

# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



(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).

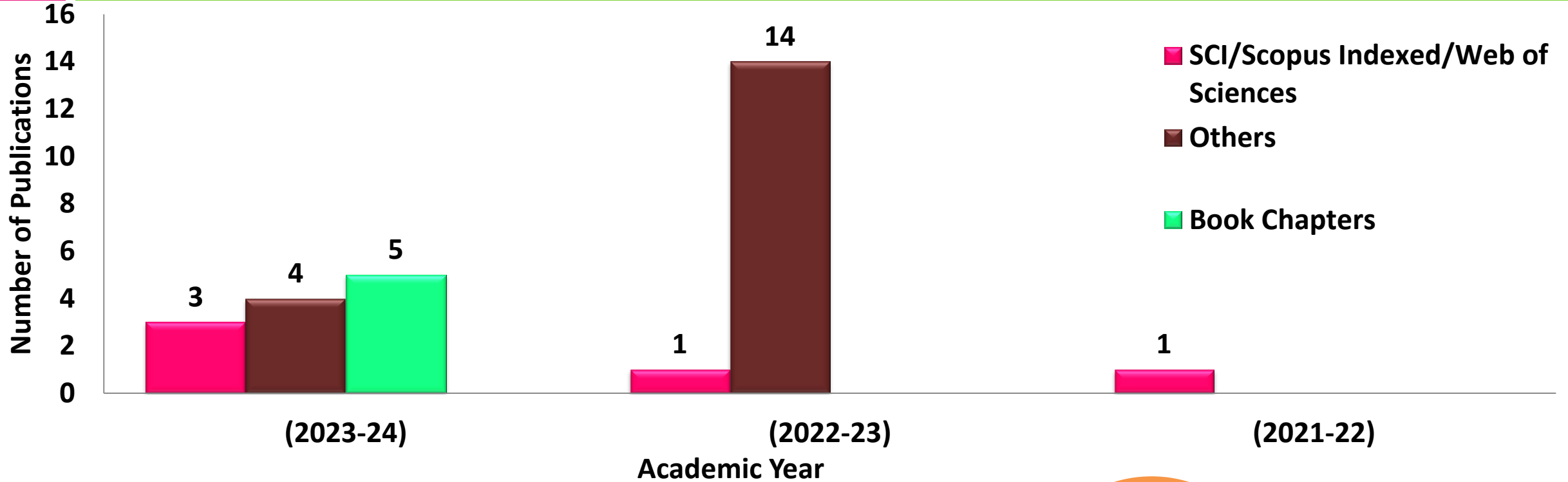
## Faculty

## Achievements



## DEPARTMENT OF MECHATRONICS ENGINEERING

# Faculty Research Details



**Total Faculty Count - 7**

**Faculty With Ph.D., - 3**

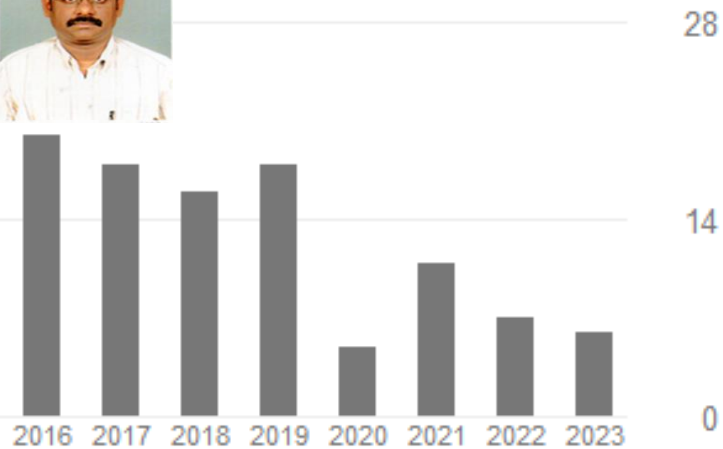
