



ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE
(Reaccredited With 'A' Grade by NAAC)
(Run by Arulmigu Dhandayuthapani Swamy Thirukkoil, H.R & C.E (Admin) Dept. Government of Tamilnadu)
(A Government Aided College – Affiliated to Madurai Kamaraj University, Madurai)
DINDIGUL ROAD, PALANI - 624601

DEPARTMENT: CHEMISTRY		
Name	DR.S.MANIMEGALAI	
Designation	Assistant Professor	
Qualification	M.Sc., M.Phil., Ph.D.,	
Email id	mani_megalai22@yahoo.in	
Alternative email id	-	
Experience	17 years	
Date of joining	2.2.2009	
No. Of Journal Publication (International)	4	
No. Of Journal Publication (National)	9	
No. Of Conference Attended (International)	7	
No. Of Conference Attended (National)	14	

A. Academic Qualifications (Undergraduate Onwards)

Level	Degree	Specialization	University	Year of Completion
UG	B.Sc	CHEMISTRY	MADURAI KAMARAJ	1998
PG	M.Sc	CHEMISTRY	MADURAI KAMARAJ	2000
M.Phil.,	M.Phil	CHEMISTRY	AVINASHILINGAM UNIVERSITY	2002
Ph.D.,	Ph.D.,	CHEMISTRY	MOTHER TERASA UNIVERSITY	2015

B. Theory and Practical papers Teaching

- Physical Chemistry
- Applied Chemistry
- Industrial and Polymer Chemistry
- Environmental Chemistry

C. Area of Interest in Research activities

- Phyto Chemistry
- Corrosion Chemistry
- Nano Chemistry
- Environmental Chemistry
- Materials Science

D. Academic Credentials (FROM 2009 ONWARDS TO TILL DATE)

1. As a Mentor incharge from 2/2/2009 to till date.
2. As an incharge in PG Department Library from Dec 2013 to April 2016.

3. UG & PG Association Co-Ordinator from 2016-2017.
4. Done for Question Paper settings, External examiner for Practicals and Paper evaluation & Viva-voce etc in various Universities and Autonomous colleges to till date.
5. As a Co-ordinator for Women's Development cell in 2017-2018
6. As a Co-ordinator for Personality Development Programme in 2017-2018.
7. As an Incharge for Library Committee in 2018-2019.
8. Internal Tests Co-Ordinator in 2018-2019.

E. UGC Recognised Refresher Courses/ Orientation Program Attended:

Orientation / Refresher Course	Name of the funding Agency	Place and Duration
Orientation Programme	UGC	UGC–Academic Staff college Bharathidasan University, Tiruchirappalli, Tamilnadu. From 11.11.2011 to 8.12.2011.
Refresher Course	UGC	UGC–Academic Staff college, Bharathiar University, Coimbatore, Tamilnadu. From 8.5.2012 to 28.5.2012.
Refresher Course	UGC	UGC-HRDC, Pondicherry University, Pondicherry. From: 8.2.2018 to 28.2.18.
Refresher Course	UGC	UGC-HRDC, Bharathiar University, Coimbatore, Tamilnadu. From 20.6.2019 to 3.7.2019.

F. Research & Academic Contributions:

1. Published Research Papers in Journals:

No. of Research Papers Published in Journals: 15

No. of Articles Submitted : 2 (SCOPUS BASED Journals)

(^{*}All Research Articles view at Google Scholar citation)

LISTS OF RESEARCH PUBLICATIONS

1. **S. Manimegalai,** " Analysis Of Groundwater Quality Of Usilampatti Region in Tamilnadu" *International Research Journal of Engineering and Technology*, 6 (7) (2019) 4-8 .

(Impact Factor value: 7.211 , UGC APPROVED JOURNAL NUMBER – 45170)

2. **S. Manimegalai,** " Pantoprazole: Inhibition Of Mild Steel Corrosion In Im H₂SO₄ Solution By Weightloss Method", *International Research Journal of Engineering and Technology*, 6 (7) (2019) 2980-2982.

