sup>th</sup> Nov 2012	Centre of Nano Science and Technology, K.S. Rangasamy College of Technology, Tiruchengode, Namakkal	International symposium on Macro-and Supramolecular Architectures and Materials: Nano Systems and Applications	Tin Oxide Doped Indium Oxide (SnO <sub>2</sub> :In <sub>2</sub> O <sub>3</sub> ) Thin Films Prepared by Electron Beam Evaporation for Ethanol Sensing Application

23 <sup>rd</sup> and 24 <sup>th</sup> Jan 2013	Department of Physics and Chemistry, Cauvery College for Women, Tiruchirappalli	National Conference in Current Trends in Material science and Nanostructured Materials (CTMN -2013)	Synthesis, Preparation and Characterization of TiO <sub>2</sub> Nanopowder and Thin Films with Special Optical Properties
11 <sup>th</sup> Mar 2013	PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli	National Conference on Frontier Topics in Advanced Materials (NCFTAM – 2013)	Preparation and Structural Characteristics of Tin Oxide Doped Indium Oxide (SnO <sub>2</sub> :In <sub>2</sub> O <sub>3</sub> ) Thin Films by Electron Beam Evaporation for Ethanol Sensing Application
16 <sup>th</sup> Sep 2013	Department of Physics, Ananda College, Devakottai	One day State Level Inter Collegiate Seminar on Applications of Nano materials	Structural, Electrical & Sensing Properties of ITO Thin Films Prepared by Electron Beam Evaporation
6 <sup>th</sup> and 7 <sup>th</sup> Mar 2014	Department of Bioelectronics & Biosensors, Alagappa University, Karaikudi	National Conference on Recent Advances in Nanomaterials for Sensor Application (NANOSE - 2014)	Indium Tin Oxide Thin Films Prepared by Electron Beam Evaporation for Ethanol Sensing Application
7 <sup>th</sup> to 9 <sup>th</sup> Aug 2014	PG and Research Department of Physics, National College, Tiruchirappalli	National Seminar on Recent Trends in Crystal Growth and Nano Materials (NSCGNM - 2014)	Influence of Reaction Temperatures on Photoluminescence Property of Rutile TiO <sub>2</sub> Nanostructured Thin Films by Hydrothermal

			Process
23 <sup>rd</sup> and 24 <sup>th</sup> Jan 2015	Department of Chemistry, Annamalai University, Chidambaram	National Seminar on Recent Advances on Luminescent Materials (RALM – 2015)	Impact of Nitrogen Modified Titanium Dioxide (N-TiO <sub>2</sub> ) Thin Films by Jet Nebulizer Spray Method
12 <sup>th</sup> Feb 2016	Department of Physics, M.V. Muthiah Government Arts college for women, Dindigul	National Conference on Advances in Material Science (NCAMS - 2016)	Tunable morphology with selective faceted growth of visible light active TiO <sub>2</sub> thin films by facile hydrothermal method: Structural, optical and photocatalytic properties
18 <sup>th</sup> and 19 <sup>th</sup> Mar 2016	School of Physics, Bharathidasan University, Tiruchirappalli	2 <sup>nd</sup> National Conference on Nanophotonics (NCNP -2016)	Effect of Sulfur doped Titanium Dioxide (S-TiO <sub>2</sub> ) Thin Films by Jet Nebulizer Spray Method
15 <sup>th</sup> Oct 2016	PG Department of Physics, Jairams Arts and Science College, Karur	National level Seminar on Advances in Material science (NLSAMS-2016)	Enhanced visible light active photocatalytic performance of Sulfur doped Titanium dioxide thin films by nebulizer spray technique
4 <sup>th</sup> and 5 <sup>th</sup> Mar 2017	PG and Research Department of Physics, A.V.V.M Sri Pushpam College, Poondi, Thanjavur	Second National Conference on Recent Developments in Nano Materials and Thin films Research (RDNMTR-	Photocatalytic performance of Fluorine doped TiO <sub>2</sub> thin films under visible light

		2017)	
6 <sup>th</sup> to 8 <sup>th</sup> Mar 2017	PG and Research Department of Physics National College, Tiruchirappalli	21 <sup>st</sup> National Seminar on Crystal Growth and Applications (NSCGA- 2017)	Photoconductive study of sulfur doped titanium dioxide (S-TiO <sub>2</sub> ) thin films by nebulizer spray technique
29 <sup>th</sup> Jan 2018	PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli	International Conference on Material Physics (ICOMP -2018)	Sulfur doped titanium dioxide thin films by nebulizer spray technique for Photoconductive Applications
9 <sup>th</sup> and 11 <sup>th</sup> Feb 2018	PG and Research Department of Physics, A.V.V.M Sri Pushpam College, Poondi, Thanjavur	3 <sup>rd</sup> National Conference on Recent Developments in Nano Materials and Thin films Research (RDNMTR-2017)	A comparative study on TiO <sub>2</sub> and non- metal doped TiO <sub>2</sub> thin films for photocatalytic application
19 <sup>th</sup> -21 <sup>st</sup> Nov 2019	Bishop Heber College, Trichy	International conference on Application of Basic Sciences ICABS-2019	Nebulizer Spray deposited TiO <sub>2</sub> and Non-metal doped TiO <sub>2</sub> thin films for photo catalytic application.