**Faculty Pursuing Ph.D., - 4**

# Google Scholar Citations (as on 20 February 2024)

## Dr K Kannan

All Since 2019

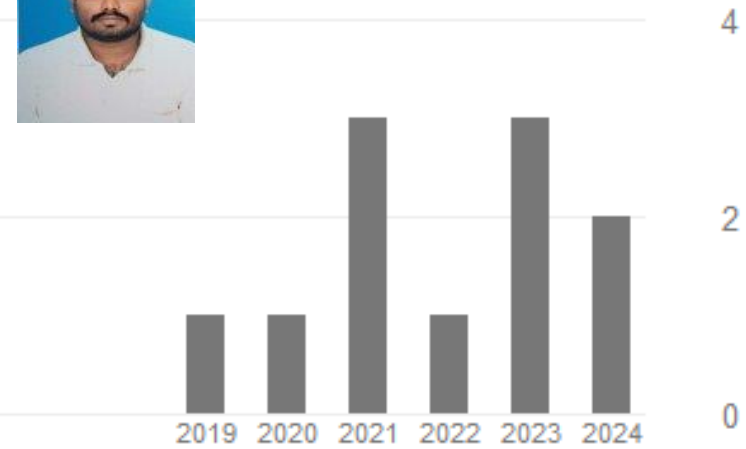
Citations	200	47
h-index	7	4
i10-index	6	3



## Dr Sudalaimani M

All Since 2019

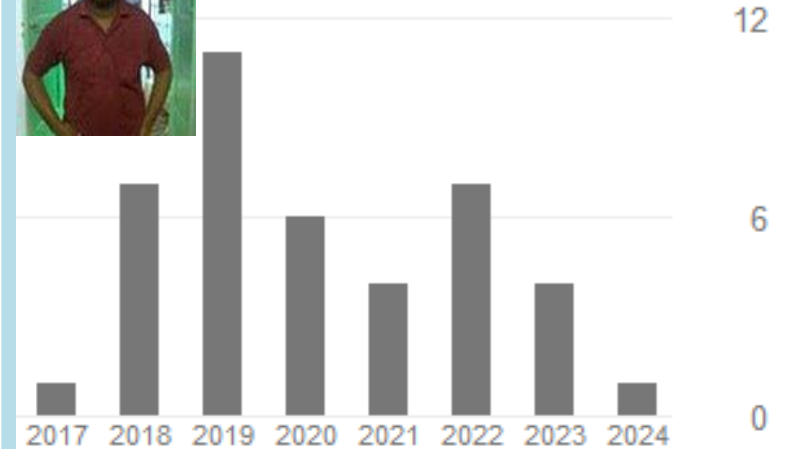
Citations	11	11
h-index	2	2
i10-index	0	0



## Dr Rajeshbabu S

All Since 2019

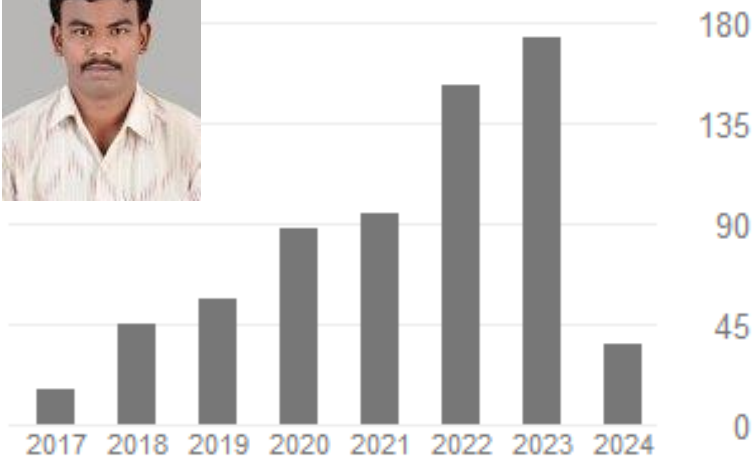
Citations	47	33
h-index	3	3
i10-index	3	2



