

Dr. K. VIJAYALAKSHMI
M.Sc., M.Phil., B.Ed., Ph.D
Associate Professor of Chemistry
Rajah Serfoji Government College (Autonomous)
Thanjavur – 613 005, Tamil Nadu, India



Mobile: 9524282438

Email: vijkraja96@gmail.com

Google Scholar: <https://scholar.google.com/citations?hl=en&user=G9Gdg-gAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57296766400>

PERSONAL DETAILS

- **Date of Birth:** 29.06.1979
- **Gender:** Female
- **Residential Address:** MIG-28, Tamil University Campus, Chinthamani, M.C. Road, Thanjavur – 613 010
- **Permanent Address:** MIG-28, Tamil University Campus, Chinthamani, M.C. Road, Thanjavur – 613 010

EDUCATIONAL QUALIFICATIONS

Degree	Year	Institution	Remarks
Ph.D., Chemistry	2018–2022	Rajah Serfoji Govt. College (Autonomous), Thanjavur – Bharathidasan University	—
M.Phil., Chemistry	2001–2002	Government Arts College, Kumbakonam	Distinction
M.Sc., Chemistry	1999–2001	Government Arts College, Kumbakonam	First Class
B.Sc., Chemistry	1996–1999	Government College for Women, Kumbakonam	First Class
B.Ed.	2003–2004	Lady Willingdon College of Education, Chennai	First Class

Other Examinations

- Passed **SET** (2012)
- Departmental Examination (EO) – 2010
- **TRB** Qualified – 2005

TEACHING EXPERIENCE

Duration	Position	Institution
13.10.2008 –	Associate Professor of	Rajah Serfoji Govt. College (Autonomous),

Present	Chemistry	Thanjavur
05.10.2005 – 12.10.2008	BT Assistant	Government High School, Rayandapuram, Thiruvannamalai (D.t)
07.06.2004 – 30.04.2005	Lecturer	PMP Arts & Science College, Dharmapuri

RESEARCH SUPERVISION

- **M.Sc. Projects Guided:** 40
- **M.Phil. Guided:** 10
- **Ph.D. Supervision:** —

AREA OF SPECIALIZATION

- Corrosion
- Nanochemistry
- Adsorption

ORIENTATION & REFRESHER COURSES

- Orientation Course – Ethiraj College, Chennai (2008)
- Refresher Course in Chemistry – BDU, Tiruchirappalli (2011)
- Refresher Course (Interdisciplinary) – Bharathiyar University (2018)
- Refresher Course (Interdisciplinary) – Ranchi University (2021)
- Refresher Course in Research Methodology – Ramanujan College, University of Delhi (2022)

RESEARCH PUBLICATIONS

(Scopus Only)

1. **Vijayalakshmi K**, et al. Biogenic ZnO nanoparticles for α -amylase inhibition and K562 leukemia therapy. *Food Bioscience*, 2025.
2. **Vijayalakshmi K**, Elangovan J. Quantum chemical and protective performance of acetamide inhibitor on mild steel. *IJCT*, 2025.
3. **Vijayalakshmi K**, Elangovan J. Effect of 1,2,3-triazole derivative on mild steel dissolution. *IJCT*, 2022.
4. **Vijayalakshmi K**, Elangovan J. Triazole derivative as corrosion inhibitor: kinetic & thermodynamic studies. *JICS*, 2020.

5. Rengasamy R, **Vijayalakshmi K**, et al. Metal-free synthesis of triazoles. *Tetrahedron Letters*, 2021.
 6. Rengasamy R, **Vijayalakshmi K**, et al. Tunable synthesis of triazoles & enamines. *Eur. J. Org. Chem.*, 2022.
 7. Punitha N, **Vijayalakshmi K**, et al. Pyrazole derivative for corrosion mitigation. *JICS*, 2022.
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PAPER PRESENTATIONS

