

## **Faculty Research Details**

Ph.D Completed 5 Ph.D Supervisors 5

Ph.D Pursuing 1

## **Faculty Publications**

S.No	Year	No. of SCI Journals	No. of ESCI Journals	No. of Scopus Indexed Journals	No. of UGC and Other Journals	Total
1	2024-2025	1	-	-	-	1
2	2023-2024	5	-	-	-	5
3	2022-2023	2	-	-	-	2
4	2021-2022	2	<del>-</del> -	<del>-</del> -	-	2

# Research Paper Published 2024-2025

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No.Issue No., Page No., Month & Year
1	Dr. S. Luna Eunice	A Review on boosting the Photo catalytic degradation of organic pollutants using modified Nano composites	Research Journal of Chemistry & Environment	Volume, 29, Issue 05, May 2025

## Research Paper Published 2023-2024

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No.Issue No., Page No., Month & Year
1	Dr. J. Dhanalakshmi	Spectroscopic (FT-IR, FT-Raman, UV– Vis and NMR) and computational (DFT, MESP, NBO, NCI, LOL, ELF, RDG and QTAIM) profiling of 5-chloro-2-hydroxy- 3-methoxybenzaldehyde: A promising antitumor agent	Journal of Molecular Structure	1298, 1, 136974, 2024
2	Dr. J. Dhanalakshmi	Insights into structural, vibrational, and chemical shift characteristics, solvents impact (polar and nonpolar) on electronic properties and reactive sites, ADMET predictions, and ligand-protein interactions for antiviral drugs safrole and isosafrole: An in-silico approach	Chemical Physics Impact	8, 100443, 2024

# Research Paper Published 2023-2024

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No.Issue No., Page No., Month & Year
3	Ellappan Vaishnavi a, Keerthana Balasubramaniam a, Karuppiah Nagaraj b, Mohammad Ahmad Wadaan c, Prasenjit Maity d, Almohannad Baabbad c, Subramanian Kamalesu e, Rajalingam Renganathan f, S.M. Abhijith b, Nilesh Prakash Badgujar g, S. Shamim Rishwana	Synthesis of CdTe quantum dots using Glutathione promoted in Vitro Interaction between Lysozyme and Flavanoids: An investigation through spectroscopic methods,	Journal of Molecular Structure	Volume 1306, 15 June 2024, 137818,

# Research Paper Published 2023-2024

SI No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No.Issue No., Page No., Month & Year
4	J. Dhanalakshmi	Studies on thermoset blend of bismaleimide having multiple swivel groups and biscyanate ester	Journal of Elastomers and plastics	Vol.55, Issue.4, pp. 475-491, & 2023
5	Dhanalakshmi	Fumarate metal organic frameworks as reactive and curing reaction alternant in hydrophobic bispropargyl ether based matrix resin system	Journal of Polymer Research	Vol.30, pp.431-439 & 2023

## Research Paper Published 2022-23

SI No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No., Month & Year
1	J.Dhanalaksh mi	Studies on thermoset blend of bismaleimide having multiple swivel groups and biscyanate ester	Journal of Elastomers and plastics	Vol.55, Issue.4, pp. 475-491, & 2023
2	J.Dhanalaksh mi	Fumarate metal organic frameworks as reactive and curing reaction alternant in hydrophobic bispropargyl ether based matrix resin system	Journal of Polymer Research	Vol.30, pp.431- 439 & 2023

# Research Paper Published 2021-2022

SI No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No.Issue No., Page No., Month & Year
1	Dr.S.Luna Eunice	Effect of Polymer Structure on the Size and Shape of Metal and Metal Oxide Nanopowder: An HR-TEM Approach	NANO: Brief Reports and Reviews	Vol. 17, No. 7 (2022) 2250055
	Rishwana.	Low-Temperature Processable Glass Fibre Reinforced Aromatic Diamine Chain Extended Bismaleimide Composites with Improved Mechanical properties	Polymer Composites	Vol.43, pp. 6987– 6997 & 2022

## Book Chapters Published



- **1. J. Dhanalakshmi**, and C.T. Vijayakumar, "Studies on thermal curing and thermal degradation of recyclable thermoset material", Book Title: Recent Advances in Bioremediation and Phyto remediation, Springer Nature, 53-62, 2025, ISBN: 978-3-031-77884-1
- **2. J. Dhanalakshmi** and C.T.Vijayakumar. "Bismaleimide and Nano Composite Blends: Studies on thermal curing and thermal degradation", Book Tile: Indo-South Korea-Thailand 2nd International e-Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA-2022) Special Issue November 2022, ISBN: 978-93-5768-301-2



## Book Chapters Published



- 1. Siva kaylasa sundari, **S. Shamim Rishwana**, **J. Dhanalakshmi**, R. Ramani and C.T. Vijayakumar, "Nanoporous metal organic frameworks: Effect of thermal history on crystallinity and thermal stability", Chapter 15, Multidisciplinary science and advanced technology, Nova science publishers, Newyork. ISBN: 978-1-53619-198-1 (ebook), Publication Date: January 2021
- **2. J. Dhanalakshmi**, S. Siva Kaylasa Sundari and C.T. Vijayakumar, "Thermal Studies on Styryl Modified Resorcinolic Resin Formaldehyde Donar Adhesion Systems for Rubber Industry", Book Title: A Comprehensive Guide to Formaldehyde, Book Chapter: 4, Nova Science Publishers, New York. e-ISBN: 978-1-53619-507-1, Publication Date: April 2021.







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# Faculty Awards

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Dr. T. Dhanalakshmi	NPTEl Online Course on Innovation By Design
Dr. S. Shamim Rishwana	NPTEL Online Course on Soft Skill Development
Mr. N. Sivakumar	NPTEL Online Course on Stress Management
Dr. J. Dhanalakshmi	NPTEL Online Course on Food Packaging Technology
Dr. S. Luna Eunice	NPTEL Course on Effective Engineering Teaching in Practise











### **Faculty Industrial Training**

#### SPIC, Tuticorin



#### **Atomic Power Plant, Kudankulam**



CSIR, Chennai



#### **Faculty Industrial Training 2024-25**

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#### ISRO, MAHENDRAGIRI