# Google Scholar Citations (as on 20 February 2024)

## Dr Balasundar P

	All	Since 2019
Citations	673	605
h-index	11	11
i10-index	11	11



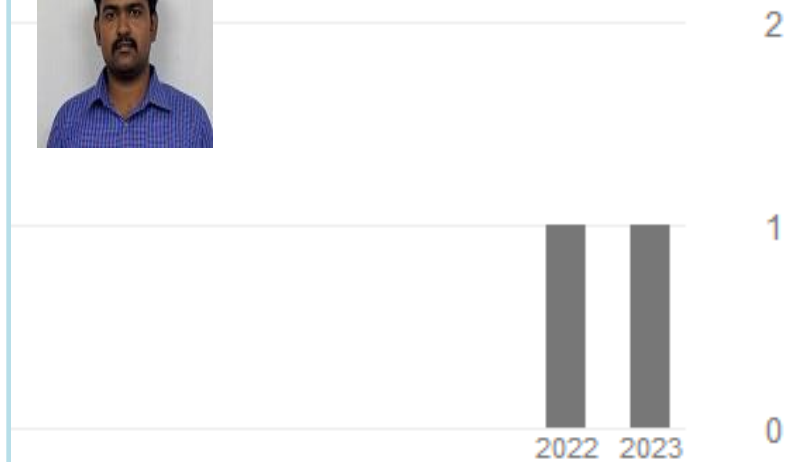
## Mr ARULKUMAR A

	All	Since 2019
