



SAI RAM INSTITUTE OF TECHNOLOGY

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Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairamit.edu.in



MHRD'S Institute Innovation Council (IIC)

*extends a hearty welcome
to*

10.01.2019 Thursday

One Day WORKSHOP ON

“ Intellectual Property Rights (IPR) for Students & Faculty Members”



Date: 10th January 2019 | Time: 10:30 PM to 12:30 PM

Dr. K. PALANIKUMAR

Professor & Principal
Sri Sai Ram Institute of Technology
Chennai - 44.



Expert from Central

Ms. SHWETASREE MAJUMDER

Principal, FIDUS LAW CHAMBER

Date: 10th January 2019 | Time: 1:30 PM to 3:30 PM

Facebook Live session by MHRD's Innovation Cell

Venue: *Dr. Kalam Digital Library*

FACEBOOK: <https://www.facebook.com/mhrds.innovationcell>
MIC WEBSITE: www.mic.gov.in/live.htm

Dr. G. Shanmugasundar
IIC Coordinator

Dr. B. Sreedevi
Hackathon Coordinator

Dr. K. Palanikumar
Principal

Sai Prakash LeoMuthu
CEO



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MIC MHRD AKITE SIH

INSTITUTION INNOVATION COUNCIL (IIC)
MHRD, Government of India
Welcomes you for the
One Day WORKSHOP on

“ Intellectual Property Rights (IPR) for Students & Faculty Members ”

FACEBOOK: <https://www.facebook.com/sairamit>
IIC (MHRD) | www.mic.gov.in/index.html

Workshop on IPR for Students and Faculty Members

Schedule



From 10:30 AM to 12.30 PM By State Expert	
Timing	Topics
10:30 AM - 10:45 AM	History of Intellectual Property
10:45 AM - 11:00 AM	World Intellectual Property Organization: Roles & Functions
11:00 AM - 11:15 AM	Intellectual Property India Office: Roles & Functions
11:15 AM - 11:30 AM	How to file a Patent Application?
11:30 AM - 11:45 AM	How to file a Copyright Application?
11:45 AM - 12:00 PM	How to file a Trademark Application?
12:00 PM - 12:15 PM	How to file a Design Application?
12:15 PM - 12:30 PM	Scheme for Facilitating Start-ups Intellectual Property Protection

Facebook Live Session by Central expert (1:30 PM to 3:30 PM)	
Expert Profile: Ms. Shwetasree Majumder, Principal, Fidus Law Chamber	
Timing	Topics
1:30 PM - 1:40 PM	Introduction to IPR – IP is Everywhere
1:40 PM - 2:00 PM	Innovation & Patents
2:00 PM - 2:15 PM	Copyright & Related Rights
2:15 PM - 2:30 PM	Branding & Trademarks
2:30 PM - 2:45 PM	Industrial Designs
2:45 PM - 3:00 PM	Other IPs – Geographical Indications, Semiconductor Integrated Circuits Layout Design, Plant Variety, Trade Secrets
3:00 PM - 3:15 PM	Importance & Protection of IP – <i>Recognize and Respect your own IP and that of others'</i>
3:15 PM - 3:30 PM	Entrepreneurship & Digital Age

10th January, 2019

A one day workshop on Intellectual Property Rights for students and faculty members was conducted on January 10th 2019 by Sri Sai Ram Institute of Technology at Dr. Kalam Digital Library. The workshop was jointly organised by MHRD's s Institute Innovation Council. (IIC).

Dr. K. Palanikumar, Principal , Sri Sai Ram Institute of Technology delivered the forenoon session. The session started by 10.30 a.m with an introductory speech on History of Intellectual property. He briefed on the various roles and functions of the World Intellectual Property organization and Intellectual Property India office. Subsequently he explained about how to file a patent application. In addition he also explained how to file a copyright application, how to file a trademark application and finally how to file a design application with examples. The concluding topic was scheme for facilitating start-ups Intellectual Property protection. The session was very interactive with enthusiastic participation from students and faculty members.











