



**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

## **DEPARTMENT OF BIOTECHNOLOGY**

## **FACULTY CONTRIBUTIONS**

# DEPARTMENT - ACHIEVEMENT

Permanent Affiliation from Anna University  
(2014 onwards)

NBA Re-Accreditation

2020

2023 MSME /24.0 Lakhs

2022 AU funded workshop

2018 BDA funded workshop

NBA Re-Accreditation

2017

DBT project /45.89 Lakhs

2016

DBT funded Conference

NBA Re-Accreditation

2013

2015

DST-SERB funded Conference

Centre for Research

2011

2012

AICTE/MODROBS /12.0 Lakhs

UGC/NBA Accreditation

2009

2010

AICTE/RPS / 2.5 Lakhs

M.Tech Biotechnology

2008

TNSCST project / 2.0 Lakhs

2007

DRDO project / 8.38 Lakhs

2005

B.Tech. Biotechnology Intake was revised to 60 seats

2004

DRDO project / 3.0 Lakhs

2003

DRDE project / 4.55 Lakhs

2002

B.Tech. Biotechnology Started with 40 seats

## HIGHLIGHTS OF FACULTY CONTRIBUTION

- ❖ 60 % of the Faculty Members are with PhD
- ❖ 50 % of the Faculty Members cleared GATE
- ❖ 40 % of the Faculty Members are University Rank Holders
- ❖ 40 % of the Faculty Members are having PhD supervisorship Listed in  
Top 10 % World Scientists listed in AD index
- ❖ Toppers in NPTEL
- ❖ Reviewer / Editor in Journals

**MSME**MICRO, SMALL & MEDIUM ENTERPRISES  
सूक्ष्म, लघु एवं मध्यम उद्यम  
OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India

# RESEARCH PROJECT

भारत सरकार  
GOVERNMENT OF INDIAविज्ञान और प्रौद्योगिकी मंत्रालय  
MINISTRY OF SCIENCE AND TECHNOLOGYजैवप्रौद्योगिकी विभाग  
DEPARTMENT OF  
**BIOTECHNOLOGY**

सत्यमेव जयते

Sl. No	Year / Period	Title of the Project	Name of the Investigator / Co investigator	Funding Agencies	Amount (Rs.)	Status
1	2023-24	Design And Fabrication Of Solar Assisted Smart Bokashi Composter For Onsite Conversion Of Bio-Waste To Organic Fertilizer At Infertile Soil Area	Dr.S.Karthi kumar, Jeyavarshini.B	Ministry of Micro, Small & Medium Enterprises – MSME Hackathon 2.0 (Product Development)	10,25,000	On Going
2	2023-24	Design And Development of AI-Based Smart Water Food Quality Analyzer as A Home Appliance To Monitor The Selected Quality Parameters, Contaminants And Adulterants	Dr.S.Karthi kumar	Ministry of Micro, Small & Medium Enterprises – MSME Hackathon 2.0 (Product Development)	11,47,500	On Going
3	2017-20	Culturable Actinomycetes Associated with Coastal Lichens: A Potential Source of Bioactive Compounds	Dr.R.Shyam Kumar, Dr.I.Ganesh Moorthy	Department of Biotechnology, Ministry of Science and Technology	Total amount 88,53,900 for KCET 45,89,200	Completed



Sl. No	Year / Period	Title of the Project	Name of the Investigator / Co investigator	Funding Agencies	Amount (Rs.)	Status
4	2022 - 2023	Fabrication of Thin Biofilm using Boiled Rice water reinforced with microalgae, An Ecofriendly Approach	Dr.R.Shyam Kumar, Mousika R, Niranjana Devi R and Sudharshan G	Foundation for Advancement of Education and Research (FAER)	6,000	Completed
5	2020 - 2021	Enzymatic synthesis of feruloyl lipid to improve the oxidative stability of biodiesel	Dr.S.Karthikumar, Ms.Jemima Romola C.V	Institution of Engineers (India)	50,000	Completed
6	2020 - 2021	Design and Fabrication of Foam separation column to remove chromium Heavy metals from Leather Tannery Effluent	Dr.S.Mariamalraj, Ms. Brindhajothi	Institution of Engineers (India)	60,000	Completed