Citations	5	0
h-index	1	0
i10-index	0	0



## Mr Wesley Moses Samdoss S

	All	Since 2019
Citations	2	2
h-index	1	1
i10-index	0	0

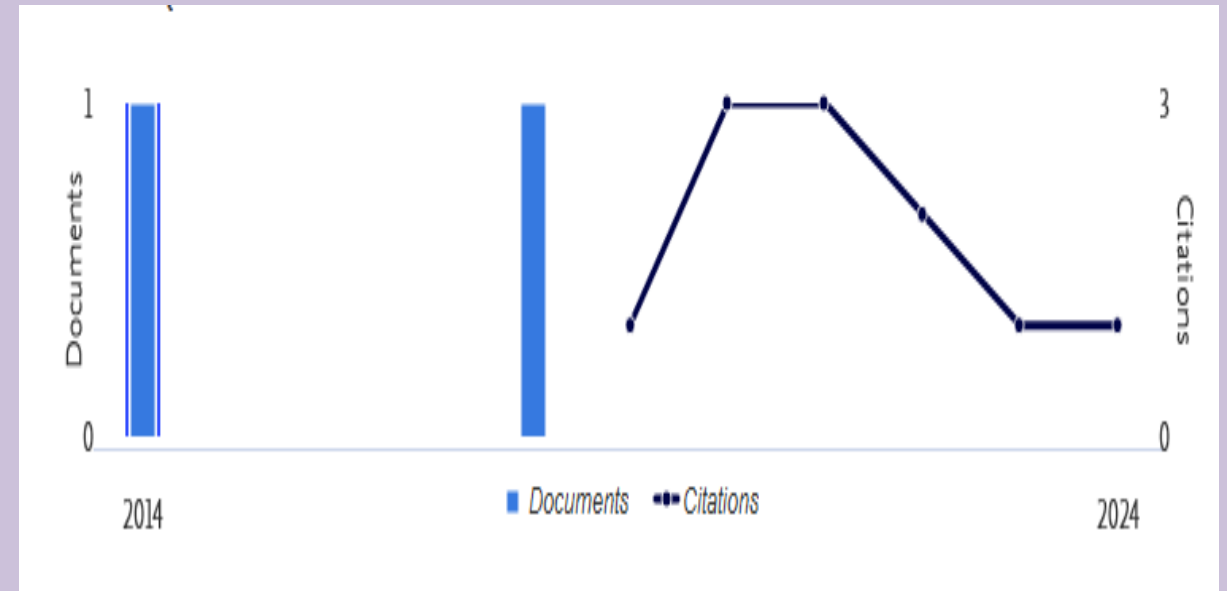
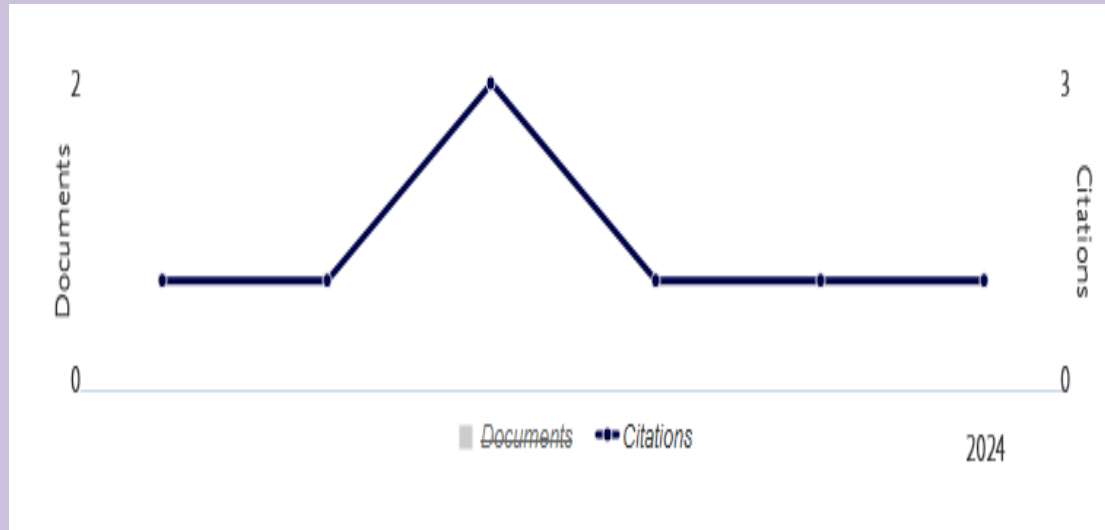


