

RESUME



Name: Dr. M. S. Selvakumar
Designation: Assistant Professor
Department: Chemistry
Address: Amazing Grace, plot No 73, S.K. Nagar, Jothipuram,
Konganthanparai (PO), Palayamkottai 627 007

PERSONAL DETAILS

Date of Birth : 25.06.1977
Qualification : M.Sc., M.Phil., S.E.T., Ph.D.
Designation : Assistant Professor
Department : Chemistry
Community : B.C
Religion : Christian
Nationality : Indian
Mobile : 9994726979

Email ID : mssels.chem@gmail.com

ACADEMIC QUALIFICATIONS				
Degree	Specialization	College	University	Year of Passing
B.Sc	Chemistry	St Joseph's College, Trichirappali	Bharathidasan University, Trichy	1998
M.Sc	Chemistry	St Joseph's College, Trichirappali	Bharathidasan University, Trichy	2000
M.Phil	Chemistry	St Joseph's College, Trichirappali	Bharathidasan University, Trichy	2002
S.E.T	Chemistry		Bharathiar University, Coimbatore	2006
Ph.D	Chemistry	St Joseph's College, Trichirappali	Bharathidasan University	2018
ACADEMIC IDENTITY				
*VIDWAN ID				
*ORCID ID				
*SCOPUS ID				
*RESEARCHER ID/ PUBLONS ID				
GOOGLE SCHOLAR LINK				

TEACHING EXPERIENCE	
Date of Appointment	18.09.2006
Date of Retirement	30.09.2036
Teaching Experience	UG 20Y
	PG 10Y

	M.Phil.
Research	Guided M Phil: 5 Guided Ph D: Guiding Ph Scholar:

COURSES/CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc/M.Sc Chemistry	St. Joseph's College, Trichy	2002	2006	4
B.Sc/M.Sc Chemistry	Loyola College, Chennai	2006	2006	1
B.Sc/M.Sc Chemistry	St. Xavier's College, Palayamkottai	2006	Till date	16

AWARDS RECEIVED	
1.	
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR
1	Placement officer	St Xavier's College, Palayamkottai	2010
2	Head of the Department	St Xavier's College, Palayamkottai	2017

MEMBERSHIP		
S. No	Designation	Particulars
1.		
2.		
3.		
4.		
5.		

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE ()			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation Programme	UGC	Academic Staff College, Bharathidasan University, Tiruchirappalli from 09.11.2010 to 06.12.2010
2	Refresher Course	UGC	Academic Staff College, Madurai Kamaraj University, Madurain from 12.07.2012 to 01.08.2012
3	Refresher Course	UGC	HRDC, Bharathidasan University, Tiruchirappalli from 20.12.2017 to 09.01.2018
4	Refresher Course	UGC	Guru Tegh Bahadur khalsa College, Delhi (SWAYAM ARPIT) 30.03.2019
5	Training Programme on Academic Leadership and Education Management	UGC	Aligarh Muslim University, Aligarh under the scheme of PMMMNMTT at UGC-HRDC, Bharathidasan University, Tirchirappalli from 24.04.2019 to 27.04.2019
6	Course on Enhancing Quality of Chemistry Education in India	UGC	Guru Angad Dev Treaching Learning Centre A Centre of Ministry of Education under PMMMNMTT from 25.02.2021

DETAILS OF RESEARCH WORK		
Research Stages	Title of the Thesis	University where the work was carried out
Ph.D	Electrochemical Approach to analytical and synthetic studies of substituted aromatic compounds.	St Joseph's College, Trichirappalli

AREAS OF RESEARCH

Electrochemistry

RESEARCH PROJECTS CARRIED OUT

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

PUBLICATIONS

BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	

PUBLICATIONS: BOOKS ()

S. No	Title of the Book	Publication	Year
1	Quantum Chemistry	Publisher : Tata McGraw Hill Education (1 January 2012) ISBN-10 : 8182091039 ISBN-13 : 978-8182091030	2012

--	--	--	--

BOOK CHAPTERS ()

