



SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC 'A+' | ISO 21001 : 2018 (EOMS) Certified by BIS and NIRF ranked institution
Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in



DEPARTMENT OF MECHANICAL ENGINEERING

Name : **Dr.K.Palanikumar**

Designation : **Senior Professor**

Email : palanikumar@sairamit.edu.in

Qualification : M.E., Ph.D., FIE

Specialization : Mechanical / Manufacturing Engineering

Research Interest : Composite Materials, Processing, Manufacturing, Materials.

Experience in years : **Teaching** UG PG **Industry**

No. of Workshop/Conferences/

FDP / Webinar attended : Workshop & Webinar Conferences FDP

No. of Workshop/Conferences/

FDP/ Webinar Organized : Workshop & Webinar Conferences FDP



Professional Membership	Life Member, Indian Institute of Metals	#57767	Since Aug, 2019
	Life Member-Senior Fellow, The Society of Innovative Educationalist & Scientific Research Professional , Chennai	LM17181965	Since March, 2019
	Member, American Society for Mechanical Engineers (ASME) , USA.	000007072846	Since 8 years
	Chartered Engineer (India), The Institution of Engineers , India	F-116936-6	March 2012
	Fellow Member, The Institution of Engineers , India	F-116936-6	March 2012
	Life Member, Indian Welding society .	L00737	March 2008
	Life Member, Tribology society of India .	LM3707	April 2007
	Life Member, Indian Society for Non-Destructive Testing and Evaluation .	LM6684 CH	Feb 2004
	Fellow Member, Indian Institution of Production Engineers (IPE)	SF2108	Feb 2004
	Life Member, Indian society for Technical Education	LM 23708	Mar 1997
	Life Member, Indian Institute of Metals	57767	August 2019
	Senior Member, Computer Society of India	01164293	2012
Publications	National : 34		
	International: 343		
	Book : 22		

Research Funded Projects	18
Consultancy	18
Patents	Granted : 7 , Published : 17
Academic Achievements	<

	8.	World top 1% Peer reviewer  Top reviewers for Engineering - September 2017	 Publons Reviews, Web of Science group.	2017
	9.	Certified Sentinel of Science Award Recipient - As one of the Top 10 percent of Researchers Contributing to the peer review of the field of Engineering	 Publons Reviews, Web of Science group.	
	10	Best Principal Award	The Society for Educational and Entrepreneurship Development (SEED)	2017
	11	Chairman/ Fellow	The Institution of Engineers (India)- Kanchepuram Local Centre	2020
	12	National Executive Member	Indian Society for Technical Education	2020
	13	Executive Committee Member	Computer Society of India - Kanchepuram Local Centre	2020
	15	Outstanding Reviewer Award	Elsevier Journal - Measurement In cooperation with International Measurement Confederation	2016
	16	Special paper presentation by National Board of Accreditation	National Board of Accreditation	2013
	17	Best Academic Researcher Award	ASDF Global Awards, Techno Forum Group, Pondicherry, India.	2013
	18	Best Researcher Award	Association of Scientist, Developer and Faculties	2012
	19	Received Best paper award	YMCA University, Faridabad	2012
	20	Best Faculty Award	Nehru Group of Institutions	2012
	21	Best Teacher award	Sathyabama University	2008
	22	Best Teacher award	Sathyabama University	2004
	23	Best Technical paper in R&D	Journal of Non-Destructive Testing	2003
	24	President	MOE's Institution Innovation Council (IIC)	2018
	25	Coordinator	DST Sponsored IEDC	2015
	26	Fellow Member	The Institution of Engineers	2012
	27	Chartered Engineer (India),	The Institution of Engineers	2012
	16	Fellow Member	Indian Institution of Production Engineers (IIPe)	2004
	17	Outstanding Reviewer Award	Elsevier Journal - Measurement In cooperation with International Measurement Confederation.	2016
	18	Special paper presentation by National Board of Accreditation	National Board of Accreditation	2013
	19	Best Academic Researcher Award	ASDF Global Awards, Techno Forum Group, Pondicherry, India.	2013
	20	Best Researcher Award	Association of Scientist, Developer and Faculties	2012
	22	Received Best paper award	YMCA University, Faridabad	2012
	23	Best Faculty Award	Nehru Group of Institutions	2012
	24	Best Teacher award	Sathyabama University	2008
	25	Best Teacher award	Sathyabama University	2004
	26	Best Technical paper in R&D	Journal of Non-Destructive Testing	2003
	27	Best Teacher award	Sathyabama University	2002
	28	Best Teacher award	Sathyabama Engineering college	1999
	29	University First Rank in M.E (Production Engineering)	Annamalai University	1996
	30	Certificate of Excellence in Annamalai University Golden Jubilee Exhibition	Annamalai University	1995