# Scopus Citations (as on 20st Feb 2024)

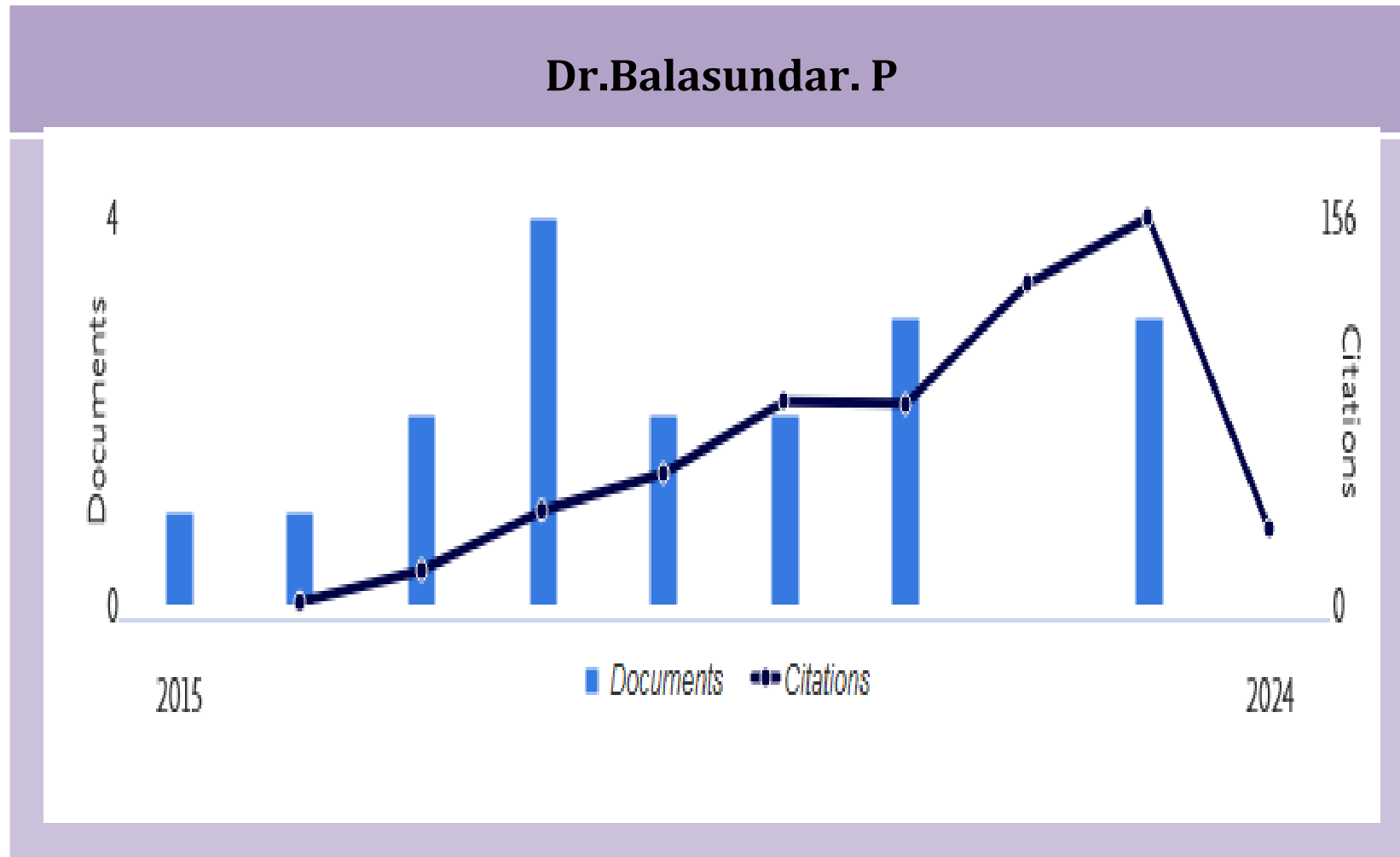
Sudalaimani, M



Dr. S.Rajeshbabu

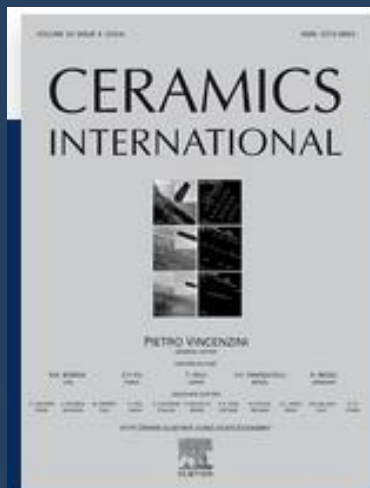
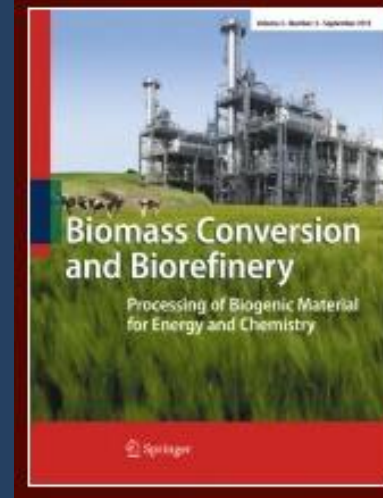
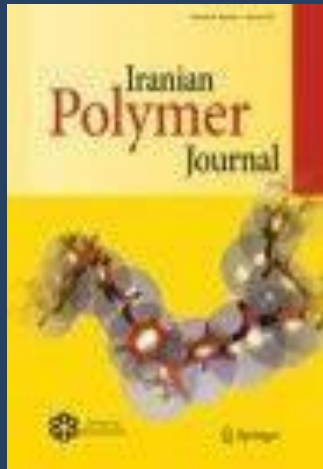