MHRD'S Institute Innovation Council (IIC)

Offline Lecture - Feedback Form

Name of Program: *Ipr for students and faculty members*

Name of the Expert: *Dr. K. Palani Kumar*

Date & Time of Delivery: *10.1.2019*
10.30 am to 12.30 pm

1. Overall, how would you rate this presentation?				
<input type="checkbox"/> Poor	<input type="checkbox"/> Fair	<input type="checkbox"/> Good	<input checked="" type="checkbox"/> Very Good	<input type="checkbox"/> Excellent
2. How would you rate the effectiveness of the presenter in delivering the presentation?				
<input type="checkbox"/> Poor	<input type="checkbox"/> Fair	<input type="checkbox"/> Good	<input type="checkbox"/> Very Good	<input checked="" type="checkbox"/> Excellent
3. How would you rate the scope and depth of the presentation?				
<input type="checkbox"/> Poor	<input type="checkbox"/> Fair	<input type="checkbox"/> Good	<input checked="" type="checkbox"/> Very Good	<input type="checkbox"/> Excellent
4. How would you rate the usefulness of the presentation to your work?				
<input type="checkbox"/> Not useful	<input type="checkbox"/> Somewhat useful	<input checked="" type="checkbox"/> Very useful		
5. How would you rate the usefulness of the presentation's accompanying materials?				
<input type="checkbox"/> Did not use them	<input type="checkbox"/> Not useful	<input checked="" type="checkbox"/> Somewhat useful	<input type="checkbox"/> Very useful	
6. Would you be interested in additional content on this topic?				
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
7. If "yes" to question 6, what type of additional content would be helpful?				
<i>-Na-</i>				
Name: (optional)		<i>S. Divagar</i>		
Branch & Year: (optional)		<i>EEE & IIIrd year</i>		
Email: (optional)				
8. over all suggestion of the Program: <i>The program was good</i>				

Thank you for completing this evaluation.

PROFILE OF THE SPEAKER



Prof. Dr. K.PALANIKUMAR, M.E., Ph.D.,
Professor and Principal,
Sri Sai Ram Institute of Technology,
Chennai- 600 044, Tamilnadu, INDIA.
Ph: 91-44-22512444, 2251 2111 (O)
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Detailed BIO DATA OF the CO-ORDINATOR (1)



1. Name, Designation and Address of the nominee	Dr. K. PALANIKUMAR, Professor and Principal, Sri Sai Ram Institute of Technology, Sai Leo Nagar, Chennai – 600 044. Telephone (O): 044-22512111 (R) 044-22280226 Fax: +044-22512323 Email: palanikumar_k@yahoo.com ; palanikumar@sairamit.edu.in
2. Date of Birth	10.05.1968
3. Academic Qualifications and field of specialization	<ul style="list-style-type: none">• Post Doctoral work with Prof. J. Paulo Davim, University of Aveiro, Portugal• Ph.D. (Mechanical Engineering)• M. E., (Production Engineering)• A.M.I.E (Mechanical Engineering)• Post Diploma in Tool Design
1. Experience in Years;	Teaching: 25 years Other : 03 Research: 20 years

2. Membership in Professional bodies

Life Member, Indian society for Technical Education	LM 23708	Mar 1997
Member, American Society for Mechanical Engineers (ASME) , USA.	000007072846	Since 7 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 (IIPE)	SF2108	Feb 2004

3. Awards/Fellowship and patents received

Awards: 19
Fellowship: 2
Patents: 11

Awards: 19

No	Title	Year
19.	Publons peer review Awards 2018 , as one of the top 1% of peer reviewers in Materials Science.	Sep'2018
18.	Publons peer review Awards 2018 , as one of the top 1% of peer reviewers in Engineering.	Sep'2018
17.	Best principal Award from The Society for Educational and Entrepreneurship Development (SEED)	Sep' 2017
16.	Publons peer review Awards 2017 , as one of the top 1% of peer reviewers in Engineering.	Sep'2017
15.	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	Aug'2016
14.	Outstanding Reviewer Award from Elsevier Journal Measurement In cooperation with International Measurement Confederation	Aug 2016