Any Other Information	JOURNAL EDITORIAL		
	S.No.	Position	Name
	5.	Associate Editor	Journal of Advances in Mechanical Engineering and Science (JAMES)
	4..	Associated Editor	Journal of Modern Manufacturing Technology
	3.	Editorial Board Member	International Journal of Design and Manufacturing Technology, Sathyabama University, Chennai, India.
	2.	International Editorial Review Board	The International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME), IGI-GLOBAL Publishers, USA
	1.	Associated Editor	The International Journal of Materials Forming and Machining Processes (IJMFMP), IGI-GLOBAL Publishers, USA.

RESEARCH FUNDED PROJECTS AND GRANDS

No.	Name of the Project	Funding agency	Fund Received	Duration	Start Sate	End Date	Grant No
18	CTE-ISTE Induction / Refresher Programme	AICTE-ISTE	3,000	5 Days	Dec, 2021	Dec, 2021	122/SSIT.Ch-44/AICTE-ISTE/Induction Refresher Prosrnam/ dated 23.09.2021
17.	novation and Entrepreneurship - technology Based entrepreneurship (CAM, CAD & PC Trouble Shooting)	T, Govt. of India.	30 lakhs	2 years	2020	2021	No09/ 73/2020/ NEB(TR) Letter dated 07.12.2020
16.	AICTE-ISTE Refresher programme on Teaching Learning Process	ISTE	3.00 Lakhs	Nov, 2020	14 th Dec 2020	Jan 2021	ISTE/ AICTE-ISTE FDP-1-351126476-2018-2019 letter dated 11.03.2020
15.	FDP on Smart and Phase changing materials	AICTE, New Delhi.	2.07 Lakhs	Nov'2020.	Phase01: 27/07/20 Phase 02: 14/09/20	01/08/20 19/09/20	Refno 34-65/ 68 /RIFD/STTP/Pol icy1/ 2018-2019
14.	International Conference on mechanical, manufacturing and Materials for sustainable Development.	AICTE, New Delhi.	5.00 Lakhs	August 2020	4/11/20	6/11/20	F-No.67-13/IDC/GOC/PO LICY4/ 2019-20
13	ite Element Analysis	Anna Universit y – Chennai	0 Lakhs	30,000/-	2019	----	F.No 23- / AU-CFD/ 079 / 2019-2020
12.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI, Gujarath	1.00 Lakhs	Mar,2018-Mar,2019	Mar 2018	Mar2019	EDII/DST/NIM AT/18-19/420

11.	skill development Program for unemployed youth	AICTE, New Delhi.	100 lakhs	Principal Investigator. 7,00,000/- lakhs	2018	2019	PMKVY/AICTE - PMKVY-1-0789/2018 Dated 23.08.2018
10	AICTE-ISTE Refresher programme on Teaching Learning Process	ISTE	3.00 Lakhs	May'2018.	21.05.2018	26.05.2018	ISTE/AICTE-ISTEFDP-1-3325466791/2018 Dt.12.03.2018
9.	FDP on Biodegradable composites: Processing and applications	AICTE, New Delhi.	7.00 Lakhs	Oct-Nov'2017.	20/10/2017	02/11/2017	F.No6-131/RIFD/FDP/POLICY-1/2016-17
8.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI, Gujarat	0.40 Lakhs	Mar,2017-Mar,2018	Mar 2017	Mar 2018	EDII/DST/NIMAT/17-18/310
7.	DST-NIMAT Project- Entrepreneurship awareness camp, Technical Education Development Programme and Faculty Development Programme.	DST-EDI, Gujarat India.	7.5 lakhs	April 2016 – Mar 2017.	Apr 2016	Mar 2017	EDII/DST/NIMAT/16-17/220
6.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI, Gujarat, India	0.60 Lakhs	Mar,2015-Mar,2016	Mar 2015	Mar 2016	EDII/DST/NIMAT/15-16/112
5.	Innovation and Entrepreneur Development Centre.	DST, Govt. of India.	47.00 Lakhs	2015-05 to 2020-07	Mar 2015	Mar 2021	Grant number: 11/03/2015 NEB©, 11/03/2015 NEB(G) Dated 28 May 2015.
4.	FDP on Processing and Characterization of composite materials including natural fiber reinforced composites	AICTE, New Delhi	6.0 Lakhs	March 2014 – March 2015	19/03/2015	30/03/2015	F.No.33/RIFD/FDP/P(1)/2014-15 Dt. 18.11.2014
3.	Staff Development Programme on Artificial Intelligence with AI	AICTE	7.0 Lakhs	September 2011	15/09/2011	27/09/2011	f.No.38/RIFD/FDP/P(1)/2011-12
2.	Development of Computer Integrated Manufacturing	AICTE	10.00 Lakhs	September 2011	21/09/2011	March 2012	f.No.130/RIFD/FDP/P(1)/2011-12