# Scopus Citations (as on 20st Feb 2024)



# Faculty Publications in reputed Journals

7



# Faculty Publications (2023-24)

4

S. No.	Journal Name	All Authors Name	Title of The Paper	Vol. No.	Issue No.	Page No.	Month of Publication	Year of Publication
1	Biomass Conversion and Biorefinery,	M.Prithiviraj, Rathinavel Subbiah, P. Manimaran and <b>K. Kannan,</b>	Cellulosic fiber extraction and characterization from derris scandens (Roxb.) benth root for polymer composite reinforcements				August	2023
2	Indian Journal of Science and Technology	<b>K. Kannan</b>	Enhancement of Proton Density Magnetic Resonance Images using Histogram Equalization and Unsharp Masking	16	32	2534-2539.	-	2023
3	international Journal of Advanced Networking and Applications	K. Kannan, S. Wesley Moses Samdoss	On The Performance Of Histogram Equalization Techniques In Enhancement Of Proton Density Weighted Magnetic Resonance Images	15	3	5940-5945	-	2023
4	Technische Sicherheit	K. Kannan, S. Wesley Moses Samdoss, A. Ganesan,	Multi-focused Image fusion using Higher Density DWT	23	8	12-19	-	2023
5	ACS Omega,	Kaliraj Medadurai, Narayanasamy Pandiarajan, Balavairavan Balasubramanian and Balasundar Pandiarajan,	Fabrication and Testing of Crop Waste Ceiba pentandra Shell Powder Reinforced Biodegradable Composite Films	45	8	42762-42775	-	2023



# Faculty Publications (2022 -2023)

4

S. No.	Journal Name	All Authors Name	Title of The Paper	Vol. No.	Issue No.	Page No.	Month of Publication	Year of Publication
1.	Research & Reviews: Journal of Embedded System & Applications	K Kannan	Enhancement of Proton Density Weighted Magnetic Resonance Images using Singular Value Decomposition in Wavelet Domain,	10	02	10-20.	-	2022
2.	International Journal Advanced Networking and Applications	K Kannan	Application of Partial Differential Equations in Multi Focused Image Fusion	14	02	5266-5270	-	2022
3.	Research & Reviews: Discrete Mathematical Structures,	K. Kannan	All-in-One Focus image using Guided Filters,	9	2	-	-	2022
4.	Int. J. Advanced Networking and Applications	K. Kannan	Multi focused Image Fusion using Fast Adaptive Bilateral Filter	14	03	5477-5481	-	2022

# Faculty Publications (July 2022 to June 2023)

4

S. No.	Journal Name	All Authors Name	Title of The Paper	Vol. No.	Issue No.	Page No.	Month of Publication	Year of Publication
5.	Physica Scripta	<b>P Balasundar</b> , S Senthil, P Narayanasamy, T Ramkumar	Mechanical, thermal, electrical, and corrosion properties of microwave-sintered Ti-0.8Ni-0.3Mo/TiB composites	98	6	1402-4896	May	2023
6.	<u>Biomass Conversion and Biorefinery</u>	Pratheesh, P. Narayanasamy, R. Prithivirajan, T. Ramkumar, <b>P. Balasundar</b> , S. Indran, M.R. Sanjay & Suchart Siengchin	Cenosphere filled epoxy composites structural, mechanical, and dynamic mechanical studies	-	-	-	April	2023
7.	Ceramics International	<b>P Balasundar</b> , S Senthil, P Narayanasamy, T Ramkumar,	Microstructure and tribological properties of microwave-sintered Ti0.8Ni–0.3Mo/TiB composites	489	4	6055-6062	February	2023

