

**S. J. VIJAY**

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 Karunya Institute of Technology and Sciences  
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**RESEARCH INTERESTS**

Additive manufacturing - process and technology development, Friction stir welding and allied processes - process and technology development, Composite materials for electrical applications, Carbon nanomaterials for electronic applications.

**EXPERIENCE**

Professor, Mechanical Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2021 - present  
 Associate Professor, Mechanical Engineering, Karunya Institute of Technology and Sciences, India, 2018 - 2021  
 Post-doctoral Fellow, Institute of Carbon Technology, Jeonju University, South Korea, 2016-2017  
 Assistant Professor, Mechanical Engineering, Karunya Institute of Technology and Sciences, India, 2011 - 2018  
 Senior Lecturer, Mechanical Engineering, Karunya Institute of Technology and Sciences, India, 2008 - 2011  
 Lecturer, Mechanical Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2005 - 2008

**RESEARCH PROFILES**

1	Google Scholar Profile	<a href="https://scholar.google.com/citations?hl=en&amp;user=cXlfzfQAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=cXlfzfQAAAAJ</a>
2	Scopus Profile	<a href="https://www.scopus.com/authid/detail.uri?authorId=55214232600">https://www.scopus.com/authid/detail.uri?authorId=55214232600</a>
3	LinkedIn Profile	<a href="https://www.linkedin.com/in/s-j-vijay-6a26294a/">https://www.linkedin.com/in/s-j-vijay-6a26294a/</a>

**PATENTS**

1	Brushless DC motor core using aluminum metal matrix hybrid nano-composite, International Patent, PCT/KR2018/014701, Published in October 2018
2	Brushless DC motor core using aluminum metal matrix hybrid nano-composite, Korean Patent, 10-2018-0147555KR, Published in October 2018
3	PAN-Fe <sub>2</sub> O <sub>3</sub> magnetic composites and manufacturing method thereof, Korean Patent, 10-2018-0170239KR, Published in October 2018
4	A Friction Stir Welding Device and the Method thereof, Indian Patent, 37/2020, 202041037266, Published in 2020
5	Intelligent Ergo-Computer Chair, Indian Patent, 03/2021, 202041046653, Published in 2021
6	An Artificial Intelligent Ergonomic Stand for Laptop, Indian Patent, 49/2020, 202041050701, Published in 2021
7	A Half Coil Manufactured from a Novel Composition for Brushless DC Motor Windings with Improved Efficiency, Indian Patent, Published in 2021

**RESEARCH PROJECTS**

#	Title of the project	Funding Agency	Amount (Rs.)	Year
1	Friction stir welding of aluminum matrix composites	NRB	62.5 Lakhs	2013-2015
2	Metal matrix foam for armor application	CVRDE	22.0 Lakhs	2018-2020

**SUMMARY OF INTERNATIONAL JOURNAL & CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]**

Year	International Journal Publications	International Conference Publications	National Conference publications	Cumulative Impact Factor	Scopus Citations	Google Scholar Citations	h-index
2010 - 2021	58	40	1	115	1118	1508	15

**EDITORIAL BOARD MEMBER:** S N Applied Science Journal, Springer, 2019- present

**EDUCATION**

Degree	Branch/ Specialization	University	Class	Mode	Month & Year of Passing
Ph.D.,	Mechanical Engineering	Anna University	Commendable	Part Time	June 2014
M.E.,	CAD/CAM	Anna University	Distinction	Full Time	May 2005
B.E.,	Production Engineering	Bharathiar University	First Class	Full Time	May 2002

**TEACHING INTERESTS**

Additive Manufacturing, Manufacturing Processes, Materials Science and Engineering.

**RESEARCH GUIDANCE**

<b>Research guidance as supervisor</b>	<b>Completed</b>	<b>Ongoing</b>
Doctor of Philosophy - PhD Thesis advising	2	4
Master of Engineering - Master's Thesis advising	12	--