	System						
1.	Short Term Training Programme on Latest Trends in Manufacturing for Global Competitiveness- A Changing Trend approach with case studies	ISTE	2.0 Lakhs	December 2004	05/12/2004	19/12/2004	Ref.no 3-16/5 /RIFD/STTP/Policy1/ 2004-2005

CONSULTANCY

Title of Industrial based Work	Client	Period
Tool Design	S.A. International Limited, Government of Tamilnadu undertaking-Worked as a consultant for tool design course on Part-time basis.	2001-2003
Tool design	Karthick Industries, Chennai and Sathyabama University Offer consultancy for Tool design and earned more than 1 lakh as charges.	2001-2004
Studies on Machining characteristics of GFRP Composites	<u>Strategic Composites, Chennai</u> The materials and other requirement for carryout the Ph.D work is provided by the above company and the findings are included in their Project	2001-2004
Effect of Nano modified polyester resin on hybrid Sandwich laminates	Paper Published in Elsevier- Private patent bending	2013-Present
Composite material substitute for conventional materials	Super fiber Glass industries	2012
Natural fiber composite mudguard for automobile	Private	2013-present
Design of Composite materials Helmet for firefighting equipment	Revo Technologies and Enterprises -consultancy amount - Rs 2,00,000/-	2020- Present
Design of Helmet for Autism People	Revo Technologies and Enterprises consultancy amount - Rs 1,80,000/-	2020- Present
Design of Helmet for Autism People	AMS Constructions - consultancy amount – Rs 2,30,000/-	2019 -2020
Design and Analysis of Composite Materials	CADDAM Technologies - consultancy amount – Rs 50,000/-	2019-2020
An Authentication Slip Procurement System For A Public Transport Vehicle	Revo Technologies and Enterprises Rs 50,000/-	2019-2020
Woven Aloe vera Sisal Kenaf Fibre Epoxy composites for Corrugated Roof sheet	Revo Technologies and Enterprises Rs 1,50,000/-	2019-2020
A Multi Layered Natural Fiber Reinforced Composite Sheet Laminate	Super fiber Glass industries Rs 1,50,000/-	2019-2020
A Durable Multi Layered Protective cover enclosing the Head and Neck of firefighters	Super fiber Glass industries Rs 80,000/-	2018-2019

A fibre reinforced hybrid polymer composite protective mechanism for the head	Revo Technologies and Enterprises Rs 80,000/-	2018-2019
Development of composite material for high loading environment	Super fiber Glass industries Rs 60,000/-	2018-2019
Development of composite material with High strength	Minmax Technologies Rs 45,000/-	2018-2019
Design of Composite materials Helmet for firefighting equipment	Super fiber Glass industries -consultancy amount - Rs 2,00,000/-	2020- Present

DETAIL OF PATENTS (Total Patents 21; Granted: 7)