- | | | |
|-----|---|------------|
| 13. | Maharashtra State National Award for Best Research work in Engineering and Technology for the Year 2013 by Indian Society for Technical Education | Dec 2013 |
| 12. | Special paper presentation by National Board of Accreditation , New Delhi. | Mar' 2014. |
| 11 | Best Academic Researcher Award by ASDF Global Awards, Techno Forum Group, Pondicherry, India. | Dec' 2014 |
| 10. | Best Researcher Award , Association of Scientist, Developer and Faculties | Dec 2013 |
| 9. | Received Best paper award from YMCA University, Faridabad | Dec 2012 |
| 8. | Best Faculty Award from Nehru Group of Institutions | Sep 2012 |
| 7. | Best Teacher award from Sathyabama University | Sep 2008 |
| 6. | Best Teacher award from Sathyabama University | Sep 2004 |
| 5. | Best Technical paper in R&D in Journal of Non-Destructive Testing , for the year 2002 | Dec 2003 |
| 4. | Best Teacher award from Sathyabama University | Sep 2002 |
| 3. | Best Teacher award from Sathyabama Engineering college | Sep 1999 |
| 2. | University First Rank in M.E (Production Engineering) | Dec 1996 |
| 1. | Certificate of Excellence in Annamalai University Golden Jubilee Exhibition -1995. | April 1996 |

Fellow: 2

Fellow Member, The Institution of Engineers , India	F-116936-6	March 2012
Fellow Member, Indian Institution of Production Engineers (IIPE),	SF2108,	Feb 2004

Patents: 11

Sl.No.	Title of the Invention	Date and Year of Submission	Patent Number	Status
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11	Mind controlled gaming for the differently abled	01.05.2018	201841016343	Published
10	Exo Skeleton Arm Using Block and Tackle Mechanism	30.11.2017	201741042997	Published
9	An automatic system and method for the detecting and arresting of the LPG spillage from the gas stoves	07.08.2017	<u>201741028002</u>	Published
8	A system and a method for toggling the operating state of electrical appliances through user gesture	03.08.2017	<u>201741027560</u>	Published
7	A fibre reinforced hybrid polymer composite protective mechanism for the head	08.05.2017	<u>201741016072</u>	Published
6	Phoneme Encryptor	11.04.2017	<u>201741012896</u>	Published
5	Egensor	30.03.2017	201741011384	Published
4	A Cattail Fiber Activated Charcoal Cartridge for the Filtration and Removal of the PAH from the AQUE	07.04.2017	201741010893	Published
3	A Durable Multi-Layered Protective cover enclosing the Head and Neck of the firefighters	30.12.2016	201641044018	Published
2	A Multi-Layered Natural Fiber Reinforced Composite Sheet Laminate	11.11.2016	201641036636	Published
1	Woven Aloe vera/Sisal/Kenaf Fibre Epoxy composites for Corrugated Roof sheet	17.06.2016	201641012809	Published
4. Number of Projects guided		<ul style="list-style-type: none"> ➤ B.E., - 50 ➤ M.E., - 40 ➤ Ph.D – 15 completed, 1 submitted 		
Ph.D – 15 completed, 1 submitted				

S.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, IT Highway, Chennai -119.	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, IT Highway, 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, IT Highway, Chennai -119	May 2013
6.	Dr.AltafHussain (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 reinforced composites.	April' 2017
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. Venkatesan	Mechanical and wear characteristics of nano reinforced composites	Nov' 2017

