

## RESUME



**Dr. D. JAYAKUMAR, Assistant Professor of Chemistry**  
**Department of Chemistry ST. Xavier's College,**  
**Palavamkottai. Thirunelveli 627 002**

Date of Birth : 02-03-1985  
Qualification : M,Sc; Ph.D, SET  
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### ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
UG	Chemistry	LOYOLA COLLEGE, CHENNAI	University of Madras	2006
PG	Chemistry	LOYOLA COLLEGE, CHENNAI	University of Madras	2008
PhD	Chemistry	AUXILIUM COLLEGE, VELLORE	Thiruvalluvar University	2014
SET	Chemistry	-	Mother Teresa Univeristy	2016

### RESEARCH IDENTITY

FORUM	ID
VIDWAN ID	288299
ORCID ID	0000-0003-2804-995X
RESEARCHER ID	rid28570

TEACHING EXPERIENCE	
Date of Appointment	17-06-2019
Date of Retirement	14-06-2043
Teaching Experience at Under graduate program	UG 8 Years
Teaching Experience at Post graduate program	PG 8 Years

COURSES/ CLASS TAUGHT	INSTITUTIONS	DURATION		
		From	To	Years/se mester
Organic Chemistry	St.Xavier's College (Autonomous), Palayamkottai And D.G.VAISHNAV COLLEGE, CHENNAI	17-06- 2014	Till date	8 YEARS
Physical Chemistry	St.Xavier's College (Autonomous), Palayamkottai	17-06- 2019	21-12-2020	1 semester
Inorganic Chemistry & Allied chemistry	D.G.VAISHNAV COLLEGE, CHENNAI	01-09- 2014	31.05.2019	4.5 YEARS

AWARDS RECEIVED	
1.	Won <b>best Faculty award</b> at "EDC Free-India" programme conducted by CFMEEAcademy, chennai, tamilnadu, India on 28 <sup>th</sup> December 2016
2.	<b>Best Oral presentation (Third Prize)</b> in the national Conference on "Recent Application of Nanomaterials in Chemistry and Environmental Research" held on 18 <sup>th</sup> and 19 <sup>th</sup> February 2011.

MEMBERSHIP		
S. No	Designation	Particulars
1.	Member	INDIAN SCIENCE CONGRESS ASSOCIATION (Kolkata) Membership no:L32540

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE			
S. No	Name of the Training	Name of the Sponsoring	Place and Date

		Agency	
1	Faculty Development Programme	IQAC cell at D.G.Vaishnav College , Arumbakkam	Chennai and 18 <sup>th</sup> and 19 <sup>th</sup> march 2016.
2	Orientation Programme for Teachers	IQAC at ST.Xavier's college Palayamkottai,	Tirunelveli and 15 <sup>th</sup> and 16 <sup>th</sup> July 2022
3	4 weeks induction/orientation programme for Faculty in Universities/Colleges/Institutes of Higher Education	SHRI RAMANUJAM COLLEGE, DELHI	20 June 2022-19 July 2022

### DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
PhD	<b>STUDIES ON ANTIOXIDANT, ANTIBACTERIAL AND HEPATO PROTECTIVE ACTIVITIES OF THE LEAF EXTRACTS OF <i>MORINDA PUBESCENS</i></b>	Thiruvalluvar University

### AREAS OF RESEARCH

Phytochemistry

organic chemistry

Activated Carbon

### RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration

### PUBLICATIONS: BOOKS

S. No	Title of the Book	Publication	Year
1	<i>Lab Manual of Organic and Phyto Chemistry.(for theory and practice)</i> ISBN. NO.978-81-933712-0-6.	IndiaELOmega technologies	2016

### BOOK CHAPTERS ()

S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No

<b>PUBLICATIONS: SCOPUS INDEXED JOURNALS (2) WEB OF SCIENCE</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>
1	High performance of pyrochlore like $\text{Sm}_2\text{Ti}_2\text{O}_7$ heterojunction photocatalyst for efficient degradation of rhodamine-B dye with waste water under visible light irradiation	Journal of King Saud University	Science 32(2), 1516-1522
2	.Antioxidant and cytotoxic effects of hexane extract of <i>Morinda pubescens</i> leaves in human liver cancer cell line,	Asian Pacific Journal of Tropical Medicine	2012,5(5), 362-366

<b>PUBLICATIONS: UGC LISTED JOURNALS (3)</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>
1	Antioxidant and Antimicrobial Activities of <i>Wedelia trilobata</i> and <i>Morinda pubescens</i>	Asian Journal of Chemistry	23(1), 305-308
2	Evaluation of antioxidant potential and antibacterial activity of <i>Calotropis gigantea</i> and <i>Vincarosea</i> using <i>in-vitro</i> model, Indian Journal of Science and technology	Indian Journal of Science and Technology	2010, 3 (7), 720-723
3	Comparison of the antioxidant and antimicrobial activities of selected Indian medicinal plants with the poly ortho amino phenol and its nano compounds	International journal of Environment and Earth Sciences	2011,1(2), 50-59