#### 14. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
11 <sup>th</sup> Jan 2010	Environmental Science Department, Bishop Heber College, Tiruchirappalli	Seminar	National	Global Energy Crisis-Hazards and Solutions

7 <sup>th</sup> Sep 2010	PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli	Seminar	National	Recent Advances in Spectroscopic Techniques
9 <sup>th</sup> and 10 <sup>th</sup> Feb 2012	School of Physics, Alagappa University, Karaikudi	Workshop	International	International workshop on Advanced Energy Materials (IWAEM – 2012)
20 <sup>th</sup> Feb 2013	School of Physics, Bharathidasan University, Tiruchirappalli	Seminar	National	Special Seminar on Recent trends in Novel Materials
25 <sup>th</sup> and 26 <sup>th</sup> Feb 2013	Department of Nanoscience and Technology, Bharathiar University, Coimbatore	Conference	National	Third National Conference on Multifunctional Nanomaterials and Nanocomposites (NCMNN- 2013)
28 <sup>th</sup> Feb and 1 <sup>st</sup> Mar 2013	Department of Material Science and Engineering, CARE school of Engineering, Tiruchirappalli	Workshop	National	Workshop on Scanning Electron Microscopy & X-Ray Diffraction
21 <sup>st</sup> to 23 <sup>rd</sup> Mar 2013	School of Physics, Alagappa University, Karaikudi	Workshop	National	2 <sup>nd</sup> National Seminar on Characterization Techniques (NWCT -2)

16 <sup>th</sup> and 17 <sup>th</sup> Aug 2013	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli	Workshop	National	Workshop on R&D Proposals to National and International Funding for Researchers – Approach & Preparation
11 <sup>th</sup> to 13 <sup>th</sup> Sep 2013	School of Electrical & Electronics Engineering, SASTRA University, Thanjavur	Conference	International	International Conference on Thin Films & Applications (ICTFA-2013)
20 <sup>th</sup> Dec 2013	PG & Research Department of Physics, Srimad Andavan Arts and Science College, Tiruchirappalli	Seminar	National	National Seminar on Recent Trends in Materials and its Impact (NSRANI - 2013)
21 <sup>st</sup> to 31 <sup>st</sup> May 2014	PG & Research Department of Physics, Bishop Heber College, Tiruchirappalli	Workshop	National	Summer Research Training Programme Physics (SRTP - 2014)
7 <sup>th</sup> and 8 <sup>th</sup> Nov 2014	Department of Physics, National Institute of Technology, Tiruchirappalli	Workshop	National	Short Term Programme on Nano structured Materials: Processing and Characterization
4 <sup>th</sup> Sep 2015	PG & Research Department of Physics, National	Workshop	National	National Workshop on Crystal Growth,

	College (Autonomous), Tiruchirappalli			Thin Films and Solar Cells (WCTS- 2015)
19 <sup>th</sup> to 27 <sup>th</sup> Nov 2015	Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore	Workshop	National	15 <sup>th</sup> Hands on Training on Photovoltaics and Micro and Nano Characterization Techniques
11 <sup>th</sup> and 12 <sup>th</sup> Nov 2016	Centre for Nanoscience and Technology, Anna University, Chennai	Workshop	National	National Workshop and Hands on Training Program on “Thin Films Solar Cells
25 <sup>th</sup> to 27 <sup>th</sup> May 2017	Research and Development Cell and Department of Physics, Alagappa Chettiar College of Engineering and Technology	Workshop	National	Theory and Practice of X- RAY diffraction techniques
23 <sup>rd</sup> and 24 <sup>th</sup> Feb 2018	PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli	Workshop	National	National Workshop on Powder X-ray Diffraction and Data Analysis
4 <sup>th</sup> May 2020	Department of Chemistry, Cauvery college for women (autonomous), Trichy-18	Webinar	National	Chemistry Behind MRI Contrast Agents
5-8 May 2020	Jointly organized	Webinar	National	Webinar Series

	by Department of Physics, RK university and Department of Nanoscience and Advanced Materials, Saurashtra University, Rajkot			on Conceptual and Applied Physics
23 <sup>rd</sup> and 24 <sup>th</sup> July 2021	PG & Research Department of Physics, Bishop Heber College, Trichy	Faculty Development Programme	National	Faculty Development Programme on Problem Solving in Quantum Physics
15 <sup>th</sup> to 17 <sup>th</sup> March 2022	PG & Research Department of Physics, Bishop Heber College, Trichy	Workshop	National	Material Characterization Data Analysis using Rietveld Refinement , XPS and DFT.

**15. Details of Seminars / Conferences / Workshops Organized: Nil**

Year	Date	Title	National / International	Topic	Resource Person

**16. Details of Orientation / Refresher Course Attended:**

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

**18. Details of Chairing as Resource Person:**

Date	Title of the Seminar/Conference	Session Chaired
28 <sup>th</sup> May - 1 <sup>st</sup> June 2019 - Bishop Heber College, Trichy	Summer Training Programme on Material science STMS-2019	Invited Talk

**19. Administration Positions held in the College: Nil**

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

**21. Details of In-Charge / Participation in Extracurricular Activities : Nil  
(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):**

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

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

**24. Details of Membership of Professional Bodies:**

Life time member in Indian Association for Crystal Growth

**25. Country visited:**

**26. Any other information if any:**

- Acted as Coordinator in the workshop on “Photovoltaic System Designing and Installation” held on March 16 – 17, 2015 at PG & Resarch Department of Physics, Bishop Heber College, Trichy – 17.
- Served as a Member, Organizing Committee of “Summer Research Training Programme (SRTP- 2015) held on May 11 – 18, 2015 at PG & Research Department of Physics, Bishop Heber College, Trichy – 17.