




**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 of CHEMISTRY		
Name	Dr. M. C. DURAI MANICKAM	
Designation	Associate professor and HOD I/C	
Qualification	M.Sc. PhD	
Email id	<a href="mailto:Mcduraimanickam63@yahoo.com">Mcduraimanickam63@yahoo.com</a>	
Alternative email id	<a href="mailto:mcduraimanickam@gmail.com">mcduraimanickam@gmail.com</a>	
Experience	28 years and 7 months	
Date of joining	31 December 1990	
No. Of Journal Publication ( <b>International</b> )	Five	
No. Of Journal Publication ( <b>National</b> )	Ten	
No. Of Conference Attended ( <b>International</b> )	two	
No. Of Conference Attended ( <b>National</b> )	six	

**Academic Credentials**

Level	Degree	Specialization	University	Year of Completion
UG	B.Sc.	Chemistry	Madurai Kamaraj university	1985
PG	M. Sc	Chemistry	Madurai Kamaraj university	1987
M.Phil.,				
Ph.D.,	Ph.D	Chemistry	Madurai Kamaraj university	2004
UGC-CSIR	Eligibility test	chemistry	CSIR- Delhi	1988
Mhilguidence	9 members	Chemistry	Bharathdasan, MKU university	2004-2007
Ph.Dguidence	3 members	chemistry	M. S. university	2011 - 2018

**\*\*Details of Conference/Seminar Attender:**

- 1.International
- 2.National

**\*\* Attach Separate Sheet**

**Details of Journal Publications:**

## 1. International:

1. Effect of cyclodextrin encapsulation on photo-fries rearrangement of benzenesulphonanilide

K. Pitchumani, M. C. DuraiManickam and C. Srinivasan *Tetrahedron let.*, 1991, 32, 2973

2. Selectivity in photohydroxylation of 4- nitroveratrole and nitroanisoles catalysed by cyclodextrins K. Pitchumani, M. C. DuraiManickam and C. Srinivasan *J. photochem. Photobiol. A: chem.*, 2002, 149, 131.

3 Addition of Bromine to trans- stilbene: Reversal of stereoselectivity upon cyclodextrin complexation K. Pitchumani, M. C. DuraiManickam and C. Srinivasan *J. incl. Phenom. Macrocyclic Chem.*, 2002, 43,207

4. Effect of complexation in bromine addition to unsymmetrical olefins: evidence for participation of cyclodextrin hydroxyl groups K. Pitchumani, M. C. DuraiManickam S. Annalakshmi and C. Srinivasan *Org. Biomol. Chem.* 2005, 3, 1008

5 Physico –chemical characteristics of palar – porundalar River dam for drinking water, Palani town, tamilnadi J. Edraj, K. Kulathuran and M. C. DuraiManickam *Elixir pollution* 2014, 75, 27547-27549

## 2.National:

1. Modification of photochemical behaviour upon cyclodextrin complexation: photofries rearrangement of sulphonate esters K. Pitchumani, M. C. DuraiManickam and C. Srinivasan *Indian J. Chem.*, 1993, 12B, 1074.

2. Influence of cyclodextrin complexation on photo-fries rearrangement of sulphonyl derivatives K. Pitchumani, M. C. DuraiManickam, P. velusamy and C. Srinivasan *Proc. Indian Acad. Sci., (Chem. Sci.)* 1994, 106,49.

3. Regioselective photoamination of 4-nitroveratrole upon cyclodextrin complexation K. Pitchumani, M. C. DuraiManickam and C. Srinivasan *Proc. Indian Acad. Sci., (Chem. Sci.)*, 2003, 115, 273.

4. Kumaresan, C & Duraimanickam, MC, "Effect Of  $\beta$ -CD On Kinetics Polymerization Of Acrylamide Initiated By Ce (IV) – Vanillin Redox System". *International Journal Scientific Research and Review.*, 2019, 8(1), 3336-3346.

5. Kumaresan, C & Duraimanickam, M.C, 2018 "Polymerization Of Methylacrylate Initiated by Ce(IV) – Vanillin redox System in the presence and absence Of  $\beta$ -CD" A kinetic study *International Journal of Advance Engineering and Research Development.* 5 (04) (2018) 1236-1248 ISSN :2438-4470

6. C. Kumaresan, C & Duraimanickam, MC, 2018 "Polymerization of N, N methylene bis acrylamide initiated by Ce(IV) – vanillin redox system in the absence and presence of  $\beta$ -cyclodextrin". *International Journal of Current Research (ISSN:0975-833)* 10(02): .64921-64925

7. Kumaresan, C & Duraimanickam, MC, "Kinetic study of polymerization of methyl methacrylate initiated by Ce(IV) – vanillin redox system in the presence  $\beta$ -CD and micellar phase". volume :04 (2017), 175-183.

8. A.Kavitha and M.C. Duraimanickam, "Comparison study of rate of polymerization of acrylic acid in the presence and absence of  $\beta$ -CD in Ce(IV)-lactic acid redox system" International J. Research trends and Innovation. 2018, 3(9), 114-122.
9. A.Kavitha and M.C. Duraimanickam, "Ce(IV) initiated polymerization of acrylamide in presence of  $\beta$ -CD", World J. of Pharm. and life sciences. 2016, 1(6), 402-410. A.Kavitha and M.C. Duraimanickam, "Rate of polymerization of methylacrylate initiated by Ce(IV) in  $\beta$ -CD" J. of Adv. Chemical sciences. 2015, 1(3), 100-101.
10. A.Kavitha and M.C. Duraimanickam, "Rate of polymerization of methylacrylate initiated by Ce(IV) in  $\beta$ -CD" J. of Adv. Chemical sciences. 2015, 1(3), 100-101.

#### Conference both national and international

Sl No	Topic	University/Institution	Level	Month & year
1.	Kinetic study of polymerization of methyl methylacrylate initiated by Ce(IV)-Vanillin redox system in the presence of $\beta$ - CD and micellar phase.	Mother Teresa Womens University, Kodaikanal, Tamilnadu.	International	August 4, 2017.
2.	Kinetic study of polymerization of methyl methylacrylate initiated by Ce(IV)-Vanillin redox system.	Department of Chemistry, A.P.A.College of Arts&Culture Palani.	International	February 11, 2014.

#### National seminars

1.	Effect Of $\beta$ -CD On Kinetics Polymerization Of Acrylamide Initiated By Ce (IV) – Vanillin Redox System	Mother Teresa Womens University, Kodaikanal, Tamilnadu	National	July 30, 2018.
2	Applications of Quantum Mechanics and Nanomaterials for energy Storage	Department of Chemistry&Physics A.P.A.College of Arts&Culture Palani.	National	Jan 24,2018
3	Catalysis and catalyzed reactions	Department of natural products , Madurai Kamaraj University, Madurai	National	Mar 28,2114
4	Renewable & Non renewable energy sources	Department of Chemistry&Physics A.P.A.College of Arts&Culture Palani.	National	Jan 21 2013
5	Ce(IV) initiated Polymerization of methyl methylacrylate in micellar phase.	Department of Chemistry, PeriyarUniversity, Palkalainagar, Salem, Tamilnadu.	National	August 15-17, 2012.
6.	Polymerization of	HajeeKaruthaRoutherHowdiacoll	National	

	methylacrylate initiated by Ce(IV)-Lactic acid redox system in micellar phase.	ege,Uthmapalayam,Theni(Dt)		March 15-16, 2012.
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