1. GRANTED PATENTS

S. No.	Application No	Applicants	Title	Application Date	Application Status
1.	Design no. 337058-001	K. Palanikumar	Protective Head wear for Autism Patients with LED Light	31/12/2020	Granted on 21/01/2021
2.	Design no. 33/200-001	K. Palanikumar	Protective Head wear for Autism Patients	05/01/2021	Granted on 03/02/2021
3.	20194101214 1	Dr.K.Palanikumar Dr. V.Brindha Devi P.Sharmila Neeraja.S Pavitra.P Queency Leena Sawyer	Wireless security camera for stalker and threat identification	28/03/2019	Granted on 09/04/2021
4.	20164101280 9	A. Shadrachjeya sekar K PalaniKumar	Woven Aloe vera/ Sisal/Kenaf Fibre Epoxy composites for Corrugated Roof sheet	01.06.2016	Granted on 30/06/2021
5.	20174101089 3	K.Palanikumar T.Gowshik S.Balaji R.satish GrandheVenkata Karthik S.AiswaryaDevi R.M.Asha	A cattail fiber activated charcoal cartridge for the filtration and removal of the pah from the aque	28/03/2017	Granted on 29/07/2020 Awaiting NBA approval.
6	20174102800 2	1. K.Palanikumar 2. T.Srinivasan 3.E.Thamizhmaran 4.S.Rahavendhor 5.B. Abhijeeth 6 .S.Solomon Jaisingh	An automatic system and method for the detecting and arresting of the LPG spillage from the gas stove	07/08/2017	Granted on 27/10/2021

2. PUBLISHED PATENTS

S. No.	Application No	Applicants	Title	Application Date	Application Status
17.	202141029314	1. Dr.K.Palanikumar 2. Dr.B.Sreedevi 3 .P.S. Sudharshan 4 .B. Krishna Moorthy 5 .Dr.Karel L Sterckx	VLC Transceivers For Smart Museums	30/06/2021	Published 09/07/2021
16	202141026318	1. K.Palanikumar 2. G.Shanmugasundar 3. V. Brindha devi 4. S. Meganathan 5. G. Fenneth mores 6. S. Jayachandran 7. V.d. Rathnavel subramanian 8. R. Rajagopalan 9. M. Dharanidharan 10. D.Vishwa	An Integrated Farming Equipment With IOT Control & Nbsp;Mo Dule And Photovoltaic Arrangement	14/06/2021	Published 25/06/2021
15	202041051703	1.A.Ponmalar 2. K.Palanikumar 3.S.Priyanka 4.G.Nokudaiyaval 5.M.Saran	Auto Navigation Drone System	27/11/2020	Published 11/12/2020
14	202041045084	1. Vijayaraja L 2. Dhanasekar R 3. K. Palanikumar 4. Dhinakaran M.S 5. Dinesh kumar R 6.JoahnasMathewSaji 7 .Vijay S	A device and method for assisting in self- learning of the braille language to visually impaired end users	16/10/2020	Published 30/10/2020
13.	202041044652	1 .G.Shanmugasundar 2. K. Palanikumar 3.Anooj.M 4.Maniponraja.H 5.Jayant.M 6.Yokeshkrishna.P	An automatized load carrying electric vehicle with custom path navigation	14/10/2020	Published 30/10/2020
12.	202041042710	1.G.Saravanan 2. K.Palanikumar 3.Hrini Karthik 4.M.Unashalini 5.V.Janani 6.B.Uivashini	E-glove	01/10/2020	Published 09/10/2020
11	201941008408	1. Dr. K.Palanikumar 2. SharmilaP	An authentication slip procurement system for a	05/03/2019	Published 17/05/2019

		3. SkandaGurunathan 4. S.Vivekanandan 5. ShankarT 6. AravindG	public transport vehicle		
10	2018410262 60	1. K.Palanikumar 2.K.C.Suresh 3.B.Krishnamoorthy	A sign language translator glove	13/07/2018	Published 20/07/2018
9	2018410254 68	1. K.Palanikumar 2. G.Shanmugasundar 3. Tanush.H.Bhaskar 4. N.Kishore 5. S.A.Vetriganesh 6. Anisshkhaan.i	An exo arm frame structure utilizing electrical actuators for arm rehabilitation and effortless load	09/07/2018	Published 13/07/2018
8	201841016 343	1. K.Palanikumar 2. B. Sreedevi 3. P. Navaneeth 4. H.Akshay 5. M. Nirmalraj 6. S. Athreya	Mind controlled gaming for the differently abled	01/05/2018	Published 11/05/2018
7	201741042 997	1. Dr. K.Palanikumar 2.G.Shanmugasundar 3.Tanush.'H.Bhaskar 4.N.Kishore 5.AnisshKhaan.I 6. S.A.VetriGanesh	Exo Skeleton Arm using Block and Tackle Mechanism	30/11/2017	Published 08/12/2017
6	201741027 560	1. K.Palanikumar 2. R.Nagammmainachu 3.V.Kayalvizhi 4.S.Mythili 5.S.Malathy 6.S.Rajarajan	A system and a method for toggling the operating state of electrical appliances through user gesture	03/08/2017	Published 11/08/2017
5	201741016 072	1. Dr.K.Palanikumar 2. K.R.Bharat	A fibre reinforced hybrid polymer composite protective mechanism for the head	08/05/2017	Published 19/05/2017
4	201741012 896	1. K.Palanikumar, 2. J. Ilakkiya, 3. A.Subathra, 4. S. Ragavi,	Phoneme Encryptor	11/04/2017	Published 21/04/2017