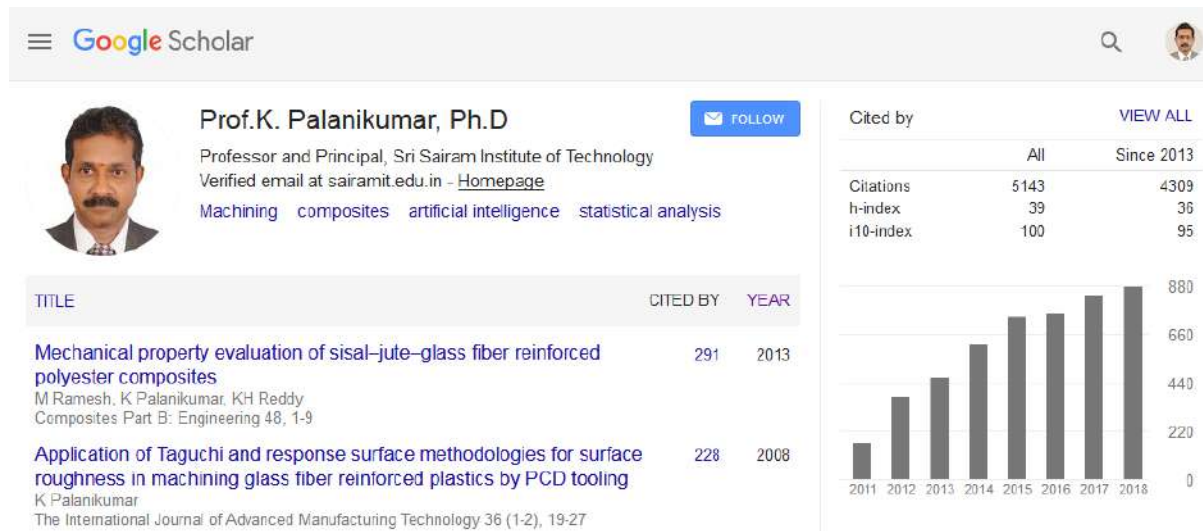
5. Research Publications

Sponsoring Agency:

Sri Sai Ram Institute of Technology, Chennai-600 044

University of Aveiro, Portugal.

Publications for the past 5 years



2018

- L Natrayan, M Senthilkumar, **K Palanikumar**, [Optimization of squeeze cast process parameters on mechanical properties of Al₂O₃/SiC reinforced hybrid metal matrix composites using taguchi technique](#), Materials Research Express
- M Vigneshwar, ST Selvamani, P Hariprasath, **K. PalaniKumar**, [Analysis of Mechanical, Metallurgical and Fatigue Behavior of Friction Welded AA6061-AA2024 Dissimilar Aluminum Alloys in Optimized Condition](#), Materials Today: Proceedings 5 (2), 7853-7863.
- ST Selvamani, M Vigneshwar, **K. PalaniKumar**, D Jayaperumal, [The corrosion behavior of fully deformed zone of friction welded low chromium plain carbon steel joints in optimized condition](#) Journal of the Brazilian Society of Mechanical Sciences and Engineering.
- K Prabhakar, S Debnath, R Ganesan, **K. PalaniKumar**, [A review of mechanical and tribological behaviour of polymer composite materials](#), IOP Conference Series: Materials Science and Engineering 344 (1), 012015
- G Anand, N Alagumurthi, R Elansezhian, **K. PalaniKumar**, [Investigation of drilling parameters on hybrid polymer composites using grey relational analysis, regression, fuzzy logic, and ANN models](#), Journal of the Brazilian Society of Mechanical Sciences and Engineering.
- G Anand, N Alagumurthi, **K. PalaniKumar**, N Venkateshwaran, [Influence of drilling process parameters on hybrid vinyl ester composite](#), Materials and Manufacturing Processes, 1-7.
- 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.

2017

- M. Ramesh, **K. PalaniKumar**, K. Hemachandra Reddy: *Plant fibre based bio-composites: Sustainable and renewable green materials*. Renewable and Sustainable Energy Reviews 11/2017; 79:558-584., DOI:10.1016/j.rser.2017.05.094
- K R Bharat, S Abhishek, **K Palanikumar**: *Mechanical Property Analysis on Sandwich Structured Hybrid Composite Made from Natural Fibre, Glass Fibre and Ceramic Fibre Wool Reinforced with Epoxy Resin*. 06/2017; 205(1):012015., DOI:10.1088/1757-899X/205/1/012015
- G. Ramya Devi, **K. PalaniKumar**: *Evaluation of Thrust force in Drilling Woven roving Glass fibre reinforced Aluminium Sandwich laminates with TiAlN coated drill using Taguchi analysis*. 05/2017; 197(1):012055., DOI:10.1088/1757-899X/197/1/012055, IOP Materials science & Engineering 197 (1), 012-055.
- N R R. Anbusagar, **K. PalaniKumar**: *Nanoclay Addition and Core Materials Effect on Impact and Damage Tolerance Capability of Glass Fiber Skin Sandwich Laminates*. Silicon 04/2017;., DOI:10.1007/s12633-016-9529-2, 9(48)
- ST Selvamani, S Premkumar, M Vigneshwar, P Hariprasath, **K Palanikumar**, Influence of carbon nano tubes on mechanical, metallurgical and tribological behavior of magnesium nanocomposites, Journal of Magnesium and Alloys, doi.org/10.1016/j.jma.2017.08.006
- M. Mudhukrishnan, P. Hariharan, **K. PalaniKumar**, B. Latha: *Tool Materials Influence on Surface Roughness and Oversize in Machining Glass Fiber Reinforced Polypropylene (GFR-PP) Composites*. Materials and Manufacturing Processes 08/2016;., DOI:10.1080/10426914.2016.1221098, 32(9), 988-977
- T Srinivasan, **K Palanikumar**, K Rajagopal, B Latha: *Optimization of Delamination Factor in Drilling GFR-Polypropylene Composites*. Materials and Manufacturing Processes 02/2016; 32(2)., DOI:10.1080/10426914.2016.1151038, 32(2), 226-233
- T. Rajmohan, S. D. Sathishkumar, **K. PalaniKumar**: *Effect of Nano Particle Filled Lubricant in Turning of AISI 316 L Stainless Steel (SS)*. Particulate Science And Technology 02/2016;., DOI:10.1080/02726351.2016.1146812, 35(2) ,201-208.

