Dr. T. S. MANIKANDAN, M. Sc., Ph. D.,

1/152P, Sourashtra 1st colony,

Meenakshi Nagar,

Sakkimangalam (PO),

Madurai – 625 201, Tamilnadu, India.

E-mail: drmanitssoucol@gmail.com

Mobile: +91-90959 67511 and +91-9360669979

Vidwan-ID: 460498

Google Scholar: https://scholar.google.co.in/citations?user=-500sScAAAAJ&hl=en



OBJECTIVES

As an accomplished educator deeply committed to academic excellence, my objective is to contribute comprehensive knowledge in chemistry to an Assistant Professor position. I aim to inspire intellectual curiosity, facilitate critical thinking, and lead impactful research initiatives while fostering an inclusive and engaging learning environment.

ACADEMIC EXPERIENCE IN INSTITUTIONS

Name of Institution	Designation	Teaching Experience			
		Programme	Regular/	From	То
			Self-finance		
Sourashtra College, Madurai	Assistant Professor	UG	Regular	04-11-2022	Till date
Sourashtra College, Madurai	Assistant Professor	UG	Self-Finance	22-09-2021	03-11-2022

POST-DOCTORAL RESEARCH EXPERIENCE

Position	Institute	Mentor	Title	Period
POST-	INDIAN	DR. DIPANKER	A GREEN AND	2019-2021
DOCTORAL	INSTITUTE OF	SRIMANI,	SUSTAINABLE	
FELLOW	TECHNOLOGY-	ASSOCOATE	APPROACH FOR	
	GUWAHATI,	PROFESSOR,	THE SYNTHESIS	
	ASSAM	DEPARTMENT	OF	
		OF CHEMISTRY,	HETEROCYCLI	
		INDIAN	COMPOUNDS	
		INSTITUTE OF	USING	
		TECHNOLOGY-	TRANSITION	
		GUWAHATI,	METAL	
		ASSAM	CATALYSTS	

ACADEMIC PROFILE

Position	Institute	Mentor	Title	Period
DOCTORAL	Bharathidasan	Dr. R. Ramesh	Ruthenium(II) and	2014-2019
FELLOW IN	University,	Professor and	Palladium(II)	
CHEMISTRY	School of	Coordinator	complexes	
	Chemistry	Centre for	Featuring	
	-	Organometallic	Aroylhydrazone	
		Chemistry	and Thiourea	
		School of	Ligands:	
		Chemistry	Synthesis,	
		Bharathidasan	Structural	
		University,	Characterization	
		Tiruchirappalli	and Catalytic	
			Application	

Course : Master of Science in Chemistry (JUNE 2011 - APRIL 2013)

University : Madurai Kamaraj University, Tamil Nadu, India

Institute : Thiagarajar College, Madurai.

Percentage : **76.54 %**

Grade : **FIRST CLASS WITH DISTINCTION**

Dissertation : **Synthesis of metal Complexes with pyridine Carboxamide ligands**

Course : **Bachelor of Science in Chemistry (JUNE 2008 - APRIL 2011)**

University : Madurai Kamaraj University, Tamil Nadu

Institute : Thiagarajar College, Madurai.

Percentage : **76.40** %

Grade : **GOLD MEDAL, FIRST CLASS WITH DISTINCTION**

Dissertation: Assessment and water quality of Karumathur in Madurai District

Course : **Higher Secondary (JUNE 2006 – MARCH 2008)**Institution : Thiagarajar Model Hr. Sec. School, Madurai, Tamilnadu,

Percentage : **81.75** %

Grade : **FIRST CLASS WITHDISTINCTION**

Course : **S.S.L.C (JUNE 2005-MARCH 2006)**

Institution : Sri Visalakshi Kalasalai Hr. Sec. School, Sivagangai, Tamilnadu

Percentage : **87.00** %

Grade : FIRST CLASS WITH DISTINCTION, SCHOOL FIRST RANK

ACADEMIC DISTINCTIONS AND AWARDS

S. No	Name of the award/Distinctions Institution/Agency		Year/Period
1	University Research Fellow (URF)	Centre for Organometallic Chemistry, School of Chemistry, Bharathidasan University, Tiruchirappalli	Nov.2017 to Dec.2018
2	Junior Research Fellow (DST-SERB-JRF)	Centre for Organometallic Chemistry, School of Chemistry, Bharathidasan University, Tiruchirappalli	Dec. 2013 to July 2016
3	Beststudentaward (M. Sc Chemistry)	Thiagarajar College, Madurai.	2012 to 2013
4	Summer Research Fellow (INSA-NASI-IISc)	Indian Institute of science Education and Research (IISER), Mohali.	May 2012 to July 2012
5	Gold Medalist (B. Sc Chemistry)	Thiagarajar College, Madurai.	2011
6	Beststudentaward (B. Sc Chemistry)	Thiagarajar College, Madurai.	2011