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

PUBLICATIONS: SCOPUS INDEXED JOURNALS () WEB OF SCIENCE ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No

PUBLICATIONS: UGC LISTED JOURNALS ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No

PUBLICATIONS: OTHER INDEXED JOURNALS ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor &Pg.No
1	<i>Synthesis and characterization of phthalic acid complexes with biologically active metal ions</i>	Mapana Journal of Sciences,.	MSJ Vol. 1, No:2, Dec 2002 – April 2003, Christ College, Bangalore

2	Comparison of Coordination of Ni (II) ions with mono and di carboxylic acids	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.5, No: 1, Dec 2004, St Joseph's College (Autonomous), Tiruchirappalli –2.
3	Studies on the interaction of Carboxyl group of benzoic acid with biologically active metal ions,	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.5, No: 1, Dec 2004, St Joseph's College (Autonomous), Tiruchirappalli –2.
4	Synthesis and characterization of benzoic acid complexes with biologically active metal ions,	Mapana Journal of Sciences,	MSJ Vol. 4, No: 1, Jan 2005 – June 2005, Christ College, Bangalore.
5	Comparison of Coordination of Co (II) ions with mono and di carboxylic acids,	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.5, No: 2, April 2005, St Joseph's College (Autonomous), Tiruchirappalli –2
6	Comparison of Coordination of Cu (II) ions with mono and di carboxylic acids,	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.5, No: 2, April 2005, St Joseph's College (Autonomous), Tiruchirappalli –2.
7	Comparison of Coordination of Mn (II) ions with mono and di carboxylic acids,	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.5, No: 2, April 2005, St Joseph's College (Autonomous), Tiruchirappalli –2.
8	A Kinetics and mechanistic study of oxidation of aromatic ketone by N-Chloro nicotinamide,	RETELL (Research, Teaching, Learning Letters – An interdisciplinary Journal)	Vol.6, No: 1, Dec. 2005, St Joseph's College (Autonomous), Tiruchirappalli –2
9	Characterisation of newly synthesized organic nonlinear optical crystal: benzoyl valine,	Eur. Phys, J. Applied Physics,	May 2010, 50 (2).
10	Electro analytical studies on ethoxylation of benzyl alcohol,	oriental journal of chemistry,	2011, vol. 27, No 3 Pg. 1157-1163
11	Electro analytical studies on ethoxylation of o – nitrophenol,	International Journal of ChemTech Research CODEN(USA):	IJCRGG ISSN : 0974 4290 Vol.4, No.3, pp1218-1222, July-Sept2012

12	<i>A facile hydrothermal route to synthesis of novel Pbl₂ nano rods,</i>	Journal of Physics and Chemistry of solids,	Nov 2012, 73 (11), 1396-1400.
13	<i>Naked eye sensing of Hg(II) using b-cyclodextrin functionalized silver nanoparticles,</i>	Scienza Acta Xaveriana,	ISSN 0976-1152, vol 4, no:1, pp. 103-110, March 2013.
14	<i>Electroanalytical studies on ethoxylation of phthalic acid,</i>	Der Chemica Sinica,	2014, 5(3):34-37 ISSN: 0976-8505 CODEN (USA) CSHIA5
15	<i>Cyclic voltammetric studies of sulphanic acid on platinum electrode,</i>	International journal of Emerging Trends in Science and Technology,	volume 01, Issue 03, page 221-230, May 2014.
16	<i>Electrochemical comparative studies of ortho, meta and para nitrophenols,</i>	International journal of Emerging Trends in Science and Technology,	volume 01, Issue 03, page 252-263, May 2014.
17	<i>Cyclic voltammetric studies on Ethoxylation of Benzyl alcohol,</i>	Chemical Science Review and Letters,	2014, 2(7), 515-520
18	<i>Flourescence detection of Fe³⁺ ions using green synthesized photoluminecent carbon nanodots,</i>	Jouranal of Applied Science and computation,	VI (VI) June 2019, 1187-1200.
19	<i>Turn of fluorescence sensing of Hg²⁺ using nitrogen dopped carbon nano dots derived fron bio precursor,</i>	Jouranal of Applied Science and computation,	VI (VI) June 2019, 1364-1379.
20	<i>Cyclic voltammetric studies on Electrochemical oxidation of Salicylaldehyde using platinum as anode,</i>	Alochana Chakra journal,	volume IX, issue V, May 2020.
21	<i>Electroanodic Synthesis and Characterisation of p-Ethoxy Acetanilide,</i> Alochana Chakra Journal,	Volume IX, Issue v, May 2020.	Volume IX, Issue v, May 2020.
22	<i>Electroorganic Synthesis and Characterization of 4-Ethoxy Acetanilide using Platinum and Graphite as</i>	Journal of Scientific Research,	J. Sci. Res. 14 (2), 583-591 (2022)