2016

- N. R. R. Anbusagar, **K. PalaniKumar**: *Dynamic Analysis of OMMT Nanoparticle Reinforced Polyester Resin GFR-PS Foam Sandwich Laminates*. Indian Journal of Science and Technology 02/2017; 9(48)., DOI:10.17485/ijst/2016/v9i48/101985.
- K. PalaniKumar**, T. Srinivasan, Ashwin Sailesh, K. Rajagopal: *Strength Validation and Morphological studies of Glass Fiber Reinforced with Polypropylene Matrix (GFR/PP) Composites*. 12/2016;., DOI:10.12783/dtees/seeie2016/4659
- Syed Altaf Hussain, V. Pandurangadu, **K. PalaniKumar**: *Optimization of Mechanical Properties of Green Coconut Fiber / HDPE Composites*. DOI:10.14257/ijast.2016.92.01
- K. PalaniKumar**, M. Ramesh, K. Hemachandra Reddy: *Experimental Investigation on the Mechanical Properties of Green Hybrid Sisal and Glass Fiber Reinforced Polymer Composites*. Journal of Natural Fibers 05/2016; 13(3):321-331., DOI:10.1080/15440478.2015.1029192
- M. Ramesh, **K. PalaniKumar**, K. Hemachandra Reddy: *Evaluation of Mechanical and Interfacial*

Properties of Sisal/Jute/Glass Hybrid Fiber Reinforced Polymer Composites. Transactions of the Indian Institute of Metals 03/2016; 69(10)., DOI:10.1007/s12666-016-0844-5

S. Dhandapani, T. Rajmohan, **K. PalaniKumar**, Charan Mugunthan: *Preparation and Characterization of Hybrid Aluminum Matrix Composites Reinforced with MWCNT Using Powder Metallurgy Process*. 11/2015; 813-814:620-624., DOI:10.4028/www.scientific.net/AMM.813-814.620

Manickam Ramesh, **Kayaroganam Palanikumar**, Konireddy Hemachandra Reddy: *Influence of fiber orientation and fiber content on properties of sisal-jute-glass fiber-reinforced polyester composites*. Journal of Applied Polymer Science 10/2015; 133(6)., DOI:10.1002/app.42968

S. Vijaya Bhaskar, T. Rajmohan, **K. PalaniKumar**, B. Bharath Ganesh Kumar: *Synthesis and Characterization of Multi Wall Carbon Nanotubes (MWCNT) Reinforced Sintered Magnesium Matrix Composites*. 05/2015;., DOI:10.1007/s40033-015-0074-8

K. PalaniKumar, T. Srinivasan, K. Rajagopal, B. Latha: *Thrust Force Analysis in Drilling Glass Fiber Reinforced/Polypropylene (GFR/PP) Composites*. Materials and Manufacturing Processes 10/2014; 31(5):1-6., DOI:10.1080/10426914.2014.961478

2015

Uthirapathy Tamilarasan, Loganathan Karunamoorthy, **Kayaroganam Palanikumar**: *Mechanical Properties Evaluation of the Carbon Fibre Reinforced Aluminium Sandwich Composites*. 10/2015; 18(5):1029-1037., DOI:10.1590/1516-1439.017215