### **MEMBERSHIP IN ACADEMIC BODY**

**Academic Membership:** Member of INDIAN SCIENCE CONGRESS ASSOCIATION (Kolkata) Membership no:L32540

### **RESOURCE PERSON AND TRAINING PROGRAM PARTICIPATED**

- Acted as a **TRAINER** and conducted training session for employees of NOVA carbons India pvt. Ltd. Gangai kondan, on **5<sup>th</sup> and 22<sup>nd</sup> March 2022.**

- Chaired as a **RESOURCE PERSON** in a webinar titled "PRINCIPLE AND PRACTICES OF PHYTOCHEMICAL RESEARCH" conducted by Auxilium college and Sacred Heart college, India, **23<sup>rd</sup> July 2020**.
- Qualified - **TAMIL NADU STATE ELIGIBILITY TEST (TNSET)** conducted by Mother Teresa Women's University, Kodaikanal, India in **2016**.
- Participated- **FACULTY DEVELOPEMENT PROGRAMME** organized by IQAC cell at D.G.Vaishnav College conducted on 18<sup>th</sup> and **19<sup>th</sup> march 2016**.
- Attended **ORIENTATION PROGRAMME FOR TEACHERS** organized by IQAC at ST.Xavier's college Palayamkottai, Tirunelveli on **15<sup>th</sup> and 16<sup>th</sup> July 2022**

### **CERTIFICATE OF APPRECIATIONS**

1. Chaired as **Judge at National seminar** on "BIOTECHNICAL APPROACHES TOWARDS SUSTAINABLE FUTURE" conducted by dept. of Biotechnology, D.G.Vaishnav College on 28<sup>th</sup> february 2018.

### **C) RESEARCH EXPERIENCE**

- 3 years of research experience in Antioxidant studies, isolation and characterization of antioxidant compounds from selected Indian medicinal plants at Auxilium college, katpadi (June 2009-February 2012)
- Worked as trainee in Captain Srinivasa Murthi Research Institute, Aminjikarai, Chennai (April – May 2010)

### **E) CONFERENCE -PRESENTATIONAND PARTICIPATION**

<b>S.No</b>	<b>Date</b>	<b>Presentation</b>	<b>Conference</b>
1	13/10/09	<b>ORAL PRESENTATION</b>	National Seminar on Recent Trends in Biochemistry
2	12/2/10-4/2/10	<b>POSTER</b>	Indian Herbal Conference, Chennai
3	4/1/11	<b>PARTICIPANT</b>	<b>International</b> Conference on gene therapy and phytotherapy in Modern medicine
4	18/2/11-19/2/11	<b>ORAL PRESENTATION</b>	National Conference on Recent Applications of Nanomaterials in Chemistry and Environmental Research
5	29/7/11-30/7/11	<b>ORAL PRESENTATION</b>	<b>International</b> Conference on frontiers in Pharmaceutical Chemistry and Biologics-An interdisciplinary Approach-
6	3/3/12-4/3/12	<b>POSTER</b>	<b>International</b> conference on global trends in pure and applied chemical sciences
7	7/8/12-9/8/12	<b>ORAL PRESENTATION</b>	<b>Proceedings of International</b> Conference on Molecular Spectroscopy of Adavanced materials and Biomolecules
8	22/8/16-23/8/16	<b>PARTICIPANT</b>	<b>International conference</b> on Mordern Diagnostic tools in Health Science.
9	22/9/17	<b>PARTICIPANT</b>	<b>National</b> Seminar on Herbal Drug Development.
10	13/9/17-14/9/17	<b>PARTICIPANT</b>	<b>International</b> Conference on Molecular Signature-GenNxt.

11	22/12/17- 23/12/17	<b>ORAL PRESENTATION</b>	<b>IYNTHAMIZ AAYIVU MANDRAM, pillayarpatti.</b>
12	24/1/18-25/1/18	PARTICIPANT	<b>NATCON-2018</b>
13	3/2/2021- 4/2/2021	<b>ORAL PRESENTATION</b>	<b>International conference on frontiers in chemical research, Trichy, Tamil Nadu, India</b>

### **TECHNICAL SKILLS AND EXPOSURE**

#### **A) DATA ANALYSIS RELATED SKILLS**

good experience in dealing with computerized statistical packages for analyzing data, such as the SPSS 12.0 and Origin 8.5.

#### **B) INSTRUMENTAL TECHNIQUES KNOWN**

UV, FT-IR, GC, HPLC, HPTLC, Cooling Centrifuge, Rotary Vacuum Evaporator, NMR and Flame photometer

#### **C) WORKSHOPS PARTICIPATED**

- Acquired hands on technical skills on GC, HPLC and HPTLC in Asthagiri Research Lab.
- Participated in a short term course on NMR Spectroscopy at SAIF, IIT madras during 8-10 March 2012.
- Attended and participated in the workshop semi-micro qualitative techniques on Inorganic and organic analysis conducted by RUSAC committee at Auxilium College on 15<sup>th</sup> September 2012.

### **EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES**

#### **ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)**

STAND an extension programme incharge for PG chemistry students from 2016-2018

Member of Quiz club 2021

Member of MAXFORUM

Member of Enviroclub

Date: 6 October2022

Dr.D. Jayakumar