	Anodes,		
23	Synthesis and characterization of chitosan encapsulated nickel oxide nanoparticles modified with folic acid,	journal homepage : www.elsevier.com/locate/matpr-inpress	
24	Optical, and electrochemical performance of selenium decorated reduced graphene oxide assisted (CoSe ₂) nanoparticles for oxygen reduction reaction	journal homepage : www.elsevier.com/locate/matpr-inpress	

AS A RESOURCE PERSON (26)			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Judge for school exhibitions	State Government	Schafter School, Tirunelveli on 08.10.2010
2	Judge for school exhibitions	State Government	St. Ignatius convent on 30.08.2010
3	Judge for school exhibitions	State Government	District Science Centre on 3.08.2010
4	Young Student Scientist Programme	St Xavier's College	St Xavier's College, Palayamkottai for 20 days from 06 to 25.05.2013.
5	Inauguration of chemistry association, Lecture on "Applications of Group Theory in Chemistry"	Sri Parasakthi College for Women, Courtallam on 04.09.2014.	Sri Parasakthi College for Women, Courtallam on 04.09.2014.
6	Association meeting,	Sarah Tucker College,	1. Sarah Tucker

	Lecture on Quantum mechanics	Tirunelveli	College, Tirunelveli on 11.08.2016.
7	Association meeting Lecture on Electrochemistry	Sadakathullah Appa College, Palayamkottai	Sadakathullah Appa College, Palayamkottai on 24.10.2017.
8	Delivered a lecture on Quantum Chemistry	Ayya Nadar Janaki Ammal College, Sivakasi	Ayya Nadar Janaki Ammal College, Sivakasi on 07.02.2018.
9	Delivered a lecture on Quantum Chemistry in the Second State Level Preparative Workshop in Chemistry (PWC-18) for the NET/GATE/TNSET aspirants -2018 in the	Department of Chemistry, St Joseph's College (Autonomous), Trichy	Department of Chemistry, St Joseph's College (Autonomous), Trichy on 18.09.2018.
10	Delivered valedictory address in an awareness rally on "No to plastic and yes to helmet"	St Xavier's College of Education (Autonomous), Palayamkottai	St Xavier's College of Education (Autonomous), Palayamkottai on 25.09.2018.
11	Delivered a lecture on Quantum mechanics in the Chemistry Association meeting	Sarah Tucker College, Tirunelveli	Sarah Tucker College, Tirunelveli on 03.09.2019.
12	Delivered a lecture and conducted NET/GATE classes in Quantum Mechanics in the State Level preparative Workshop in Chemistry for NET/GATE Aspirants - 2019,	Department of Chemistry, St Joseph's College, Tiruchirappalli	Department of Chemistry, St Joseph's College, Tiruchirappalli on 09.12.2019.
13	Delivered a lecture on Quantum mechanics	the Department of Chemistry, Sarah Tucker College, Tirunelveli	the Department of Chemistry, Sarah Tucker College, Tirunelveli on 21.01.2020.
14	Delivered a lecture on "Applications of Group Theory in Chemistry" in the Summer Training Programme in	Academy of Sciences Chennai and Department of Physical Chemistry, Madurai Kamaraj University, Madurai	Academy of Sciences Chennai and Department of Physical Chemistry, Madurai Kamaraj University,

