

Faculty Profile



Dr.S.Raja,M.E.,M.B.A.,P.G.D.C.F.S.,P.G.D.N.G.O.M.,Ph.D.,
Assistant Professor (OG)

HIGHLIGHTS:

- ❖ Number of Journal Publications: 105
- ❖ H-Index: 28
- ❖ Patents Published: 20
- ❖ Recognized among the World's Top 2% Scientists – Stanford University, 2025
- ❖ Recognized Anna university supervisor, Ref. no-4620012
- ❖ Director of Research Centre- (March 2024- April 2026)
- ❖ Active Editor member on Prestigious WoS/Scopus Scientific Indexing journals
- ❖ 77% of International Publications overall.

PROFESSIONAL LINKS:

- ❖ Scopus ID: 59679878800
- ❖ Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=59679878800>
- ❖ Google Scholar ID: <https://scholar.google.com/citations?user=xrC61BYAAAAJ&hl=en>
- ❖ Anna University Faculty ID: 2677031995
- ❖ LinkedIn: https://www.linkedin.com/in/dr-raja-s-5b8881173?utm_source=share_via&utm_content=profile&utm_medium=member_android

PROFESSIONAL BACKGROUND:

- ❖ Teaching Experience till date: 2.4 Years
- ❖ Industrial Experience: 1 Year

AREA OF SPECIALIZATION:

- ❖ Additive Manufacturing
- ❖ Industrial Safety Engineering
- ❖ Operational Research

PATENTS PUBLISHED/GRANTED:

S.No	Patent Application Number	Title	Date	Status
1.	202541023280	LOW-COST STEAM-ASSISTED CHEMICAL VAPOR DEPOSITION (CVD) SYSTEM FOR THIN-FILM DEPOSITION	28.03.2025	Published
2.	202541023768	BIO-MECHANICAL ENERGY HARVESTING SYSTEM USING PIEZOELECTRIC MICROBIAL FUEL CELLS (PMFCs)	28.03.2025	Published
3.	202541025679	BIO-MECHANICAL LUNG ASSIST DEVICE WITH SELF-REGULATING OXYGENATION SYSTEM	28.03.2025	Published
4.	202541023770	ADAPTIVE THERMAL REGULATING FACADE FOR ENERGY-EFFICIENT BUILDINGS	28.03.2025	Published
5.	202541034401	SELF-HEALING CONCRETE USING NANOBOTS FOR STRUCTURAL DURABILITY	09.05.2025	Published
6.	202541036610	BIODEGRADABLE PLASTIC COMPOSITION USING CRAB SHELL POWDER (CHITOSAN) FOR SUSTAINABLE PACKAGING	09.05.2025	Published
7.	202541038352	BIO-MECHANICAL ARTIFICIAL MUSCLE SYSTEM USING SHAPE MEMORY ALLOYS AND BIO-GEL ACTUATORS	16.05.2025	Published
8.	202541045381	AI-OPTIMIZED DYNAMIC REFRIGERANT MIXING SYSTEM	30.05.2025	Published
9.	202541038346	EMPLOYING FLY ASH AS A NEW MATERIAL FOR ELICITING WATER POLLUTANTS	16.05.2025	Published
10.	202541035152	EFFICIENT PARALLEL BATTERY CHARGING IN ELECTRIC VEHICLES USING SERIAL-TO-PARALLEL SHIFT REGISTER	09.05.2025	Published
11.	202541036418	3D Printed Thermoplastic polymer shredder blade	09.05.2025	Published
12.	202541036419	ADVANCED WINDSHIELD WITH ENHANCED OPTICAL AND ENVIRONMENTAL PERFORMANCE	09.05.2025	Published
13.	202541036614	PROCESS FOR SYNTHESIZING HYBRID METAL-POLYMER COMPOSITES WITH GRADIENT MECHANICAL PROPERTIES FOR LOAD-ADAPTIVE STRUCTURES	09.05.2025	Published
14.	202541049226	EFFICIENT RECYCLING PROCESS FOR HIGH-PERFORMANCE THERMOPLASTICS	06.06.2025	Published
15.	202541073924	A METHOD FOR ENHANCED INTERLAYER ADHESION IN FDM 3D PRINTING USING DYNAMIC THERMAL ZONING	22.08.2025	Published
16.	202541073927	PROCESS FOR FABRICATING MULTI-MATERIAL GRADIENT STRUCTURES VIA MODIFIED NOZZLE SWITCHING IN FDM PRINTERS	22.08.2025	Published

17.	202541073929	AN ECO-FRIENDLY FDM PRINTING PROCESS USING BIODEGRADABLE COMPOSITE FILAMENTS WITH OPTIMIZED COOLING CYCLES	22.08.2025	Published
18.	202541075019	METHOD OF REAL-TIME CORRECTION OF WARPAGE IN FDM 3D PRINTING USING FEEDBACK-CONTROLLED HEATED BUILD PLATES	22.08.2025	Published
19.	202541075020	A PROCESS FOR IN-SITU REINFORCEMENT OF POLYMER FILAMENTS WITH NANO-FILLERS DURING FDM EXTRUSION	22.08.2025	Published
20.	418602-001	Mechanical Battery System (Design certificate)	31.05.2024	Published

COURSES CERTIFIED:

- ❖ PRO E
- ❖ NPTEL
- ❖ Elsevier Research Basics to End

ACHIEVEMENTS AND AWARDS:

- ❖ World's Top 2% Scientists – Stanford University, 2025
- ❖ Dr.A.P.J Abdul Kalam Award by VIT University, 2023
- ❖ Raman Research Award by VIT University,2022
- ❖ Established Research center for Multidisciplinary domain.
- ❖ Established International professional Association-CIRA
- ❖ 10+ One day workshop Organized
- ❖ 10+ Events organized
- ❖ Promoted entrepreneurship and the outcome 50+ student's starts their business under the MSME scheme.
- ❖ Developed the Policy frame work for research institute/centre

PROFESSIONAL MEMBERSHIPS:

- Indian Institute of Green Engineers (IGEN)
- Asian Research Association

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