

RAJAH SERFOJI GOVERNMENT COLLEGE (A)

M.Mangalam M.Sc.,M.Phil.,(Ph. D)

Assistant Professor of Chemistry

Rajah Serfoji Govt. College (Autonomous).

Thanjavur – 613005

Mobile : 9095397734



Personal Details :

Date of Birth	-	18-November-1979
Nationality	-	Indian
Address	-	B-28 New Housing Unit, Pudukkottai road.
Mobile	-	9095397734
Email	-	mangalampasu18@gmail.com

Educational Qualifications :

Degree	School / University	Period		Percentage
		From	To	
S.S.L.C.	St.Annes.Girls Hr.Sec. School, Cuddalore	1995	1996	78.2%
HSC	St.Anees Girls Hr. Sec. School, Cuddalore	1997	1998	70%
B.Sc	Madras University	1998	2001	68%
M.sc	Annamalai University	2001	2003	70%

M.Phil	Annamalai University	2003	2004	78%
Ph.D	Bharathiyar University	2013	2021	

Teaching Experience: 15 Years

Post Held	Institute	Period	
		From	To
Asst.Professor	Rajah Serfoji Govt.College, Thanjavur	2010	Till Date
Asst.Professor	Govt.Arts College for Women, Pudukkottai	2008	2010
Lecturer	VRS Engineering College, Villupuram	2007	2008
Lecturer	Arunai Engineering College, Thiruvannamalai.	2004	2007

Orientation Course :1

Course	Institute	Period	
		From	To
Tamilnadu State council for higher education and UGC – Academic Staff College, University of Madras	Ethiraj Womens College, Chennai	13.10.2008	08.11.2008

Refresher Course :03

Course	Institute	Period		Grade
		From	To	

UGC sponsored refresher course in Chemistry	Bharathidasan University Tiruchirappalli	20/11/2012	10/12/2012	A
UGC sponsored refresher course in Chemistry	HRDC Pondicherry University	08/06/2018	28/06/2018	A
Ministry of education Teaching learning centre, Ramanujan College	University of Delhi	05/08/2021	19/08/2021	A+

Research Experience :08

Research Interests:

- i) Organic Synthesis
- ii) Inorganic Synthesis

Research Guidance

Degree	Guided	Ongoing
M.Phil.	-	-
Ph.D	-	-
M.Sc	24	2

Publications : 06

- **M.Mangalam,N.Punitha,K.Vijayalakshmi** “Synthesis Characterisation and Anti Microbial Studies on Metal Complexes derived from the Biologically Active Mannich Base Complexes derived from the Biologically Active Mannich based ligand”.International journal of Nano Corrosion Science and Engineering ISSN Online : 2395-7018 .2(6) (2015) 11-17
- **N.Punitha, M.Mangalam, K.Vijayalakshmi.** “Microwave Promoted Synthesis of Schiff base ligand using Natural Acid Catalist and its Nickel(II) and Copper(II)Complexes” . International Journal of Nano Corrosion Science and Engineering ISSN Online : 2395-70182(6) (2015) 78-84

- **K.Vijayalakshmi , N.Punitha , M.Mangalam** “Green Synthesis of Schiff base and its complex using Natural a Acid Catalyst Under Microwave Condition “ International Journal of Nano Corrosion Science and Engineering ISSN Online : 2395-7018 2(6) (2015) 31-36
- **M.Mangalam, N.Punitha , K.Vijayalakshmi** “Solubility and Dissolution Enhancement of Simvastatin by the Preparation of Nano Particles Solid Dispersion using Natural Polymer” NANO VISION , Volume 5(4-6),139-148, April – June 2015 ISSN Online 2319-7633.
- **M.Mangalam,C.SebastianAntony Selvan , C.Shankar** “Sythesis Steriochemical , Structural and Biological Studies of a Series of N-(2r,4c-diaryl-3,azabicyclo[3.3.1]Nonan –9-ylidene)pyrazine-2-carbohydrazidesJournal of Molecular structure.1129(2017)305-312
- **M.Mangalam , C.Sebastian Antony selvan , C.Shankar** “Synthesis biological evaluation,N-(2r6e-diarylthian-4-ylidene)-1,2,3-triazole -4- carbohydrazide “ Adalya Journal Volume 9,Issue 10,October 2020 ISSN : 1301-2746.

