

# CAUVERY COLLEGE FOR WOMEN

(AUTONOMOUS)

## STAFF PROFILE



### PERSONAL INFORMATION

1. Name : Dr. K. Shenbagam  
2. Date of Birth : 13.08.1979  
3. Address :

Residential	Office
30, Annamalai Nagar, Cauvery College Road, Trichy-620018	Assistant Professor Department of Chemistry Cauvery College for Women Trichy 620018

### ACADEMIC INFORMATION

4. Designation & Department: Assistant Professor, Chemistry

5. Educational Qualification:

Degree	Year	College/University
Ph.D	2016	St Joseph's College, Trichy
B. Ed	2008	Swamy Vivekananda College, Arumbavur
M.Phil.,	2004	Bharathidasan University, Trichy
M.Sc.,	2002	Holy Cross College, Trichy
B.Sc.,	2000	Holy Cross College, Trichy

6. Researcher ID :

E Mail- [kshenbagam.chem@cauverycollege.ac.in](mailto:kshenbagam.chem@cauverycollege.ac.in)

[kanagarajanshenbagam@gmail.com](mailto:kanagarajanshenbagam@gmail.com)

Google Scholar- <https://scholar.google.com/citations?user=yiEY2aMAAAAJ&hl=en>

ORCID : <https://orcid.org/0000-0001-9332-6218>

Publons: <https://publons.com/researcher/4346680/shenbagam-k/>

Vidwan: <https://vidwan.inflibnet.ac.in/profile/206330>

7. Experience :

<b>Date of Joining</b>	<b>Institution</b>	<b>Year of Experience</b>
12.06.2017	Cauvery college for Women	Till date
03.08.2009-27.07.16	MAM College of Engineering	6 years and 11 months
20.09.2006- 0.12.2008	Srinivasan college of arts and science, perambalur	1 year 4 months
19.01.2004- 19.09.2006	Dhanalakshmi Srinivasan Collge of Arts and Science, perambalur.	2 years 8 months
09.08.2002- 12.04.2003	Govt Arts college for women , pudukkottai	8 months

**8. Areas of Specialization : Physical Organic Chemistry**

**9. Languages known : Tamil, English, Hindi**

**10. Subjects Taught :**

<b>UG</b>	<b>General Chemistry</b> <b>Chemistry of Consumer Products</b> <b>Organic Chemistry</b> <b>Physical Chemistry</b> <b>Health Chemistry</b>
<b>PG</b>	<b>Inorganic Chemistry, Physical Chemistry, Organic Chemistry</b>
<b>M.Phil</b>	<b>Research Methodology</b>

**11. Research Supervision:**

	<b>Thesis Completed</b>	<b>Pursuing</b>
<b>M.Phil</b>	<b>4</b>	<b>-</b>
<b>P.hD</b>	<b>-</b>	

**12. Details of Publications:**

<b>Journal Name &amp; Volume</b>	<b>Year of Publication</b>	<b>ISBN Number</b>	<b>Name of the Paper</b>	<b>Impact Factor</b>

**13. Details of Papers Presented:**

<b>Date &amp; Venue</b>	<b>Name of the Seminar</b>	<b>Paper Name</b>
<b>18.03.2019, Gandhigram Rural University</b>	<b>International conference on Research initiatives in chemistry for sustainable development(RICS -2019)</b>	<b>Impregantion of metal oxides on ceibea pentandra for the removal of malachite Green</b>
<b>15.03.2019 K Ramakrishna college of Technology</b>	<b>International conference on recent trends in nanomaterials for energy, environmental and engineering applications</b>	<b>Removal of basic dyes from water using nano composites- by conventional methods –A Review</b>
<b>19.05.2021 Sri Sivasubramania Nadar College of Engineering, Kalavakkam</b>	<b>Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA-2021)</b>	<b>Mechanistic Investigation of Oxidation Of Alcohols by N- Bromoisonipecotamide</b>
<b>03.03.2022 Holy Cross College , Trichy</b>	<b>Anticancer and Antimicrobial activities of Catharanthus Roseus flower extract</b>	<b>Futuristic Aspects of Sensors and Biosensors(IVCFASB- 2022)</b>

