



# TRICHY ENGINEERING COLLEGE

(A Unit of SS Group of Institutions)


(Approved by AICTE & Affiliated to Anna University, Chennai)

(An ISO 9001:2015 certified Institution)

Sivagnanam Nagar, Konalai, Trichirapalli - 621 105.

## DEPARTMENT OF SCIENCE AND HUMANITIES

### Faculty Profile

Name	: MR.T.RAJA			
Date of Birth	: 1/7/1981			
Highest Qualification	: M.Phil.,			
Date of Joining	: 25/10/2007			
Designation	: Assistant professor			
Date of promotion (Present Designation)	:			
Area of Interest	: INORGANICCHEMISTRY			
Mobile No	: 6381094428	Email ID	: rajachemistryphd@gmail.com	
Experience	: Teaching : 16yrs	Industry	: - Research :	
Address (for Communication)	: 63/A2,KUDI STREET,SENTHAIMARAIKAN,RD,SIRUGAMBUR,MANACHANALLUR TK,TRICHY-621213			

### Association with Professional Bodies

Name (Professional Body)	-	-	-	-
Type of Membership	-	-	-	-

### Research

<b>Ph. D Guidance</b>					
Supervisor / Guide ship No. :	-	University :	-	No. of Scholars :	-
<b>Publication*</b>					
International Journals :	13	National Journals :	Nil		
International Conference :	15	National Conference :	1		
<b>Project Grants (Research projects guided or undertaken/ Sponsored Projects)</b>					
Received (Amount) :	Nil	Applied (Amount) :	Nil		
<b>Patent</b>					
Published :	-	Granted :	Nil		

**Books**

	Nil
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**FDPs / STTPs / Workshops / Seminars etc.,**

FDP		STTP		Workshop		Seminar		Others	
Attended :	3	Attended :	Nil	Attended :	1	Attended :	1	Attended :	1
Organized :	Nil	Organized :	Nil	Organized :	-	Organized :	-	Organized :	-

<b>Online courses (NPTEL, MOOC etc.)</b>	<b>Nil</b>
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**\*List of Publications : -**

1. "Growth, spectroscopic, thermal and hardness studies of urea thiourea zinc iodide crystal as potential NLO material"  
S. Kumararaman, I. Cicili Ignatius, T. Thaila, T. Raja, K. Selvaraju,  
**Archives of applied science research, 2012, 4 (6): 2467 – 2473.**
2. "Synthesis and characterization of polymer encapsulated platinum nanoparticles and its phenolic derivative of 4-aminoantipyrine"  
S. Senguttuvan, T. Raja, T. Thaila, I. Cicili Ignatius, Nano Trends:  
**A Journal of Nanotechnology and Its Applications, 2013, Volume 14, Issue 3, 9-12.**
3. "Glycylglycine as Corrosion Inhibitor for Zinc Metal in Acid Solutions" A. Pasupathy, T. Raja, M. Raja, **International Journal of Scientific and Research Publications, Volume 5, Issue 2, February 2015, ISSN 2250-3153.**
4. "Triethylenetetramine as a Corrosion Inhibitor for Zinc Metal in Acidic Solutions" A. Pasupathy, T. Raja, M. Raja, **International Journal of Scientific and Research Publications, Volume 5, Issue 2, February 2015, ISSN 2250-3153.**
5. "Effect of Magnesium Chloride on the Habit Modification of Spectral, Thermal and Nonlinear Optical Properties in KDPC Crystals"  
S. Kumararaman, T. Thaila, I. Cicili Ignatius, T. Raja, **International Journal of Scientific Research and Development (Accepted).**
6. "Adsorption of Methylene Blue Using low Cost Adsorbent obtained From Adhatoda Zeylanica Leaves" T. Raja and A. Pasupathy, **International Journal of Research In Pharmacy and Chemistry, IJRPC 2017,7(3),348-352. ISSN:2231-2781.**

7. "Adsorption of Malachite Green Using low Cost Adsorbent obtained From Adhatoda Zeylanica Leaves" T.Raja and A.Pasupathy, **International Journal of Research In Pharmacy and Chemistry, IJRPC 2017,7(3),348-352. ISSN:2231-2781.**
8. Electrochemical behavior of carbon steel in sodium chloride solution by using thiophenol derivative inhibitor. **Materials today proceedings, 69, 1501, 2022. (ELSEVIER), ISSN: 2214- 7853.**
9. Corrosion inhibition performance of carbon steel in IN hydrochloric acid by an aqueousextract of Syzgium cumini Linn (SCL) plant leaves, **International journal of corrosion and scale inhibition 11(4), 1819-1838,2022.ISSN:2305-6894.**
10. Corrosion behavior of carbon steel in sea water by using amino benzoic acid inhibitor. **European Journal of Molecular & Clinical medicine, 9, 8, 3406-3423,2022.ISSN:2515-8260**
11. Anti-Biocorrosive and biocidal efficacy of hydroxyquinolin derivative as seawater corrosion inhibitor. **International journal of zoological investigation, 9, 15<sup>th</sup>april2023.ISSN:2454-3055**
12. Anti-corrosion performance of syzygium cumini Linn (SCL) plant leaves for carbonsteel immersed in hydrochloric acid medium, **Portugaliae electrochemica acta** (Accepted).
13. Evaluation of Corrosion inhibition effect of carbon steel immersed in hydrochloric acid bythe aqueous extract of coccinia cordifolia plant leaves. **(Published in BookChapter)**  
**Title of the book :** Novel Materials For Sustainable Future, Volume – I,  
Page no. 138-155, April 2023, **ISBN 978-81-951871-6-4.**