# Faculty Publications (2021 -2022)

4

S. No.	Journal Name	All Authors Name	Title of The Paper	Vol. No.	Issue No.	Page No.	Month of Publication	Year of Publication
1	Iranian Polymer Journal	Gurukarthik Babu Balachandran, Prince Winston David, Anandha Balaji Alexander, Rajesh Kannan Mariappan, P Balasundar, Bk Parrthipan, Ss Saravanakumar, P Senthamarai Kannan	Saccharum Barberi Grass Bagasse Ash-Based Silicone Rubber Composites For Electrical Insulator Applications	30	12	1285-1296	December	2021
2	Journal of Natural Fibers	R Shyam Kumar, <b>P Balasundar</b> , NA Al-Dhabi, R Prithivirajan	A New Natural Cellulosic Pigeon Pea (Cajanus cajan) Pod Fiber Characterization for Bio-degradable Polymeric Composites	18	9	1285-1295	-	2021
3	Surfaces and Interfaces	R Thulasiram, S Mani, M Murugesan, N Pandiyaraj, <b>Balasundar Pandiyaraj</b> ,	Studies on adhesion strength and corrosion behavior of ZnO-Mg coated on AISI 4140,	23	-	10098 6	April	2021

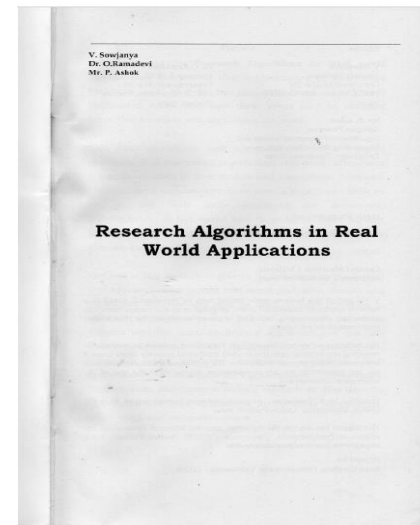
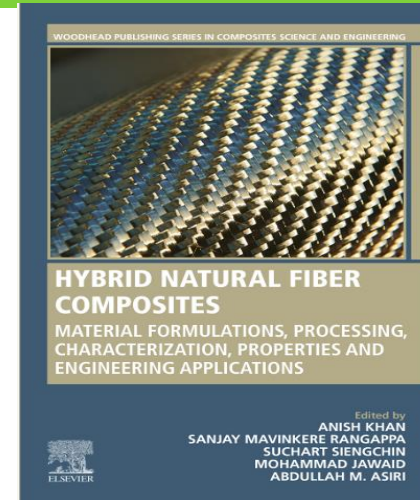
# Faculty Publications (2021 -2022)

4

S. No.	Journal Name	All Authors Name	Title of The Paper	Vol. No.	Issue No.	Page No.	Month of Publication	Year of Publication
5	Hybrid Natural Fiber Composites,	K Koppiahraj, S Bathrinath, P Narayanasamy, <b>P Balasundar,,</b>	A review on the factors influencing natural fiber composite materials	-	-	185-205.	February	2021
6	Energies	<b>Sakthivel Ganesan,</b> PW David, PK Balachandran, D Samithas,,	Intelligent starting current-based fault identification of an induction motor operating under various power quality issues	14	2	304	November	2020

# Book Chapters Published

S. No.	Name of the Faculty	Book Chapters
1	Dr.P.Balasundar	<p><b>Title of the Chapter: A Review on the Factors Influencing Natural Fiber Composite Materials</b></p> <p><b>Title of the Book: Hybrid Natural Fiber Composites</b></p>
2	Dr.K.Kannan	<p><b>Title of the Chapter: Image Fusion Algorithms for Real World Applications.</b></p> <p><b>Title of the Book: Research Algorithms in Real World Applications.</b></p>