(Impact Factor value: 7.211 , UGC APPROVED JOURNAL NUMBER – 45170)

3.S.Manimegalai, "Characterisation of Methanolic Extract Of Roots of *Xylia xylocarpa*" *International Journal of Research Culture Society*,1 (10) (2017) 163-166.
(Impact Factor : 3.449)UGC APPROVED JOURNAL NUMBER – 64291)

4. S.Manimegalai, "Electrochemical studies of Mild steel corrosion inhibition in Aqueous solution by *Sargassum swartzii* Extract" *International Journal for Innovative Research in Multidisciplinary Field*, 4 (7) (2017) 213-222.
(Impact Factor : 5.60, UGC APPROVED JOURNAL NUMBER – 47793)

5. S.Manimegalai and P.Manjula, "Biocidal Efficiency of Surfactants on *Sargassum swartzii* (SS) -Zn²⁺ System for Microbiological Corrosion Prevention, *International Journal of Pharmacy and Pharmaceutical Research*, 4 (1) (2015) 203-211. **(Impact Factor : 2.185)**

6. S.Manimegalai and P.Manjula "Thermodynamic and Adsorption studies for corrosion Inhibition of Mild steel in Aqueous Media by *Sargasam swartzii* (Brown algae), *Journal of Materials and Environmental Science*, 6 (6) (2015) 1629-1637 .**(Impact Factor 2019: 1.90)**

7. Nirmala Baby, P.Manjula, S.Manimegalai "Azole Drug: A Novel Inhibitor for Corrosion", *Research Journal of Chemical Sciences*, 5(2) (2015) 11-16. **Impact Factor: 0.8**
INDEXING: DOAJ, Chemical Abstracts, Google Scholar

8. S.Manimegalai and P.Ajitha, " Study of trace element in ground water sources of Palani areas,Tamilnadu", *Indian Journal of Environmental Protection*,34 (5) (2014) 409-414.**(Impact Factor: 0.9 UGC APPROVAL NO:20768)**

9. S.Manimegalai and P.Manjula "Phytochemical Screening of *Sargassum swartzii* (Brown algae) , *Journal of Chemical, Biological and Physical sciences*, 4(3) (2014) 3274-3278. **(Impact Factor : 1.082)**

10. S.Manimegalai, R.Ramesh and P.Manjula " Inhibition Of Corrosion Mild Steel In Acid Media By Trazodone Drug" , *Research Desk*, 2(4) (2013) 326-333. **(Impact Factor: 0.16).**

11. S.Manimegalai and Rakkimuthu, "Phytochemical screening of stem of *Couroupita guianensis* ,*International Journal of Pharmaceutical Sciences and Research*, 3(11) (2012) 4434-4437 . **(Impact Factor: 1.81 UGC APPROVAL NO:23330)**

12.S.Manimegalai, P. Manjula, K.N. Manonmani, N. Kavitha, N. Baby " Metronidazole: A Corrosion Inhibitor for Mild Steel in Aqueous Environment", *Portugaliae Electrochimica Acta*, 30(6) (2012) 395-403. **(Impact Factor: ISSN 1647-1571)**

13.S.Manimegalai "Physico-chemical studies on ground water in and around Bodinayakanur town, Theni District, Tamilnadu" *Indian Journal of Environmental Protection*,32 (5) (2012) 409-414. **(Impact Factor: 1.2 UGC APPROVAL NO:20768)**

14. S.Manimegalai, S.Saranyameena and P.Palaniammal "Characterization of effluent of match works and underground water in Mamsapuram Village, Virudhunagar District, Tamil Nadu." *Indian Journal of Environmental Protection*, 27 (6) (2007) 443- 446
(Impact Factor:1.2 UGC APPROVAL NO:20768)

15. S.Manimegalai and L.Muthu lakshmi “Study of Fluoride Content in Ground Water, Survey of Dental Fluorosis in Virudhunagar District” , *Indian Journal of Environmental Protection*, 26 (6) (2006) 546 – 549. **(Impact Factor: 1.2 UGC APPROVAL NO: 20768)**

Submitted Research Articles:2 (SCOPUS BASED Journals)

1. **S. Manimegalai.”** Phytochemical Analysis and Evaluation of Acidic Extract of Leaves of *Xylia Xylocarpa* “.Submitted to **International Journal of Pharmaceutical Sciences and Research**. Article ID:(IJPSR/RA-13043/08-19)
(Impact Factor: 1.81 UGC APPROVAL NO:23330)

2. K.Kaleel Rahman and **S. Manimegalai,”**Assessment Of Ground Water Quality Of Palladam Region In Tirupur District, Tamilnadu, India. Submitted to **Indian Journal of Environmental Protection**. **(Impact Factor:1UGC APPROVAL NO:20768)** .

