

**Aditanar College of Arts and Science**  
**Virapandianpatnam – 628216**  
**Tiruchendur**  
**Bio - Data**



**Name of the Department** : Chemistry

**Name of the faculty member** : **Dr. C.KAVITHA**

**Qualification** : M.Sc.,M.Phil.,Ph.D.,P.G.D.C.A.,

**Present Designation** : **Head & Assistant Professor**

**Vidwan id** : 252627

**Residential Address** : 30, Nambikkai Roche Villai Street,  
Thoothukudi – 628 001, Tamilnadu.

**Contact Nos.** : 9952322550

**Email** : sivakavetha@gmail.com

**Gender** : Female

**Community** : Backward Class

**Date of Birth and Age** : 17.07.1983 & 40 years

**Date of joining** : 02.09.2005

**Date of Retirement** : 17.07.2043

**I. Particulars of Educational Qualification :**

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	Chemistry	2003	St.Mary's College, Thoothukudi.	Manonmaniam Sundaranar University	87.85	I
PG	M.Sc	Chemistry	2005	V.O.Chidambar am College, Thoothukudi	Manonmaniam Sundaranar University	71.83	I (Gold medalist)
M. Phil	M.Phil	Chemistry	2008	Centre for Distance Education	Bharathidasan University.	84.20	I
Ph.D.	Ph.d	Chemistry	2021	Aditanar College of Arts and Science, Tiruchendur	Manonmaniam Sundaranar University	-	-

**II Additional Qualification** : SET (2006, Bharathiar University)  
**NET/SLET**

**III Title of Ph.D. Thesis** : Salen Mediated Reactions and Linear Free Energy Relationships

**IV Faculty/Discipline/Subject in which Ph.D. was awarded :**

List of Publications : 5 (Details Attach separate sheet)

No. of Candidates Completed Ph.D. under your Guidance : Nil (Details Attach separate sheet)

No. of candidates doing Ph.D. under your Guidance : Nil (Details Attach separate sheet)

**V Academic Experience:**

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Aditanar College of Arts and Science, Tiruchendur	Management	Lecturer	02.09.2005	06.10.2006	1	1	4
Aditanar College of Arts and Science, Tiruchendur	S.F	Lecturer	07.10.2006	15.06.2008	1	4	8
Aditanar College of Arts and Science, Tiruchendur	Aided	Assistant Professor	16.06.2008	Till date	15	4	2
<b>Total</b>					<b>17</b>	<b>9</b>	<b>14</b>

**VI Administrative/other Experience:**

- i) Director, Health Club
- ii) Coordinator, Common test
- iii) Member, News letter

**VII Other Relevant Information:****Book chapters or Papers published in national/international conference/Seminar/ workshop proceedings**

Title of the Chapter/paper	Name of the authors	Name of the conference	National/International	Year of publication	Publisher/Affiliating Institute at the time of Publication
Observation of electronic effects that cause change in the rate determining step for the sulfoxidation of phenylmercaptoacetic acids by oxovanadium(IV)-salen complexes'	C.Kavitha, P. Subramaniam	Recent Advances in Chemistry and Material Science (RACM-2018),	State level seminar	15 <sup>th</sup> February 2018	PG Department of Chemistry, Aditanar College of Arts and Science, Tiruchendur.
Shackling effect of ligand oxides in the oxovanadium(IV)-salen catalyzed sulfoxidation of phenylmercaptoacetic acids by hydrogen peroxide'	C.Kavitha, P. Subramaniam	Advanced Materials and their Applications (ICAMA-2018)	International Conference	27 <sup>th</sup> December 2018	PG and Research Department of Chemistry, V.O. Chidambaram College, Thoothukudi.
'Competitive reaction between phenylmercaptoacetic acids and nitrogen base in the oxovanadium(IV)salen catalyzed oxidation'	C.Kavitha, P. Subramaniam	Nanomedicine (ICON-2019),	International Conference	25 <sup>th</sup> & 26 <sup>th</sup> February 2019	Madurai Kamaraj University, Madurai.
'Critical role of acetate ion as external axial ligand in the oxovanadium(IV)-salen catalyzed oxidation of phenylmercaptoacetic acids by hydrogen peroxide'	C.Kavitha, P. Subramaniam	Emerging Trends in Bioinorganic and Pharmaceutical Chemistry (ETBPC-2019)	National Seminar	27 <sup>th</sup> and 28 <sup>th</sup> February 2019	Department of Chemistry, VHNSN College, Virudhunagar .
'Effect of substituents on oxovanadium(IV)-salen ligand in the oxidation of phenylmercaptoacetic acids by hydrogen peroxide'	C.Kavitha, P. Subramaniam	Emerging Trends in Chemical Sciences (ICETCS-2019)	International Conference	6 <sup>th</sup> September 2019	Department of Chemistry, Arulmigu Palaniandavar Arts College for women, Palani
'Electronic and Steric Effects on the Sulfoxidation of Phenylmercaptoacetic acids in presence of Ligand oxides'	C.Kavitha, P. Subramaniam	Recent Developments in the Applications of Chemistry (RDABC-2019)	State level Conference	19 <sup>th</sup> September 2019	Department of PG Chemistry, Aditanar College of Arts and Science, Tiruchendur
'Restraining role of trichloroacetic acid in the oxovanadium(IV)-salen	C.Kavitha, P. Subramaniam	Advanced Materials and their	International Conference	13 <sup>th</sup> December 2019	Department of Chemistry, V.O. Chidambaram