M. Venkatesan, **K. PalaniKumar**, S. Rajendra Boopathy: *Comparison of the Wear Properties of Polymer Composites Having CNT With and Without Glass Fiber Reinforcement*. Transactions of the Indian Institute of Metals 08/2015; 68(S1):91-97., DOI:10.1007/s12666-015-0613-x

T. Rajmohan, S.D. Sathishkumar, **K. PalaniKumar**: *Experimental Investigation of Machining Parameters during Turning of AISI 316L Stainless Steel Using Nano Cutting Environment*. 08/2015; 787:361-365., DOI:10.4028/www.scientific.net/AMM.787.361

Nrr. Anbusagar, **K. PalaniKumar**, P.k. Giridharan: *Study of sandwich effect on nanoclay modified polyester resin GFR face sheet laminates*. Composite Structures 07/2015; 125., DOI:10.1016/j.compstruct.2015.02.016

S Dhandapani, Thiagarajan Rajmohan, **K Palanikumar**, M Charan: *Synthesis and Characterization of Dual Particle (MWCT+ B4C) Reinforced Sintered Hybrid Aluminium Matrix Composites*. Particulate Science And Technology 07/2015; 34(3)., DOI:10.1080/02726351.2015.1069431

Ashwin Sailesh, **K. PalaniKumar**, R. Arunkumar, V. Nisanth, R. Vignesh, A. Sabarish, K. Rajeshkannan: *Predicting the Best Tensile Strength of Banana-Bamboo-Glass Fiber Reinforced Natural Fiber Composites Using Taguchi Method*. Applied Mechanics and Materials 06/2015; 766-767:116-121., DOI:10.4028/www.scientific.net/AMM.766-767.116

K. Velavan, **K. PalaniKumar**: *Effect of Silicon Carbide (SiC) on Stir Cast Aluminium Metal Matrix Hybrid Composites – A Review*. 06/2015; 766-767:293-300., DOI:10.4028/www.scientific.net/AMM.766-767.293

J.M. Prabhudass, **K. PalaniKumar**: *Mechanical & Thermal Properties of Sisal Epoxy/Banana Epoxy Composites - A Review*. 06/2015; 766-767:173-177., DOI:10.4028/www.scientific.net/AMM.766-767.173