# Patent Granted/Filed

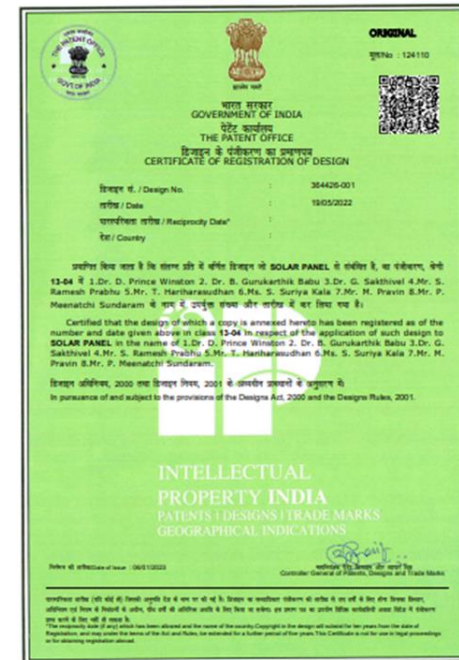


Dr. K.Kannan ,Prof essor & Head  
of the Department/ MTRE

**Granted: Spacers with Strip  
slot for tubeless tires**

**Granted: Incense Burner**

**Filed: Oil Recovery System  
from under weighted Pouches**



# Copyrights Filed/Granted



21



**Mr.S.Wesley,Moses Samdoss,Dr.K.Kannan,Dr.S.Rajeshbabu**  
**No: L-117816/2022**  
**Class: Literary**  
**Title: Embedded Systems Design Laboratory Manual**



**Mr.S.DavidBlessely,Mr.A.Arulkumar,**  
**Dr.K.Kannan,Mr.S.Wesley Moses Samdoss**  
**No: L130084/2023**  
**Class: Literary/ Dramatic**  
**Title: Manufacturing and Sensors Lab Manual**



**Dr.K.Kannan, M.Prithiviraj, Mr.S.Wesley,Moses Samdoss,**  
**No: L-128171/2023**  
**Class: Literary/ Dramatic**  
**Title: Mechatronics Laboratory for Mechanical Engineers**

# Funded Projects



सत्यमेव जयते

## MSME

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

Ministry of MSME, Govt. of India



**Title of the Project: Design and Fabrication of Pesticide Spraying and Seed Sowing Robots.**

**Sanctioned Amount: 9,00,000/-**

**Name of the Agency: MSME**





# Faculty Pursuing Ph.D., at our College Research Centre



Ph.D., Current Status

Part Time - 2

Total 2

S. No.	Name of the Supervisor	Research Scholar's Name	Photo	Research Title	Category	Status
1	Dr. D.Prince Winston	Mr.A.Arulkumar		Performance Analysis of Renewable Energy Systems	Part – Time	Confirmation Completed
2	Dr. R.Sureshbabu	Mr.S.Wesley Moses sandoss		Development of Machine Learning Algorithm for Smart Health Applications	Part – Time	Confirmation Completed

# Faculty Completed Ph.D., at our College Research Centre

Name of the Supervisor	Research Scholar	Title of the thesis	Category	Date of Viva voce	Photo
Dr.S.Senthil	P.Balasundar	Investigation of Microwave Sintered Ti-0.8NI-0.3Mo Composites	Part Time	30.06.2023	
Dr.D.Prince Winston	G.Sakthivel	Certain Investigation on Fault Diagnosis of an induction motor for various industrial application	Part Time	08.03.2022	

# Faculty Achievements



Rankings for Scientist

University, Subject,  
Country, Region, World

**World Scientist and University Rankings**

**Dr. K.Kannan- World Scientist and University Rankings 2023 -  
AD Scientific Index**



Rankings for Scientist

University, Subject,  
Country, Region, World

**World Scientist and University Rankings**

**Dr. P.Balasundar - World Scientist and University Rankings 2023  
AD Scientific Index**