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

<b>Date &amp; Venue</b>	<b>Title</b>	<b>National / International</b>	<b>Topic</b>

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

<b>Year</b>	<b>Date</b>	<b>Title</b>	<b>National / International</b>	<b>Topic</b>	<b>Resource Person</b>

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

<b>12/06/2019 to 10/01/2020</b>	<b>Online Refresher Course in Chemistry for Higher Education Faculty-</b>	<b>ARPIT-NTA</b>	<b>82%</b>
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	2019(arp19-ap51)		
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**17. Details of Study Materials / Books written and published:**

Year	Book title	Book Chapter	Publishers
Feb- 2022	Emerging Trends in Science, Social Science Engineering and Management- A Multidisciplinary Approach ISBN No : 978-93-5546-016- 5	Selective Behaviour Of Aromatic Acetals Towards N- Haloamides - A Kinetic Approach	Research Circle

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

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

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

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

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

Year	Activity
2019	Cultural in-charge for chemistry
2020	Chem Star club Incharge

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

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

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

**25. Country visited:** Nil

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

Co-Investigator in TNSCST Project Sanctioned in the year of 2021-2022 for 7500/-

Working as question paper setter for many autonomous colleges as well as Universities.

**Co-investigator in TNSTSC Project -2021-2022**

Title- Synthetic applications of lanthanum oxide nano particle as functional biofilm preventer

Co-investigator in Seed Money Project Sanctioned by Cauvery College for Women 2021

**During lockdown period**

Number of FDP attended: 5

Number of webinars attended: 18

Number of workshop attended:

28. Workshop Attended in CCW: 3

## **RESEARCH DETAILS**

**TITLE: KINETICS AND MECHANISM OF OXIDATION OF BIOLOGICALLY ACTIVE AROMATIC ACETALS BY N-CHLOROAMIDES**

Details of research work: A new N- Halocompound N-chloroisonipecotamide is synthesized. Its oxidation kinetics on biologically active aromatic acetals is studied and is compared with the oxidation kinetics of other existing oxidants N-chloronicotinamide and N-chlorosuccinimide. The application aspect of the project is carried out in terms of studying the hepatoprotective activity of aromatic acetals and is compared with the normal. The acetals showed good activity.

## **PUBLICATIONS**

1. Kinetics and mechanistic investigation of N-bromonicotinamide oxidation of aromatic aldehydes, **Journal of Indian Chemical Society**, Vol. 86, October 2009, pp. 1-4.

2. Kinetics and Mechanism of Oxidation of Aliphatic Alcohols by N-Bromonicotinamide in Aqueous Acetic Acid, **Asian Journal of Chemistry**, Vol. 22, No. 1 (2010), 265-2.
3. Hepatoprotective and In Vivo antioxidant effects of benzaldehyde di-n-butyl acetal against CCl<sub>4</sub> - induced liver damage in rats, **RETELL**, An Interdisciplinary Research Journal, Vol. 12, No. 2, April 2012, pp. 79-83.
4. Hepatoprotective and In Vivo antioxidant effects of aromatic acetals against CCl<sub>4</sub> - induced liver damage in rats, **Journal Chemical and Pharmacutical Research**, 2012, 4(4): 1995-2000.
5. Kinetics and mechanism of oxidation of aromatic acetals by N-chloronicotinamide in acetonitrile medium, **Journal of Indian Chemical Society**, Vol. 89, October 2012, pp. 1343-1346.
6. Kinetics and Mechanism of Oxidation of Aromatic Acetals with N-Chlorosuccinimide, **International Journal of Pharmaceutical and Chemical Sciences**, Vol. 2(1), Jan-Mar 2013.
7. Synthesis of New Oxidant N-chloroisonipecotamide and its Oxidation Kinetics on Aromatic Acetals, **Oriental Journal of Chemistry**, Vol. 29, No. 2, 2013, pp. 747-752.
8. Kinetics and mechanism of reactions of aromatic acetals with N-Chloronicotinamide, **Research Journal of Chemistry and Environment**, Vol. 17(4), April (2013).