Sl. No	Year / Period	Title of the Project	Name of the Investigator / Co investigator	Funding Agencies	Amount (Rs.)	Status
7	2022 – 23	Boiled rice water and protein-based bio- film development by injection moulding for Packaging	Dr.R.Shyam Kumar, Sumana R.		7,500	Completed
8	2020 – 21	Cost effective method development for C-Phycocyanin recovery from spirulina plantensis using Ohmic heating approach	Dr.S.Karthikumar & G.Janakiraman , R.Akash , R.S.Vishnu Shagar	Tamil Nadu	7,500	Completed
9	2020 – 21	Cost effective Rice Water based green composite film development for food packaging	Dr.R.Shyam Kumar & A.Vinnarasi	State Council for Science and Technology	7,500	Completed
10	2020 – 21	Development of Agro-Waste based heterogeneous Catalyst to produce Biodiesel from used Cooking Oil.	Dr.I.Ganesh Moorthy & R.Akash, M.Areef Sulaiman, P.Bhavesch Chandru		7,500	Completed
11	2020 - 21	Evaluation of antioxidant potential of Phytoconstituents isolated from Artocarpus haterophyllus peel	Dr.A.Ronaldo Anuf & V.S.Nivethitha		7,500	Completed

# PUBLICATION

Total No. of Journal Article : 129, Citations : 2177, h-index : 21

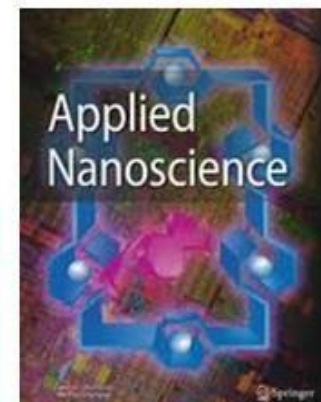
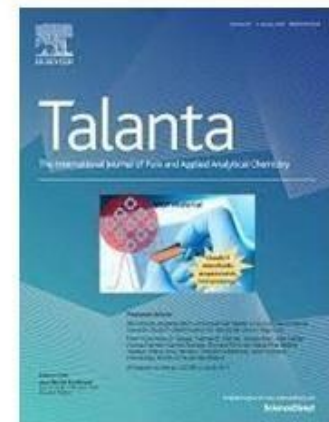
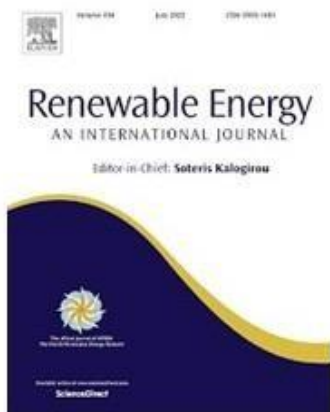
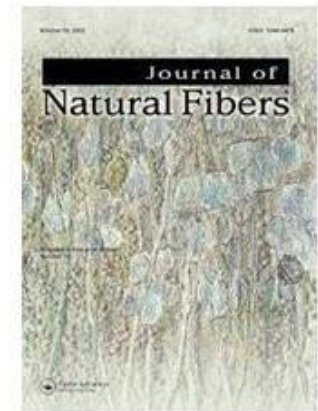
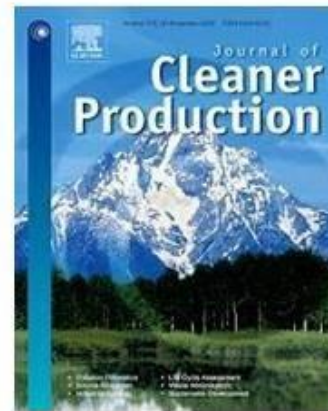
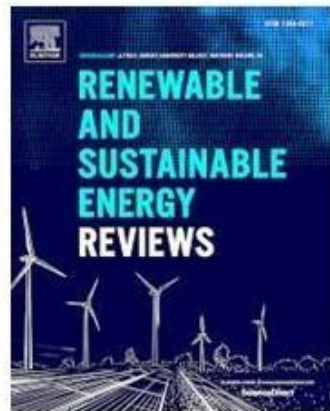
2019 to 2022