Paper Presented in Seminars, Conferences and Workshops& Symposium: 16

- **Synthesis and spectral characterization of NiS NP & NiS PCChromophores Containing Divalent Nickel and S,P,N,C Donors in the National Conference** on “Fostering intrest in Chemistry among the Students”Organised by Department of Chemistry Periyar Arts College, Cuddalore on 25 & 26 September 2014
- **One Pot Synthesis and Characterization of Symvastatin Sulphate using Microwave radiation in the National Seminar** on “New Opportunities and Challenges in Chemical Research Organised by Department of Chemistry A.V.V.M Sri pushpum College (A), on 29 & 30 December 2014
- **Natural Polymer by Nanotechnic in the National seminar** on “Chemistry and efficacy of natural Products – A demand in greater use of plant based drugs” Organised by Department of Chemistry Bon secours college for Women, Thanjavur on 20&21 February 2015
- **Synthesis and Biological activities of some Mannich base ligand derivatives in the National Conference** on “Current perspectives and challenges in biodiversity and its conservation” Organised by Department of Bio Chemistry Rajah SERFOJI Government College (A),Thanjavur, on 6 & 7 March 2015
- **Solubility and Dissolution enhancement of Symvastatin by the preparation of Nano particles solid Dispersion using natural Polymerin the National Conference** on “Thin

film Science and Nano Technology “ Organised by Department of Physics, Rajah Serfoji Government College (A), Thanjavur, on 2 & 3 March 2015

- **Synthesis Characterization and Anti Microbial Studies on metal Complexes derived from the Biologically active Mannich base ligand, 7-Dicyclohexylaminobenzyl-8-Hydroxy quinoline in the International Conference** on “Chemical and environmental research” Organised by Jamal Mohammed College (A) , Tiruchirapalli , on 17- December 2015
- **Synthesis , Stereo Chemical, Structural and Biological studies of some N-(2r,4c- diaryl - 3-asabicyclo[3.3.1] Nonan – 9 -ylidene) pyrazine -2- carbohydrazide in the National Seminar** on “Innovative Researches in Chemical Science “Organised by Department of Chemistry Khadir Mohideen College , Adirampattinam on 25- September 2016
- **A Comparative in vitro evaluation of Anti Microbial activity of a Novel Mannich base ligand in the the National Seminar** on “New trends in Chemistry” Organised by Department of Chemistry , Annamalai University , Chidambaram on 21 & 22 October 2016.
- **Study of Heavy metals in surface Water polluted by anthropogenic activities in the State Level seminar** on “Emerging Trends in Chemistry” Organized by Department of Chemistry , A.V.V.M Sri pushpam college , Poondi on 29 August 2017
- **Design , Synthesis of substituted piperidine and piperazine derivatives as DNA inhibitors of Myco bacterium tuberculosis in the International Conference on** “Recent Trends in Synthetic Methods and Material Chemistry” Organised by Department of Chemistry Annamalai University on 2 & 3 February 2018
- **Synthesis, Spectral , biological evaluation of some new 3T- Alkyl -2r,6c-diaryl piperidin -4- One Hydrazones as Potential Antimicrobial And Anti tubercular Agents in the International seminar on** “Novel Avenues in Environmental Issues and Protection” Organised by Marudupandiyar College , Thanjavur on 15 & 16 February 2018
- **Mitigation of corrosion rate of mild steel using Synthesis inhibitor Mannich based derivatives in the international Seminar** on “Mineral based system in Environmental engineering” Organised by Department of Chemistry Bon secours college for women , Thanjavur on 18 August 2018
- **The corrosion inhibitor of Mild steel in acid Medium in the presence of Green inhibitors in the National Seminar** on “The New Vistas in Chemical sciences “ Organised by Department of Chemistry Government college for women , Kumbakonam, on 4&5 July 2019
- **Design and Synthesis of piperazine –piperidone H37Rv inhibitors with improved pharmacokinetic profiles in the International Conference on** “ Frontier areas in

Chemical technologies” Organised by Department of Industrial Chemistry ,Alagappaa University , Karaikudi on 25&26 July 2019

- **Design , Synthesis , Docking Molecular stimulation studies of piperidone – Thiazolidinone hybrid molecules and their tubercular properties in the National Seminar** Organised by Department of Chemistry Government Arts College , Dharamapuri , on 30-August 2019
- **The study , corrosion Mild steel by using green inhibitors in the National conference** on “Recent Trends in Material science” Organized by Department of Chemistry and Physics Thiru.Vi.Ka Government arts college ,Thiruvarur on 14 February 2020

Seminars /Conferences /Workshops/FDP/Symposium Attended : 25

- ❖ Two days “**Faculty Development Programme**” at helicks training institute at yercaud on 11&12 August 2007
- ❖ workshop on quality enhancement and sustenance in higher education through accreditation at Government arts college for women (A) pudukkottai on 19 March 2009
- ❖ Workshop on future prospects in chemistry at Government arts college for women pudukkottai on 28 January 2010
- ❖ Workshop on Micro scale experiment in Chemistry at A.V.V.M Shri pushpum college (A) on 11 December 2011
- ❖ Intercollegiate seminar on recent research perspectives in chemistry and Bio chemistry at A.V.V.M Shri pushpum college on 16 December 2011
- ❖ National seminar on recent trends in polymer and green Chemistry at Rajah serfoji Government College (A) on 2&3 February 2012
- ❖ National level workshop on modern trends in chemistry at Kunthavai Naacchiyaar Government arts college for women 19 December 2014
- ❖ National Seminar on current trends in application oriented chemistry at Rajah Serfoji Government College (A) on 36 October 2017
- ❖ One day online faculty development program on funding schemes and patenting scientific innovations at Government arts college Thiruchirapalli IQAC and Department of chemistry on 13 June 2020
- ❖ Webinar on Electronic spectroscopy and pericyclic reactions at Seethalakshmi Ramaswamy college Department of Chemistry on 17 & 18 June 2020