3	201741011 384	1 .K.Palanikumar 2 . Arvinth.R 3. Shubham Shekhar 4. Venkatesan.M 5. Vignesh.A 6. L.Vijayaraja	Egensor	30/03/2017	Published 21/04/2017
2	2016410440 18	1.K.Palanikumar 2.K.R.Bharat	A durable multi- layered protective cover enclosing the head and neck of the firefighters	23/12/2016	Published 3/1/2017
1	2016410366 36	1. K. Palani kumar 2 .S. Dilip kumar 3 .C. Amarnath 4 .C. Rakesh	A multi-layered natural fiber reinforced composite sheet laminate	26/10/2016	11/11/2016

RESEARCH SCHOLARS SUCCESSFULLY GUIDED (Ph.D): Ph.D Completed under the Guidance (Doctor of Philosophy in Engineering)

Sl. No	Name of the Scholar	Title and university	Date of Completion
1.	Dr. M. Kathirvel	Experimental Studies and Analysis on Machining Characteristics of Hybrid Metal Matrix (A6061 Al +SiC+ Graphite ©) Composites.Sathyabama University,	April 2011
2.	Dr. S.Prakash	Experimental Investigation and Analysis on Drilling Characteristics of Wood Fiber Board Composites. Sathyabama University, IT Highway, Chennai -119.	May 2011
3.	Dr.V.K.Bupesh Raja	Experimental Investigation on Welding Characteristics of Ti6Al4V Alloy using GTAW and LBW Technique. Sathyabama University, Chennai -119.	August 2011
4.	Dr.T. Rajmohan	Drilling Characteristics of hybrid metal matrix composites.. Sri Chandrasekarendra Saraswathi Viswa Mahavidyalaya, Kancheepuram, India.	May 2013.
5.	Dr.T.Sasimurugan	Some studies on machining characteristics of Hybrid (AA6061+SiC+ Al ₂ O ₃) aluminium metal matrix composites, Sathyabama University, Chennai -119	May 2013
6.	Dr.AtafHussain (Joint Supervisor)	Modeling, analysis and optimization of machining Characteristics of GFRP composites, Jawaharlal Nehru Technological University, Anantapur.	Jan 2013
7.	Dr.K. Umanath	Studies on Mechanical and wear behavior of Al6061 alloy/SiCp/ Al ₂ O ₃ hybrid metal matrix composites, Bharath University, Chennai - 73.	Jan 2014
8.	Dr.T.N. Valarmathi	Studies on drilling of wood composite panels. Sathyabama University, IT Highway, Chennai -119.	April 2014
9.	Dr. M. Ramesh	Jawaharlal Nehru Technological University, Anantapur.	Dec' 2014
10.	Dr. S.T. Selvamani	Some studies on Friction welding of carbon Steels	Dec' 2015
11.	Dr. Sadrach Jeyasekaran	Studies on Mechanical and Tribological characteristics of Natural fiber	April' 2017

		reinforced composites.	
12.	Dr. T. Srinivasan	Studies on drilling of thermoplastic composites	June' 2017
13.	Dr. Ashok Gandhi (Co-supervisor)	Tribological behavior of CNT reinforced thermoplastic composites	Aug, 2017
14.	Dr. MAJ. Bosco	Mechanical and machining characteristics of glass fiber Armour steel reinforced polymer composites.	Aug'2017.
15.	Dr.M. Venkatesan	Studies on Mechanical and wear characteristics of nano polymer and nano GFRP hybrid composites	Dec. 2018
16.	Dr.G. Ramya Devi	Studies on Mechanical and Machining Characteristics of Glass Fibre Reinforced PolyLaminate	June 2020
17.	Dr. Eaben Rajkumar S	Tribological and Drilling Studies of Al/B4C/Mica hybrid Metal Matrix Composites	Feb. 2021
18.	Dr. A. Srithar	Experimental Investigation On Machining Characteristics of AISI D2 Steel	Sep, 2021
19.	K. Vijayakumar	Studies on mechanical properties and vibration analysis of a novel caryota fiber reinforced Polymer composites	Sep, 2021
20.	K. Velavan	Studies On Mechanical, Wear And Drilling Characteristics Of AL-10% B4C- mica hybrid composites	Jan, 2022

Books Written

Basic Workshop Practice, ARS Publications, Tamilnadu, India, **2006**.