2. Papers Presented in International/National Conferences/Seminars:

S.NO	Title of Conference	Sponsoring Agency & Organiser	International/ National/ State/Regional	Year, Month & Date	Title of Paper Presented
1.	Seminar on —Emerging Trends in Chemical Sciences-2k19” (ETCS – 2k19)	TNSCST G.T.N Arts College (Autonomous) Dindigul – 624 005 .	State Level	Oct 18, 2019	A review of Pharmaceutical and Pharmacological properties of Guar gum
2.	Conference On Impact Of Innovations In Science And Technology For Societal Development (IISTSD– 2019))	SERB..... Kongunadu Arts & Science College, . Coimbatore	International	. Sep 19-21, 2019	Synergistic Effect of Sodium Gluconate (SG) on the Inhibition Efficiency of <i>Sargassum swartzii</i> - Zn ²⁺ System on Mild Steel in Aqueous Environment
3.	Conference on New Scientific Creations In Engineering And Technology ICNSCET-19	Department of Chemistry, Nadar Saraswathi College Of Engineering and Technology,Theni.	International	2019 , Mar 22 nd	Assessment of Ground Water Quality of Dindigul Region in Tamilnadu.
4.	Seminar on The Widening Horizons Of Chemistry-III	Department of Chemistry, APA College for Women,Palani	National	2015, Mar 5 th	Therapeutic potential of <i>Sargassum swartzii</i> (BROWN ALGAE).
5.	Conference on Advanced In Numerical Analysis And Applied Mathematics	APA College for Women, Palani.	International	2013 , Aug 24 th	Novel Applications of Mathematical Chemistry
	Conference on Surface Engineering For	UGC & CSIR Rajalakshmi College of			Surface characterization of

6.	Research And Industrial Applications.	Engineering, Chennai	International	2013, Aug 7-9,	low Carbon steel inhibited from corrosion by Fluconazole-Zn ²⁺ system in neutral aqueous environment.
7.	Seminar on The Widening Horizons Of Chemistry	Department of Chemistry, APA College for Women, Palani	National	2013, Feb 11 th	Resources of Marine Chemicals in India.
8.	Science For Shaping The Future In India	Regional Science Congress, Kongunadu Arts & Science College, Coimbatore.	National	2012, Dec-15& 16 th	Corrosion Inhibition on low Carbon Steel by Fluconazole - Zn ²⁺ - System in Neutral Aqueous Environment.
9	Seminar on Emerging Trends in Chemistry-4	UGC, CSIR, DST & TNSCST Department of Chemistry, CPA College, Bodinayakanur.	National	2012, Oct 4 th & 5 th	Monitoring Of Heavy Metal Contamination Of Ground Water In Palani Taluk.
10.	Seminar on Recent Advances In Textile and Electrochemical Sciences-2012	DST-FIST, DST-PURSE & UGC-SAP Department of Chemistry, Alagappa University Karaikudi.	National	2012, Mar 22 nd & 23 rd	Nano level inhibitor film formation on the surface Of mild steel DTPMP-SPT-Zn ²⁺ system in aqueous environment.
11.	Seminar on Emerging Trends in Chemistry-3	UGC, CSIR & DST Department of Chemistry, CPA College, Bodinayakanur.	National	2010, Sep. 23 rd & 24 th	Physico-Chemical Studies On Ground Water In And Around Bodinayakanur Town, Theni District, Tamilnadu
12.	Conference on Emerging Trends in life science	UGC Navarasam Arts and science college for women, Arachalur, Erode Dt.	International	2011, Aug 18 th	Green Corrosion Inhibitors.
13.	Conference on Global competitiveness in Biology, Chemistry and Environment...for a better tomorrow	UGC & CSIR Rev. Jacob memorial Christian College Ambilikkai, Oddanchatram	International	2011, Feb. 3 rd	A Study on the Levels Of Fluoride In Ground Water And Prevalence Of Dental Fluorosis In Certain Areas Of Virudhunagar District.