- ❖ International virtual conference on novel biotechnological approaches to combat emerging Diseases with special focus on SARS associated Corona virus Therapeutics at Presidency college ,Department of plant biology on 26 June 2020
- ❖ One Day seminar on curriculum development and design at Rajah Serfoji Government College , IQAC on at 16 December 2020
- ❖ National Webinar on Yoga at Rajah Serfoji Government college (A) Department of Zoology on 1,2 and 3 July 2020
- ❖ National Webinar on women safety at Tamilnadu Physical education and sports University Department of exercise physiology and nutrition on 29 May 2021
- ❖ One day international webinar on challenges and opportunities in advanced materials at government arts college Thiruchirapalli Department of chemistry and IQAC on 14 July 2021
- ❖ One day National Webinar on lockdown positive perspectives and challenges ahead at Government Arts college Thiruchirapalli Department of chemistry on 2 July 2021
- ❖ Two days international virtual symposium on women empowerment at Bharathi Women's college (A) Chennai centre for women Empowerment in association with Tamil nadu. State council for science and technology on 3&4 July 2021
- ❖ International webinar on Innovative research in Chemical sciences at Government arts college Thiruchirapalli Department of chemistry on 10 July 2021
- ❖ National webinar on NMR spectral applications of organic compounds at Government arts college Thiruchirapalli Department of chemistry on 29 July 2021
- ❖ UGC Sponsored webinar on Yoga for wellness at HRDC Bharathidasan university Thiruchirapalli on 6 August 2021
- ❖ UGC Sponsored webinar on Climate Change at HRDC Bharathidasan University Thiruchirapalli on 11 August
- ❖ UGC Sponsored webinar on professional ethics for teachers at HRDC Bharathidasan university Thiruchirapalli on 16 August 2021
- ❖ Webinar on How to write Quality Research paper at Sigma Institute of engineering , Vadodara , Gujarat on 18 September 2021
- ❖ 10 Days webinar series on excellence of women in the field of science and technology at Sathyabama Institute of science and technology ,Department of physics and centre for nano science and Nano technology on 13 to 23 September 2021
- ❖ Webinar on patent filing process and challenges at Jamal Mohammed college Thiruchirapalli Intellectual property right cell on 30 September

Membership in Professional Bodies :

Life Member: Tamilnadu Science Forum (A network organization of NCSTC, DST, Govt. of India).

Academic Bodies (such as Board of Studies etc...

- i. Member in **Sports committee** in Rajah Serfoji Government college Thanjavur.
- ii. Member in **board of studies** in Rajah Serfoji Government College Thanjavur.
- iii. Member in **Income Tax Verification Committee** in Rajah Serfoji Government College Thanjavur.
- iv. Member in **Discipline Committee** in Rajah Serfoji Government College Thanjavur.
- v. **Women's Cell Coordinator** in Rajah Serfoji Government College Thanjavur.

Others:

- Cleared **Departmental Examination –(EO)** in the Year of 2010 (Reg.no
- Acted as an **Judge** in intra school competition at J.R.K Nursery and Primary School, Thanjavur 2014-2018
- Acted as an **Judge** in Inter School Competition - English Elocution at Yagappa International School – Thanjavur 2017&2018 conducted by YMCA
- Acted as a **Panel Member** in the National seminar on Chemistry and efficacy of natural products demand in greater use of plant based drugs held on 20&21 February -2015 , Organised by Department of chemistry, Bon secours college for women Thanjavur
- Acted as Organizing secretary for three days National Level E – Quiz “Solid State Chemistry” between 26.06.2020-28.06.2020
- Acted as Organizing Secretary for three days National level E – Quiz on “ Women Empowerment” between 08.03.2021-10.03.2021
- Acted as a Organizing Secretary for five days National Level E – Quiz on “World Ozone day Awareness Quiz” between 16.09.2021-20.09.2021
- Awareness speech was given to the UG first year online student Induction programme conducted by Rajah Serfoji Government College between 16/09/2021-18/09/2021
- Staff In charge of the Metrics for criteria 7 under measurements initiated by the institution for the promotion of gender equity during the last five years (IQAC)