Basic Mechanical Engineering, ARS Publications, Tamilnadu, India. **2004**, .Included as reference book in **Anna University, Chennai Syllabus followed for all Engineering non-autonomous colleges in Tamilnadu**.

Book Chapters Published

- 20 **Palanikumar Kayaroganam**, Response Surface Methodology in Engineering Science, *Open access peer-reviewed Edited Volume, November 10th 2021, IntechOpen*.
- 19 **Kayaroganam Palanikumar**, Introductory Chapter: Response Surface Methodology in Engineering Science, *Open access peer-reviewed Edited Volume, November 10th 2021, IntechOpen*.
- 18 Valarmathi T.N., **Palanikumar K.**, Sekar S., Latha B. (2021) ANFIS and RSM Modelling Analysis on Surface Roughness of PB Composites in Drilling with HSS Drills. In: Palanikumar K., Natarajan E., Sengottuvelu R., Davim J.P. (eds) *Futuristic Trends in Intelligent Manufacturing. Materials Forming, Machining and Tribology*. Springer, Cham.
- 17 Natarajan E., **Palanikumar K.**, Ramesh S. (2021) Smart Manufacturing—A Lead Way to Sustainable Manufacturing. In: Palanikumar K., Natarajan E., Sengottuvelu R., Davim J.P. (eds) *Futuristic Trends in Intelligent Manufacturing. Materials Forming, Machining and Tribology*. Springer, Cham.