catalyzed oxidation of phenylmercaptoacetic acids by hydrogen peroxide’,		Applications (ICAMA-2019)			College, Thoothukudi
‘Effect of substituents and axial ligands on sulfoxidation of phenylmercaptoacetic acids by hydrogen peroxide’,	C.Kavitha, P. Subramaniam	Advanced Materials Chemistry at the Interfaces of Energy, Environment and Medicine (AMCI-2020),	International Conference	30 <sup>th</sup> and 31 <sup>st</sup> January 2020	Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli
‘Effect of substituents on oxovanadium(IV)-salen ligand in the oxidation of phenylmercaptoacetic acids by hydrogen peroxide in presence of trichloroacetic acids’	C.Kavitha, P. Subramaniam	Advanced Materials and their applications (ISAMA-2023),	International Conference	25 <sup>th</sup> January 2023	Department of Chemistry & Research Centre, Aditanar College of Arts and Science, Tiruchendur,

### Research papers published in the Journals:

Title of paper	Name of the authors	Name of journal	Year	Volume, Issue,	Page No,	ISS Number
Alteration of electronic effect causes change in rate-determining step: Oxovanadium(IV)-salen catalyzed sulfoxidation of phenylmercaptoacetic acids by hydrogen peroxide <a href="https://doi.org/10.1016/j.poly.2019.114172">https://doi.org/10.1016/j.poly.2019.114172</a>	C.Kavitha, P. Subramaniam	Polyhedron	2020	175	114172	0277-5387
Competitive behaviour of nitrogen based axial ligands in the oxovanadium(IV)-salen catalyzed sulfoxidation of phenylmercaptoacetic acid <a href="https://doi.org/10.1016/j.poly.2020.114172">https://doi.org/10.1016/j.poly.2020.114172</a>	C.Kavitha, P. Subramaniam	Polyhedron	2020	189	114712	0277-5387
Role of trichloroacetic acid in the catalytic activity of oxovanadium(IV)-salen in the sulfoxidation of phenylmercaptoacetic acids <a href="https://doi.org/10.1016/j.poly.2022.115779">https://doi.org/10.1016/j.poly.2022.115779</a>	C.Kavitha, P. Subramaniam	Polyhedron	2022	218	115779	0277-5387
Impact of added ligand oxides in the sulfoxidation of phenylmercaptoacetic acids with oxovanadium (IV)-salen complexes <a href="https://doi.org/10.1002/poc.4483">10.1002/poc.4483</a>	C.Kavitha, P. Subramaniam	Journal of physical Organic Chemistry	2022	36 Issue 5	e4483	0894-3230
Adsorption and electrochemical studies of thio acetamide inhibitor on gas pipeline metal in natural sea water environment. <a href="https://doi.org/10.31838/ecb/2023.12.s3.425">10.31838/ecb/2023.12.s3.425</a>	Mathusuthan, P. Deepa Rani, C.Kavitha	European chemical bulletin	2023	12		2063-5346