- Presented a paper entitled **Anti corrosive effect of pyrazole derivative in 1M HCl medium** in the National seminar on Energy Materials Applications and Conservations by Government Arts College (Autonomous), Kumbakonam on 12-13 march 2020.
 - Presented a paper entitled **1,2,3 triazole derivatives as corrosion inhibitors on mild steel in 1M HCl: A Comparative analysis** in the International conference on Chemical and Environmental Research (ICCER 2020) by Jamal Mohamed college, thiruchirapalli on 8 th Jan.2020.
 - Presented a paper entitled **Green synthesis of Schiff base and its complexes using natural acid catalyst under microwave condition** in the International conference on Chemical and Environmental Research (ICCER 2015) by Jamal Mohamed college, thiruchirapalli on 17 th Dec.2015.
 - Presented a paper entitled **Microwave assisted synthesis of Rosuvastatin sulphate and its characterization** in the National seminar on New opportunities and challenges in chemical research by A.V.V.M Sri pushpam college (Autonomous), Poondi, Thanjavur (Dt) on 29-30th Dec.2014.
 - Presented a paper entitled **Nanosized Technological Approaches for the Delivery of poorly water soluble Rosuvastatin Calcium** in the National conference on Current perspectives and challenges in Biodiversity and its Conservation held on 6-7th Mar 2015.
 - Presented a paper entitled **Modified Natural Carrier in Solid Dispersion for the Solubility Enhancement of Rosuvastatin Calcium by Nanotechnology** in the National conference on Current perspectives and challenges in Biodiversity and its Conservation held on 6-7th Mar 2015.
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SEMINARS / CONFERENCES ATTENDED

- Attended a UGC Sponsored Webinar on **Professional ethics for Teachers** at Bharathidasan University, Thiruchirappalli on 16.08.2021
- Attended a Webinar lecture on **Concepts of Co-ordination Chemistry** at Department of Chemistry, St. Joseph University, Nagaland on 31.03.2021
- Attended a Webinar lecture on **Serendipities in Chemistry** at Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai on 05.06.2020.
- National conference on **Recent Trend in Material Science (NCRIMS -2020)**- Dept. of Chemistry, Thiru. Vi. Ka Government Arts and Science College,

Thiruvarur on 14 th Feb. 2020.

- **Manufacturing Techniques in House Cleaning and Refreshing Materials** – Dept. of Chemistry, Rajah Serfoji Govt.College (Auto),Thanjavur on 04.03.2014.
 - **Recent Trends in Polymer and Green Chemistry** – Dept. of Chemistry, Rajah Serfoji Govt.College (Auto),Thanjavur.- 2 & 3 February 2012.
 - **NMR Applications and Energy Materials** – Dept.of Chemistry, Rajah Serfoji Govt.College (Auto), Thanjavur. - 21 February 2011.
 - **Challenges and Research Avenues in Physical Sciences** – Government College for women (auto)- Kumbakonam- 10th Febraury 2010.
 - **Honour Crimes in INDIA: Lessons and Cautions** – Department of Women studies,Bharathidasan University, Thiruchirappalli on 31.01.15.
 - **Bio Active Polyphenols-** Anjalai Ammal Mahalingam Engineering College,Kovilvenni,Thanjavur -10 &11 march 2003.
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ADMINISTRATIVE & ACADEMIC POSITIONS

- Member, **Board of Studies**, PG & Research Dept. of Chemistry
 - Member, **Women Cell**
 - Member, **Fine Arts Club**
 - Member, **Entrepreneurship & Placement Cell**
 - Member, **Gender Equality & Awareness Committee**
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INVITED TALKS / RESOURCE PERSON

- Resource Person – Computational Chemistry, **Bon Secours College**, Thanjavur
 - Invited Speaker – Career Opportunities in Science, **Kamala Subramaniam Matric Hr. Sec. School**, Thanjavur
 - Resource Person – National Conference on “NanoLife”, **Mass College**, Kumbakonam
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CHIEF GUEST / SPECIAL INVITATIONS

- Women’s Day – **Tamil University**, Thanjavur
 - Kamarajar Kalvi Valarchi Naal – **St. Joseph School**, Trichy
 - Science Exhibition – **C.S. Matriculation School**, Mariyamman Koil, Thanjavur
 - Women’s Day – **Thiru.Vi.Ka. Govt. Arts College**, Thiruvarur
 - Judge – Independence Day Debate, **RSGC**, Thanjavur
 - Participant – Kaviarangam & College Debate
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