3. Full Papers Published In Conference Proceedings:

S.NO	National/ International & Name of the programme.	Sponsoring Agency & Organiser	Month & Date	ISBN/ISSN	TITLE
1.	National Conference Innovations in Chemical and Life Sciences Research PROTEOFEST-2020	Rev. Jacob. Memoria I Christian College, Oddanchatram	Feb 7 th , 2020	ISBN 978-93-5361-398	Corrosion studies using otentiodynamic and EIS techniques of Mild steel in Pantoprazole drug

2.	International Conference Recent Trends in Green Chemistry and Materials Science –RTGCMS-2020	DST-SERB Mohammed Sathak Engineering College, Kilakarai, Ramanathapuram District	Jan 23 rd & 24 th 2020	ISBN 978-93-5396-914-1	Electrochemical Studies of Sodium Gluconate (SG) on the Inhibition Efficiency of <i>Sargassum swartzii</i> (Brown algae) - Zn ²⁺ System on Mild Steel in Aqueous Environment
3.	National Two days National Conference on Chemistry of Materials-18.	UGC Sadakathulla Appa College, Tirunelveli.	Oct.10 & 11, 2018.	ISBN 978-81-938054-1-1	Electrochemical studies of Sodium Gluconate (SG) on the Inhibition Efficiency of <i>Sargassum swartzii</i> (Brown algae) - Zn ²⁺ System on Mild Steel in aqueous Environment
4.	National Seminar on Recent Trends in Chemistry	UGC Jayaraj AnnaPackiam College for Women, Periyakulam	Jan 8 & 9 th 2015	ISBN 9788192303857	Quantitative Phytochemical analysis and Anti microbial activity of <i>Sargassum swartzii</i>
5.	National One day National level Seminar on Recent Advances in Chemistry	UGC APA College of Arts and Culture, Palani.	Aug 11 th 2014	ISBN 938065793-3	Synergistic Effect of <i>Sargassum swartzii</i> -Zn ²⁺ system in Controlling Corrosion of mild steel in Aqueous Medium.
6.	National Conference on Global Opportunities for Recent Developments in Science and Technology.	CSIR Rev.Jacob. Memorial Christian College, Oddanchatram	Feb 8 th 2014.	ISBN 9789382323	Inhibition of mild steel corrosion in 1M HCl by Acetazolamide Drug
7.	National Conference on Frontiers in Spectroscopy	UGC Government Arts College, Tiruvannamalai	Apr 2,3 rd - 2012	ISBN 978-93-80624-60-0	Applications of FT-IR Spectroscopy in Corrosion Monitoring Techniques.

4. Participated in Conferences/Seminars/Workshops Attended:

S. NO	Title of Seminar/ Workshop	Sponsoring Agency & Organiser	International/ National/ State/Regional	Year, Month & Date
1.	Seminar cum Workshop on Biological Inputs for Agriculture and EcoEnterprises	Department of Botany, APA College of Arts and Culture, Palani.	State	2020, Feb 24 th

2.	Seminar on Mathematical Modeling and Applications of Differential Equations	Department of Maths, APA College of Arts and Culture, Palani.	State	2020, Feb 4 th
3.	கருத்தரங்கு படைப்பாளிகள் பார்வையில் அண்மை கால தமிழ் புனைவுகள்	Department of Tamil, APA College of Arts and Culture, Palani.	State	2020 Jan 27 th
4.	Seminar on Recent Trends in Computational and Experimental Physics	Department of Physics, APA College of Arts and Culture, Palani.	International	2020 Jan 25 th
5.	Seminar on Applications Of Quantum Mechanics and Nanomaterials for Energy Storage.	Department of Physics &Chemistry, APA College of Arts and Culture, Palani	National	2018, Jan 1 st
6.	Workshop on Recent Trends in Advanced Material Sciences.	Indian Science Academies (IASc,INSA&NASI) Department of Physics, APA College of Arts and Culture, Palani.	National	2017, Sep 1 st & 2 nd
7.	Seminar on Recent Trends In Advanced Physics	IAPT Department of Physics, APA College of Arts and Culture, Palani.	State	2017, Mar 10th
8.	Seminar on Biodiversity And Modern Biotechnology Prospects And Challenges.	Department of Botany, APA College of Arts and Culture, Palani.	National	2017, Mar 10th
9.	Seminar on Recent Trends In Nano- Biotechnology,Bioinformatics,Biodive rsity And Its Conservation And Env.Impact On Global Warming	UGC Department of Zoology, APA College of Arts and Culture, Palani	National	2014, Oct 13 th
10.	Workshop on Advances in chemistry	Indian Science Academies (IASc,INSA&NASI) Department of Chemistry, Gandhigram Rural Institute, Dindigul	National	2013, Sep 6 th &7 th
11.	Seminar on Recent Trends In Advanced Materials And Geoinformatics	Department of Physics, APA College of Arts and Culture, Palani.	State	2013 Mar 1 st
	Seminar on	Department of Chemistry,		2013