RESEARCH GUIDANCE

Guided FOUR M. Sc Students

ACADEMIC GUIDANCE

➤ **B.Sc. Chemistry** - Inorganic Chemistry, Organic Chemistry, Physical Chemistry,
Chemistry of Biomolecules, Chemistry of Service mankind,
Pharmaceutical chemistry and Practicals

- **B. Sc. Physics** Allied Chemistry
- **B. Sc. Mathematics** Chemistry for human welfare I
- **B. Sc. Microbiology** Allied Chemistry for Life Sciences I and II and Practicals
- ➤ M. Sc. Inorganic Chemistry Practical for First and Second Semester
- **B. Tech. Organic Chemistry** for first semester

PUBLICATIONS

Number of papers published in international journals: 5

h-index:	i10 index:	Orchid ID:	Researcher ID:
4	4	0000-0002-7251-9691	M-4693-2017

Citations: 64

Title of the Paper	Name of the Publishing Journal	National/ International	Year	Page No	Impact factor
Synthesis and catalytic evaluation of ruthenium(II) benzhydrazone complex in transfer hydrogenation of ketones	Tetrahedron Letters	International	2016	3764- 3769.	2.415
Synthesis and characterisation of cycloruthenated benzhydrazone complexes: Catalytic application to selective oxidative cleavage of olefins to aldehydes	RSC Advances	International	2016	97107- 97115	4.036
Direct aerobic strategy for synthesis of imines via alcohols and amines promoted by ruthenium(II) $(\eta^6-p$ -cymene) complexes	Chemistry Select	International	2018	1561- 1568	2.307
The Tandem C-H/N-HActivation of N-methyl Arylamide Catalysed by Dinuclear Pd(II) Benzhydrazone Complex: A Concise Access to Phenanthridinone	Organometallics	International	2019	319- 328	3.837
Efficient construction of C-C bonds from aryl halides/aryl esters with arylboronic acids catalysed by palladium(II) thiourea complexes	Applied Organometallic Chemistry	International	2019	5131- 5142	4.072

RESEARCH INTEREST

- Design new ligands with desired features/functionalities.
- > Synthesis of novel air and moisture stable organometallic catalysts for the activation, functionalization and synthetically challenging reactions.
- ➤ Development of new green and sustainable synthetic approaches for the synthesis of pharmaceutically important targets with the imperatives of cost savings, time reduction, less amount of waste, and responsible sourcing.
- ➤ Investigation on catalytic efficiency of organometallic catalysts for industrial important reactions.
- Understand the role of stereo selective reactions in catalysis.
- Propose mechanistic pathways, rate of the reaction and dynamics for metal mediated organic synthesis and catalytic reaction.

INSTRUMENTS HANDLING

- ✓ Gas Chromatography and Mass spectrometer (GC-MS)
- ✓ FT-NMR
- ✓ FT-IR spectrometer
- ✓ UV-vis Spectroscopy
- ✓ Cyclic voltammetry

ADDITIONAL RESPONSIBILITIES

- > Organizing Committee Member in A ONE DAY INTERNATIONAL SEMINAR on "Recent Trends in Frontier Areas of Materials and Macromolecules" on 24-03-2023
- > Organizing Committee Member in POOJA FEST 2023, Sourashtra College, Madurai.
- Member in Finance and Infrastructure of Research and Development Cell- Sourashtra College, Madurai, 2023-2024
- ➤ Member in Research, Innovations and Extension of IQAC, Sourashtra College, Madurai 2023-2024
- > Member in Website Maintenance Team, Sourashtra College, Madurai 2023-2024
- Member in UGC Online Course Swayam, Sourashtra College, Madurai 2023-2024

Conferences/ Seminars/ Workshops (2010- Till date)