	Chemistry		Madurai on 22.07.2020.
15	Delivered a lecture on Fundamentals of Quantum Mechanics	T ² Physical Science Club, St Xavier's College of Education, Palayamkottai	T ² Physical Science Club, St Xavier's College of Education, Palayamkottai on 02.09.2020.
16	Delivered a lecture on "Group Theory in Chemistry" in the Summer Training Programme	Academy of Sciences Chennai and Department of Physical Chemistry, Madurai Kamaraj University, Madurai	Academy of Sciences Chennai and Department of Physical Chemistry, Madurai Kamaraj University, Madurai on 27.07.2021.
17	Delivered a lecture on "Basic Sciences for IAS examination" in the Civil Service Orientation Camp - 2022	MAX FORUM of St Xavier's College (Autonomous), Palayamkottai	MAX FORUM of St Xavier's College (Autonomous), Palayamkottai from 04 to 08.07.2022.

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date

Seminars/workshops/Courses attended:

1. Participated in the state level inter collegiate seminar on “Quantum chemistry” organized by St. Xavier’s College, Palayamkottai on 06.03.2009.
2. Participated in the “Orientation Programme for Teachers” organized by Internal Quality Assurance Cell at St. Xavier’s College (Autonomous), Palayamkottai on 15&16. 06.2009.
3. Participated in the two day NAAC sponsored National Conference on “ Quality Initiatives for Student Support and Progression” organized by IQAC, St Xavier’s College, Palayamkottai on 04 &05. 12. 2009
4. Participated in the National seminar on “Chemistry for Changing Times” organized by St. Xavier’s College, Palayamkottai on 15.03.2010.
5. Participated in the “Orientation Programme for Teachers” organized by Internal Quality Assurance Cell at St. Xavier’s College (Autonomous), Palayamkottai on 15.06.2010
6. Participated in three days National Workshop on Electroanalytical Techniques organized by Alagappa University, Karaikudi and SINSIL International and CH Instruments, USA on 11 – 13. 10. 2010.
7. Participated in the National conference on “ Newer Horizons in Chemistry” organized by the Department of Chemistry , Sri Parasakthi college for Women, Coutrallam on 6&7. 01. 2011
8. Participated in the Orientation Programme for Research Scholars organized by the Research Advisory Committee, St Joseph’s College, Tiruchirappalli on 18.01.2011.
9. Participated in the National workshop on “ICT enabled Teaching-Learning through Smart Class Room Facility” organized by St Xavier’s College, Palayamkottai on 27.09.2011.
10. Participated in the UGC sponsored National Seminar on “ Innovations in Curriculum Designing under Choice-Based Credit System” organized by IQAC, St Xavier’s College, Palayamkottai on 07.12.2011.
11. Participated in the Two day National Seminar on Human Rights Issues and Challenges for College Teachers organized by St Xavier’s College, Palayamkottai on 09&10.12.2011.
12. Participated in the DST&TNSCST sponsored Research Awareness Programme organized by Entomology Research Unit, St Xavier’s College, Palayamkottai on 09.03.2012.
13. Participated in the Orientation programme for teachers organised by IQAC, St Xavier’s College, Palayamkottai on 15.06.2012.