- 16 Silessh, Ashwin; **Palanikumar, K**; ,Mechanical Properties of Flax-Cotton Fiber Reinforced Polymer Composites,Green Composites,393-411, 2021
- 15 NRR Anbusagar, **K. PalaniKumar**, A Ponshanmugakumar, [Preparation and properties of nanopolymer advanced composites: A review](#), Polymer-based Nanocomposites for Energy and Environmental Applications, 27-73.
14. **K. Palanikumar** Glass Fiber Reinforced Composite materials: Book Chapter in " Composites in Helicopter industry" to be Published by Wood head Publications, UK -In Press.
13. N. R. R. Anbu Sagar, **K. Palanikumar**: *Development and Characterization of Nano Clay Reinforced Three-Phase Sandwich Composite Laminates*. Nanoclay Reinforced Polymer Composites, 01/2016: pages 357-391; ISBN: 978-981-10-1952-4, DOI:10.1007/978-981-10-1953-1_16
12. **K. Palanikumar**, T. Srinivasan, K. Rajagopal, J.P. Davim, *Machinability of Fibre-Reinforced Plastics*. Machinability of Fibre-Reinforced Plastics, 2015 edited by J. Paulo Davim, 06/2015: chapter Drilling of high impact Polystrene Materials: pages 163-176; Walter de Gruyter GmbH & Co KG.
11. **Kayaroganam Palanikumar**: *Application of response surface method and desirability function for the optimization of machining parameters of hybrid metal matrix (Al/SiC/Al2O3) composites*. Metal Matrix Composites, 2014 edited by Davim, J. Paulo, 06/2014: chapter 8: pages 179-200; Walter de Gruyter GmbH & Co KG., ISBN: 9783110315448, DOI:10.1515/9783110315448.179
10. **K.Palanikumar**, B.Latha, V.S.Senthilkumar J.PauloDavim Application of artificial neural network for the prediction of surface roughness in drilling GFRP composites, Materials Science Forum, Trans Tech publications, Switzerland DOI: 10.4028/www.scientific.net/MSF.766.21.
9. **K. Palanikumar**, J. Paulo Davim: *Electrical discharge machining: Study on machining characteristics of WC/Co composites*. Machining and Machine-Tools, 2013 edited by J. Paulo Davim, 05/2013: chapter Electrical discharge machining: study on machining characteristics of WC/Co composites: pages 135-168; Wood Head., DOI:10.1533/9780857092199.135
8. **K.Palanikumar**, B.Latha, J.PauloDavim, Application of Taguchi method with Grey fuzzy logic for the optimization of machining parameters in machining composites, Computational Methods for Optimizing Manufacturing Technology: 2012, Models and Techniques. IGI-GLOBAL Publishers, USA. DOI: 10.4018/978-1-4666-0128-4.ch009.
7. **Kayaroganam Palanikumar**: *Analyzing surface quality in machined composites*. Machining Technology for Composite Materials, Edited by H. Hocheng, 05/2012: chapter Analyzing surface quality in machined composites: pages 154-182; Wood Head., DOI:10.1533/9780857095145.1.154
6. T. Rajmohan, **K. Palanikumar**, G. Harish: *Surface Roughness Evaluation in Drilling Hybrid Metal Matrix Composites*. Emerging Trends in Science, Engineering and Technology, 01/2012: pages 325-332; , DOI:10.1007/978-81-322-1007-8_29
5. **K.Palanikumar**, S. Prakash, J. Paulo Davim: *Investigation of optimum parameters for multiple performance characteristics in drilling wood composites (MDF) using Grey-Taguchi method*. Wood and Wood Products,, 1 edited by Davim, J.P, 01/2012: chapter Chapter 4: pages 87-108; NOVA., ISBN: 978-1-62081-973-9
4. **K.Palanikumar**,T.Rajmohan,J.Paulo Davim,"Optimization of machining parameters for multiple performances in drilling hybrid composites using desirability-based approach",Chapter 8 (in press), in Davim, J.P (Ed.), Metal Matrix Composites, NOVA Publishers, New York, 2011, ISBN: 978-1-61209-771-8.
3. **K.Palanikumar**, T.Rajasekaran, J. Paulo Davim, "Modelling and analysis on wear behaviour of metal matrix composites", Chapter 7, (157-174) in Davim, J.P. (Ed.), Tribology of Composite Materials, NOVA Publishers, New York, 2010 ISBN: 978-1-61668-319-1
2. **K.Palanikumar**, J. Paulo Davim, "Application of fuzzy logic in manufacturing: a study on modelling of cutting force in turning GRFP composites", Chapter 7, (111-128) in Davim, J.P. (Ed.), Artificial Intelligence in Manufacturing: Research, NOVA Publishers, New York, 2010 ISBN: 978-1-60876-214-9
1. **Kayaroganam Palanikumar**, S. Prakash, C.V.Jayakumar, J. Paulo Davim: *"Analysis of delamination in drilling wood composite medium density fibre boards*. Drilling of Composite Materials, 2009 edited by J. Paulo Davim, 09/2009: chapter 7: pages 121-136; Nova., ISBN: 978-1-60741-163-5.

List of Publications:-

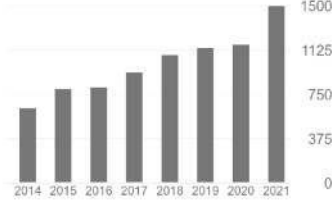


Prof.K. Palanikumar, Ph.D
 Professor and Principal, Sri Sairam Institute of Technology
 Verified email at sairamit.edu.in - [Homepage](#)
 Machining composites artificial intelligence statistical analysis

[FOLLOWING](#)

Cited by [VIEW ALL](#)

	All	Since 2016
Citations	9437	6649
h-index	52	43
i10-index	152	129



TITLE	CITED BY	YEAR
Mechanical property evaluation of sisal-jute-glass fiber reinforced polyester composites M Ramesh, K Palanikumar, KH Reddy Composites Part B: Engineering 48, 1-9	624	2013
Plant fibre based bio-composites: Sustainable and renewable green materials M Ramesh, K Palanikumar, KH Reddy Renewable and Sustainable Energy Reviews 79, 558-584	329	2017

This author profile is generated by Scopus Learn more

Palanikumar, Kayaroganam

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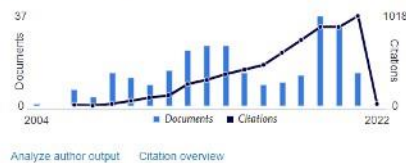
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Sl.No.	Title	Year
144	Chakravarthy V.V.K., Rajmohan T., Vijayan D., Palanikumar K., Sustainable Drilling of Nano SiC Reinforced Al Matrix Composites Using MQL and Cryogenic Cooling for Achieving the Better Surface Integrity, Silicon, 14, 4, 1787-1805	2022
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