No. of Article : 47

Cumulative IF : 184.4

Ave. IF : 3.92

Highest IF : 16.79



# FACULTY INTERACTION WITH OUTSIDE WORLD

Joint Major Research Project with

Joint publication with

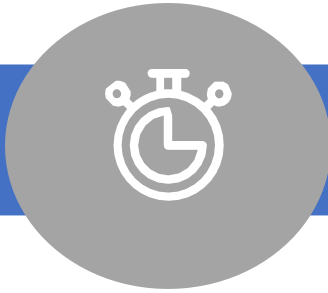


## Google Scholar Citation:

S. No	Name of the faculty	Citation	h-index	I <sub>10</sub> index
1	Dr. R.Shyam Kumar	1173	19	28
2	Dr. K.Geetha	65	3	2
3	Dr. S.Karthikumar	444	10	10
4	Dr. A.Ronaldo Anuf	471	9	9
5	Dr. D.Pradiba	63	4	2
6	Er. S.Manibalan	14	2	0
7	Dr. S.Mariaamalraj	23	2	1
8	Dr. V.C.Padmanaban	512	14	17
9	Dr. M.Vasanthi	221	9	9
10	Dr. Anant Achary	364	12	14
11	Dr. I.Ganesh Moorthy	1307	19	31



## Patent



1. An Alkaline Protease Enzyme Purifying, Recovering Apparatus And Process Thereof
2. Effective Biological Delignification Of Noxious Lignocellulosic Substrate *Prosopis Juliflora* For Bioethanol Production With Newly Isolated *Paecilomyces Sp. Garj*

Patent Filed : 3

1. A Method For C-Phycocyanin Fortified Dried Agar And Gelatin Based Hydrocolloids And The Process Thereof
2. A Process Of Improvement In Activity Retention And Color Stability Of C-Phycocyanin During Ohmic Heating Assisted Recovery
3. In-Situ Automated Greenhouse Monitoring and Controlling System

## Design

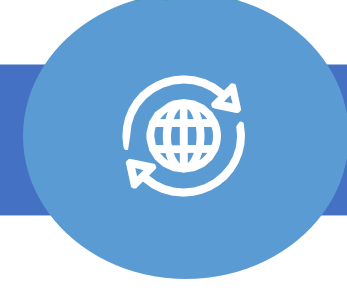


Design  
Registered – 2  
(FER received)

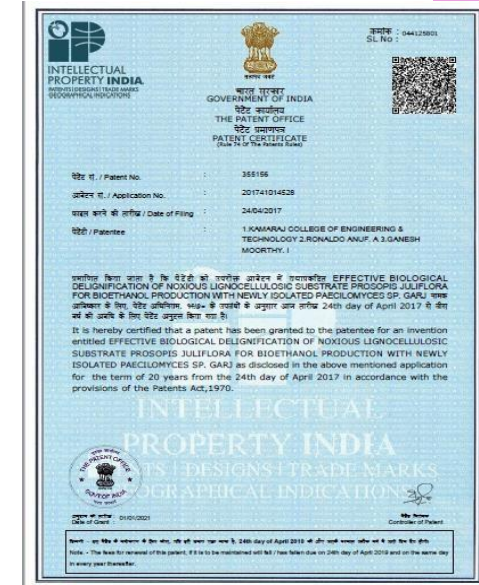
1. Algae Assisted  
Desalination  
Cell

2. Algae Assisted  
Fuel Cell

## Copy right



Copyright  
Registered – 1  
Submitted - 1



# PhD Guidance



Centre For  
Research, Anna  
University  
Chennai  
Recognized in

6

Research Supervisor

13

Total Scholars completed PhD

8

Scholars completed PhD during  
assessment Period

10

Scholars Pursuing PhD

9

4

Part Time : 5

# Faculty Participations in FDPs/STTPs

Name of the Faculty	Faculty development/training activities/STTPs		
	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)
Dr. R.Shyam Kumar	5	5	5
Dr. K.Geetha	5	5	5
Dr. I.Ganesh Moorthy	-	5	5
Dr. S.Karthikumar	5	3	5
Dr. A.Ronaldo Anuf	5	5	5
Dr. D.Pradiba	5	5	-
Er. S.Manibalan	-	3	-
Er.R.Amuthalakshmi	5	5	5
Dr. S.Mariaamalraj	5	-	-
Er.M.Soundaryalakshmi	5	5	5
Sum	40	41	35



राष्ट्रीय लघु उद्योग निगम लिमिटेड  
The National Small Industries Corporation Ltd.



**NITTTR CHENNAI**  
National Institute of Technical Teachers Training and Research  
[MINISTRY OF EDUCATION, GOVT. OF INDIA]  
Taramani, Chennai 600113 Tamilnadu

# New Product Development

- Foam Fractionation Column (Patented)
- Value added product (Spirulina enriched peanut Chikki)
- Paper sensor for Chlorpyriphos pesticide detection
- Probiotic Rice Water based Soft Drink
- Biodegradable Film
- Fermented Batter Dry Powder