14. Participated in the UGC sponsored two day Faculty workshop on Competence Building organized by St Xavier's college, Palayamkottai on 15&16.03.2013.
15. Participated in the orientation programme for Teachers on "Innovative Teaching Staratergies for Student – Centered Education" organized by IQAC, St Xavier's College, Palayamkottai on 05.07.2014.
16. Participated in the orientation programme for Teachers on "Classroom Management" organized by IQAC, St Xavier's College, Palayamkottai on 21.08.2014.
17. Participated in the RSC symposium on Recent Trends in Chemical Science, sponsored by Royal Society of Chemistry (UK), South India Section organized by Department of Chemistry, St Xavier's College, Palayamkottai on 12.12.2014.
18. Participated in the NAAC sponsored National seminar on "Innovations in Student-Centered Teaching – Learning Process in 21st Century" organized by IQAC St Xavier's College, Palayamkottai on on 29 & 30.01.2015.
19. Participated in the International Conference on Recent Advances in Materials Research and Its Applications" organized by Department of Chemistry, St Xavier's College, Palayamkottai on 16.12.2015.
20. Participated in the Seminar on 'Psychology of Students" organized by IQAC, St Xavier's College, Palayamkottai on 30.09.2016.
21. Participated in the one day workshop on "Curriculum Development on Nanoscience and Nanotechnology organized by Curriculum Development cell, Madurai Kamaraj University on 07.10.2016.
22. Participated in the two day orientation programme for teachers on "Counselling and Mentoring" organized by IQAC, St Xavier's College, Palayamkottai on 19 & 20. 06.2017.
23. Participated in National Science Teachers Congress as DBT-STAR college delegate during India Internal Science Festival 2018 held at Lucknow on 05-08.10.2018.
24. Participated in the National Seminar on Recent Trends in Biophysical Chemistry organized by Department of Chemistry, St Xavier's College, Palayamkottain on 09.03.2020.
25. Completed a course on "Let's Break the Chain of COVID-19 Infection" conducted by The Mohammed Bin Rashid University of Medicine and Health Sciences, Dubai as a part of the MBRU Community Immunity Ambassador Programme on 08.04.2020.

26. Completed three days online course on “Basic Principles of Spectroscopy” organized by Department of Chemistry, AVS College of Arts & Science, Salem from 17.04.2020 to 19.04.2020.
27. Participated in Two weeks Faculty Development Programme on “Managing Online Classes and Co-creating MOOCs” organized by Ramanujan College, University of Delhi from 20.04.2020 to 06.05.2020.
28. Participated in the online quiz on Chemistry in Everyday life conducted by Department of Chemistry, Vivekananda College, Tiruvedakam, Madurai on 19.05.2020.
29. Participated in the Internal Webinar on Materials for Energy, Environment and Healthcare Applications organized by The Gandhigram Rural Institute on 21&22.05.2020.
30. Participated in the Internal Webinar on Chemistry organized by the Department of Chemistry, The American College, Madurai on 29.05.2020.
31. Participated in the International live Webinar on “Materials and Technology for Sustainable Development” organized by Department of Chemistry, St Joseph’s College (Autonomous), Tiruchirappalli on 28 & 29. 05.2020.
32. Participated in one day International webinar on “Accelerating Education 4.0 using ICT tools – Post Covid Paradigm” organized by IQAC, St Xavier’s College, Palayamkottai on 17.06.2020.
33. Participated in one day National webinar on “Covid- A Hidden War in Open Field” organized by IQAC, St Xavier’s College, Palayamkottai on 29.06.2020.
34. Participated in one day National webinar on “Online Education – Obstacles and Solutions” organized by IQAC, St Xavier’s College, Palayamkottai on 16.07.2020.
35. Participated in one day National webinar on “ICT Tools for Teaching – Learning” organized by IQAC, St Xavier’s College, Palayamkottai on 23.07.2020.
36. Participated in one day National webinar on “Tools for Interactive Content Preparation ” organized by IQAC, St Xavier’s College, Palayamkottai on 24.07.2020.
37. Participated in the e-Lecture workshop on Advances in Chemical Sciences organized by Chemical Research Society of India and Department of Chemistry, St Xavier’s College, Palayamkottai on 19.12.2020.
38. Completed a course on Novel Coronavirus conducted by URS Training Services LLC, Dubai UAE on 08.04.2020.

39. Completed a three days workshop on “Designing and Development of e-Resources for Teaching and Learning” with A grade organized by Rajdhani College, University of Delhi, 22 – 24. 06. 2021.

40. Participated in the programme for teachers organized by IQAC St Xavier’s College, Palayamkottai on 15 and 16 .07.2022.

COUNTRIES VISITED			

EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)

Name: Dr. M. S. Selvakumar