

CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
STAFF PROFILE

PERSONAL INFORMATION

1. Name : Dr. S. Devi
2. Date of Birth : 20.07.1988
3. Address :

Residential	Office
A-206, Trichy Tower, Salai Road, Trichy-18.	Cauvery College For Women Annamalai Nagar Trichy-18.

ACADEMIC INFORMATION

4. Designation & Department: Assistant Professor and Chemistry

5. Educational Qualification:

Degree	Year	College/University
B.Sc.	2008	Seethalakshmi Ramaswami College, Bharathidasan University
M.Sc.	2010	Seethalakshmi Ramaswami College, Bharathidasan University
M.Phil.	2011	Madurai Kamaraj University
Ph.D.	2017	University of Madras

6. Researcher ID :

Google Scholar: <https://scholar.google.co.in/citations?user=Fe11iqcAAAAJ&hl=en>.

ORCID ID: <https://orcid.org/0000-0001-8811-5870>.

7. Experience :

Date of Joining	Institution	Year of Experience
15/07/2021	Cauvery College for Women	Till date

8. Areas of Specialization : Electrochemistry, Nanomaterials, Fluorescence Sensor.

9. Languages known : Tamil and English

10. Subjects Taught :

UG	Allied Chemistry I & II
PG	Inorganic Chemistry, Organic Chemistry – I, Industrial Chemistry, Instrumentation Techniques, Physical Methods in Chemistry – I & Forensic Chemistry

11. Research Supervision: -Nil-

	Thesis Completed	Pursuing
M.Phil		
P.hD		

12. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
Int. J. Electrochem. Sci, 7	2012	1452-3981	Electrocatalytic oxidation of hydrazine based on NiHCF@TiO ₂ core-shell nanoparticles modified GCE.	1.8
Nano Biomedicine and Engineering, 4	2012	2150-5578	Biogenic synthesis of silver nanoparticles using fruit extract of ficus carica and study its antimicrobial activity.	-
ISRN Analytical Chemistry, 2012	2012	2090-732X	Cobalt hexacyanoferrate-decorated titania nanotube: CoHCF@TNT modified GCE as an electron transfer mediator for the determination of hydrazine in water samples.	-
Analyst, 137	2012	1364-5528	An intramolecular charge transfer (ICT) based chemo sensor for silver ion using 4-methoxy-N-(thiophen-2-yl)methyl)benzenamine.	4.6
Asian J. Chem, 25	2013	0975-427X	Amperometric detection of nitrite using chitosan protected nickel hexacyanoferrate nanoparticles modified glassy carbon electrode.	0.31
Int. J. Electrochem. Sci., 9	2014	1452-3981	Dithiocarbamate post functionalized polypyrrole modified carbon sphere for the selective and sensitive detection of mercury by voltammetry method.	1.8
Mater. Sci. Eng.: C, 69	2016	0928-4931	Sunlight assisted synthesis of silver nanoparticles in zeolite matrix and study of its application on electrochemical detection of dopamine and uric acid in urine samples.	7.3
Ionics, 25	2019	0947-7047	Aniline-mediated synthesis of carboxymethyl cellulose protected silver nanoparticles modified electrode for the differential pulse anodic stripping voltammetry detection of mercury at trace level.	2.8

13. Details of Papers Presented:

Date & Venue	Name of the Seminar	Paper Name
5 th -7 th December 2013,	International Conference on	Synthesis of chitosan protected nickel

B. S. Abdur Rahman University	Nanomaterials: Science, Technology and Applications	hexacyanoferrate modified titanium oxide nanotube and study its application on simultaneous electrochemical detection of paracetamol and caffeine.
21 st and 22 nd July 2013, Presidency College.	National Conference on Energy and Environment	Preparation of silver nanoparticles decorated poly (m-phenylenediamine) and their application in electrochemical detection of hydrazine.

14. Details of Seminars / Conferences / Workshops Attended:

Date & Venue	Title	National / International	Topic
21 st -23 rd May 2014, IISC, Bangalore	INUP familiarization workshop	National	Nanolithography

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

Year	Date	Title	National / International	Topic	Resource Person

16. Details of Orientation / Refresher Course Attended: -Nil-

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

- 1) S. Devi and V. Tharmaraj*, Nanomaterials for advanced analytical applications in chemo- and biosensors. In: M. Naushad, et.al., (eds) Advanced nanostructured materials for environmental remediation. Environmental chemistry for a sustainable world, (2019) vol 25, pp 91-110. Springer, Cham. doi.org/10.1007/978-3-030-04477-0_4; ISBN 978-3-030-04477-0. ISSN 2213-7122.
- 2) S. Devi and V. Tharmaraj*, Quantum dots in green photocatalytic applications for degradation of environmental pollutants and hydrogen evolution. In: Rajendran et.al., (eds) Green photocatalysts for energy and environmental process. Environmental chemistry for a sustainable world, (2020) vol 36, pp 87-108. Springer, Cham. doi.org/10.1007/978-3-030-17638-9_4; ISBN978-3-030-17638-9.
- 3) S. Devi and V. Tharmaraj*, *Photoelectrochemical process for hydrogen production*. In: Mu. Naushad, et.al., (eds) New technologies for electrochemical applications, (2020) Boca Raton: CRC Press, doi.org/10.1201/9780429200205; ISBN-9780429200205.
- 4) S. Devi and V. Tharmaraj*, *Biosensor devices based on metal oxide materials*. In: Rajendran S., et.al., (eds) Metal, metal oxides and metal sulphides for batteries, fuel cell, solar cells, photocatalysis and health sensors. (2021) vol 62, pp 311-333. Springer, Cham. doi.org/10.1007/978-3-030-63791-0.10. ; ISBN-978-3-030-63791-0.
- 5) S. Devi and V. Tharmaraj*, *Biomediated synthesis of quantum dots for fluorescent biosensing and bioimaging applications* In: A. Pandikumar., et.al., (eds) Bio-inspired nanomaterials:

Synthesis and emerging applications. (2021) vol 111, pp 185-223. *Materials research foundations*, doi.org/10.21741/9781644901571-7;

18. Details of Chairing as Resource Person: -Nil-

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: -Nil-

25. Country visited academically: -Nil-

26. Any other information if any:

- Awarded as Project Fellow by university grants commission from September 2011 to January 2014.
- Secured Second Rank in M.Sc., at Seethalakshmi Ramaswami College, Trichy.
- Attend 4 FDP during lockdown period.