12.	Renewable And Non-Renewable Energy Sources.	APA College for Arts & Culture, Palani	National	Jan 21 st
13	Seminar on Recent Trends in Biotechnology and Bioinformatics.	Department of Zoology, APA College of Arts and Culture, Palani	State	2012, Mar 30 th
14.	Workshop on Sustainability through Green Chemistry & Catalysis.	Department of Chemistry, PSGR Krishnammal Collgege for Women, Coimbatore.	National	2012, Mar 2 nd .
15.	Seminar on Recent Developments In Nano materials And Device Applications.	Department of Physics, APA College of Arts and Culture, Palani	State	2012, Feb.24 th
16.	Seminar on Nuclear Energy, Nuclear Reactors & their Safety-An overview.	Department of Physical and Life sciences, APA Arts College for Women, Palani.	State	2011, Dec.26th
17.	Seminar on Modern Trends in Chemistry	Department of Chemistry, APA College for Arts & Culture, Palani.	National	2011, Dec 20 th
18.	Workshop on Microscale Experiments in Chemistry.	Department of Chemistry, APA College for Arts & Culture, Palani.	State	2011, Dec 15 th
19.	Workshop on Recent Trends In Emerging Chemistry-2011	Department of Chemistry Sri GVG Visalakshi College for Women.Udumelpet.	National	2011, Jan 29 th
20.	Seminar on Emerging Trends in Chemistry	Department of Chemistry CPA College, Bodinayakanur.	National	2006, July 26 th & 27 th
21.	Seminar on Recent Trends In Chemistry.	Department of Chemistry, S.R.N.M.College, Sattur,	Inter-Collegiate	2005, Feb 19 th .
22.	Conference on A Spiritual Wisdom For A Value –Based Society	Centre for Yoga Studies, Annamalai University, Chidambaram	International	2004, Nov 6 th & 7 th
23.	Symposium on Medicinal Plants	PG and Research Department of Chemistry, Avinashilingam Deemed University Coimbatore.	National	2001, Nov 2 nd & 3 rd
24.	Seminar on Gender Equity- Critical Areas Of Concern.	Centre for Women Studies Avinashilingam Deemed University Coimbatore.	National	2000, Sep 23 rd .
25.	Seminar on Recent Advances In Reaction Mechanism.	UGC PG and Research of Department Chemistry,	National	2000, Mar 29 th

		V.H.N.S.N. College, Virudhunagar.		
26.	Seminar on Advances In Chemistry	PG and Research of Department Chemistry, V.H.N.S.N. College, Virudhunagar.	National	1999, Jan 19 th

G.Awareness/Training Programme Attended:

S. NO	Name of the Programme	Sponsoring Agency & Organiser	International/ National/ State/Regional	Year, Month & Date
1.	National Science Day Awareness: "Science for the people and the people for Science"	APA College for Arts & Culture, Palani.	National	2019, Feb 28 th
2.	National Science Day Awareness: "Fostering Scientific Temper"	APA College for Arts & Culture, Palani.	National	2014, Feb 28 th
3.	National Science Day Awareness: "Energy and Environmental Conservation"	APA College for Arts & Culture, Palani.	National	2013, Feb 28 th
4.	Orientation and Retraining of Teachers.	UGC APA College for Women, Palani.	National	2013, Feb 2 nd
5.	National Science Day Awareness: "Energy and Environmental Conservation"	APA College for Arts & Culture, Palani.	National	2012, Feb 28 th

H.Invited Lectures at National/State/Regional Conferences Or Seminars/Association:

S. NO	Title	Sponsoring Agency & Organiser	National/State/Regional Conferences Or Seminars/Association	Year, Month & Date
1.	Statistical Thermodynamics	Department of Chemistry, Mother Teresa University, Kodaikanal	Two days State level Seminar	2014 Aug 10 th
2.	Environmental	Department of Chemistry,	UG&PG Chemistry ASSOCIATION	2019 Aug 5 th

	Science	CPA College, Bodinayakanur.		
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Declaration

I certify that the information provided is correct as per records available with the college and/or documents enclosed along with this filled Proforma.

Place : Palani

Date: 21.4.2019

Name and Signature of the faculty with Designation

(Dr.S.MANIMEGALAI)

ASST.PROF./CHEMISTRY