S.	TITLE	PLACE	DATE
No			
1	Webinar on 'Latest Research on Catalytic	EduCare Taiwan with	3 rd July
	& Structural study of Organometallic	Kaohsiung Medial	2022
	Compounds and Nanomaterials'.	University, Taiwan	
2	One week International workshop on "	Periyar Maniammai	7 th to 11 th
	Application of Nanoscience in	Institute of Science	March 2022
	Multidisciplinary Fields (IWANS – 2022)	and Technology,	
		Tanjavur.	
3	National one week Faculty Development	Central University of	21st to 25th
	Programme on "Carbon Capture and	Tamilnadu,	February 2022
	Storage"	Thiruvarur	
4	Faculty Development Programme on "E-	Sourashtra	10 th February
	Content Development"	College	2022
5	International conference on "Sustainable Energy	Bharathidasan	27 and 28th
	Technologies, i-SET-2018"	University, Trichy	
6	The 10th Mid-Year Chemical Research	Departmentof	23-25 July,
	Society of India (CRSI)	Chemistry, NIT-	2015.
7	Making I Coming on "Form of the Form time in	Tiruchirappalli	0
7	National Seminar on "Expanding Frontiers in	Arul Anandar College, Karumathur,	14 & 15
	Chemistry"-A paper presented entitled	Madurai, Tamilnadu,	Feb2013.
	synthesis and characterization pyridine of	India	
8	metal complexes with Carboxamide ligands National Science Academics lecture	Madurai Kamaraj	22 22 3
0	Workshop on Bioinorganic Chemistry andits	University, Madurai.	28 [–] 30 Sep 2013
	Applications	omversity, Madaran	2013
9	"National Conference on Emerging Trendsin	Bishop Heber	11 th Jan 2012
	Chemistry"-DST-FIST sponsered	College,	,,
		Tiruchirappalli.	_
10	State Level Students Seminar - A paper presented	Thiagarajar College,	25 th Sep
	titled "Greener Reactions"	Madurai.	2012
11	State Level Students Seminar - A paper presented	Thiagarajar College,	20 th Feb
	titled "Safety Measures of Nuclear	Madurai	2012
	Powerplant". "Hands on Training on Chromatography" under	Thiagarajar College,	oth 140th
12	STAR COLLEGE scheme	Madurai	9 th and 10 th Jan 2012
12			-
12	State Level Students Seminar -A paper presented titled "Applications of intercalation	Thiagarajar College, Madurai	21 st Sep
13	Compounds"	iriadul ai	2011
	r		

	State Level Students Seminar -A paper	Thiagarajar College,	24 th Feb2011
14	presented titled "Chemistry of Cosmetics"	Madurai	
	UGC sponsored State Level Seminar on	Arul Anandar	15th Feb
15	ExpandingFrontiersinChemistry-Apaper	College,	2011
	presented titled "On Greener Pesticides"	Madurai.	
	State Level Workshop on "Recent	M. S. S. Wakf Board	10th March
16	Advances in NanoSciences"	College,	2011
		Madurai	
	National Seminar on Modern Trends in	Vivekananda	25th Jan 2011
17	Chemistry, "Green Chemistry And Catalysis	College,	
	For Sustainability"	Madurai	
	State Level Students Seminar - Apaper	Thiagarajar College,	29th Sep
18	presented entitled "Alternatives To	Madurai	2010
	Plastics"		
19	FIST Sponsored one day workshop on "The	VHNSN College,	21st July
	Analysis of Oil and Fats"	Virudhunagar	2010
	National Seminar on Renewable Energy	Yadava College,	4th & 5th
20	Resources – A paper presented entitled	Madurai.	March 2010
	"Renewable Energy Resources"		
	Workshop on Removal Dyes From Textile	ANJA College,	23rd July
21	Effluent Using Low Cost Adsorbents"	Sivakasi.	2010
	The Special Two day Workshop Programme	National Centre for	23rd and
22	on Spectroscopic methods	Catalysis	24th Oct
		Research, IIT-	2010
		Madras	

GUEST LECTURE / INVITED LECTURE

Delivered a Guest Lecture on the topic "Liquid state" at E.M.G.Yadava Women's College, Madurai on 20-02-2023.

COMPUTER KNOWLEDGE

Scientific Packages : Origin Lab, Chem Bio-Office, Mest Re novo

 $Visualization\ Packages: Mercury, Mest ReNova\ and\ ORTEP$

E-mail: manitshp01@gmail.com Mobile: +91-9095967511

PERSONAL INFORMATIONS

Father's Name : Mr. T. R. Sambamoorthy

Mother's Name : Mrs. T. S. Viji

Gender : Male

Date of Birth : 30th July 1991

Marital Status : Married

Nationality : Indian

Languages Known : Tamil, English and Sourashtra

Employee Id : 20021209484

Permanent Address : 1/152, Sourashtra 1st Colony, Meenakshi Nagar,

Sakkimangalam (PO), Madurai (Dt.) Pin Code:

625 201, Tamil Nadu, INDIA

Mobile No : +91-9095967511 and 9360669979

DECLARATION

I hereby solemnly affirm that all the above details provided are true to the best of my knowledge. I shall carry myself in a manner that lends dignity to the organization and worthy enough of the person.

Yours sincerely,

(T. S. Manikandan)

Place:

Date