- M. Venkatesan, **K. PalaniKumar**: *Material Characteristics of Fabricated Resin Carbon Nanotube Reinforced and Resin Glass Fiber Carbon Nanotube Reinforced Composites*. 06/2015; 766-767:362-367., DOI:10.4028/www.scientific.net/AMM.766-767.362
- M. Kathirvel, **K. PalaniKumar**: *Effect of Volume Fraction on Surface Roughness in Turning of Hybrid Metal Matrix (A6061 Al+SiC+Graphite) Composites*. 06/2015; 766-767:263-268., DOI:10.4028/www.scientific.net/ AMM.766-767.263
- Jeswin Arputhabalan, **K. PalaniKumar**: *Tensile Properties of Natural Fiber Reinforced Polymers: An Overview*. 06/2015; 766-767:133-139., DOI:10.4028/www.scientific.net/AMM.766-767.133
- T.N. Valarmathi, **K. PalaniKumar**, S. Sekar: *Modeling of Surface Roughness in Drilling of MDF Panels*. 06/2015; 766-767:831-836., DOI:10.4028/www.scientific.net/AMM.766-767.831
- A. Srithar, **K. PalaniKumar**, B. Durgaprasad: *Hard Turning of AISI D2 Steel by Polycrystalline Cubic Boron Nitride (PCBN)*. 06/2015; 766-767:649-654., DOI:10.4028/www.scientific.net/AMM.766-767.649
- K.R. Padmavathi, R. Ramakrishnan, **K. PalaniKumar**: *Aluminium Metal Matrix Composite – An Insight into Solid State and Liquid State Processes*. 06/2015; 766-767:234-239., DOI:10.4028/www.scientific.net/AMM.766-767.234
- N. Dilip Raja, R. Velu, S.T. Selvamani, **K. PalaniKumar**: *The Comparative Analysis of Mechanical Properties on MMC (AA6061 + SiC_p 10% wt) before and after Age Hardening*. 06/2015; 766-767:276-280., DOI:10.4028/www.scientific.net/AMM.766-767.276
- T. Rajmohan, K. Mohan, **K. PalaniKumar**: *Synthesis and Characterization of Multi Wall Carbon Nanotube (MWCNT) Filled Hybrid Banana-Glass Fiber Reinforced Composites*. 06/2015; 766-767:193-198., DOI:10.4028/www.scientific.net/AMM.766-767.193
- Nrr Anbusagar, **K Palanikumar**, R Vigneswaran, M Rajmohan, P Sengottuvel: *Tensile and Flexural Properties of Glass Fibre Reinforced Nano Polymer Composite Panels*. 12/2014; 766-767., DOI:10.4028/www.scientific.net/AMM.766-767.372
- M. Ramesh, S. Nijanthan, **K. PalaniKumar**: *Processing and Mechanical Property Evaluation of Flax-Glass Fiber Reinforced Polymer Composites*. 06/2015; 766-767:187-192., DOI:10.4028/www.scientific.net/AMM.766-767.187
- A. Shadrach Jeya Sekaran, **K. PalaniKumar**, Kasivisvanathan Pitchandi, L. Karunamoorthy: *Mechanical Characteristics of Woven Banana and Glass Fiber Epoxy Composites*. 06/2015; 766-767:110-115., DOI:10.4028/www.scientific.net/AMM.766-767.110
- K. Umanath, **K. PalaniKumar**, V. Balasubramanian, S.T. Selvamani: *Sensitivity Analysis of Friction Welding Process Parameters on Tensile Properties of ASS304L Alloy*. 06/2015; 766-767:757-764., DOI:10.4028/www.scientific.net/AMM.766-767.757
- K. Umanath, **K. PalaniKumar**: *Influence of Process Parameter on Microstructural Characteristics and Tensile Properties of Friction Welded ASS304L Alloy*. 06/2015; 766-767:745-750.,DOI:10.4028/www.scientific.net/ AMM.766-767.745
- N.R.R. Anbusagar, **K. PalaniKumar**, R. Mohanarangan, P. Sengottuvel: *Flexural and Impact Properties of 2D and 3D Jute/GF/Epoxy Hybrid Composite Materials*. 06/2015; 766-767:178-182., DOI:10.4028/www.scientific.net/ AMM.766-767.178
- S. Eabenraj Kumar, **K. PalaniKumar**, Kasivisvanathan Pitchandi: *Cutting Force Analysis in Drilling of Al6061/Mica Particulate Composite*. 06/2015; 766-767:791-795., DOI:10.4028/www.scientific.net/AMM.766-767.791

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6. Sponsored Research (Annexure V)

S. No.	Title of Research	Sponsoring Agency	Fund Received	Period	Main or co-investigator
11.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI,	1.00 Lakhs	Mar,2018- Mar,2019	Principal Investigator
10.	AICTE-ISTE Refresher programme on Teaching Learning Process	ISTE	3.00 Lakhs	May'2018.	Principal Investigator
9.	FDP on Biodegradable composites: Processing and applications	AICTE, New Delhi.	7.00 Lakhs	Oct- Nov'2017.	Principal Investigator
8.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI,	0.40 Lakhs	Mar,2017- Mar,2018	Principal Investigator
7.	DST-NIMAT Project- Entrepreneurship awareness camp, Technical Education Development Programme and Faculty Development Programme.	DST-EDI, India.	7.5 lakhs	April 2016 – Mar 2017.	Principal Investigator
6.	DST-NIMAT Project- Entrepreneurship awareness camp	DST-EDI,	0.60 Lakhs	Mar,2014- Mar,2015	Principal Investigator
5.	Innovation and Enterprenuer Development Centre. Grant number: 11/03/2015 NEB©, 11/03/2015 NEB(G) Dated 28 May 2015.	DST, Govt. of India.	47.00 Lakhs	2015-05 to 2020-07	Principal Investigator
4.	FDP on Processing and Characterization of composite materials including natural fiber reinforced composites	AICTE, New Delhi	6.0 Lakhs	March 2015	Principal Investigator
3.	Staff Development Programme on Artificial Intelligence with AI	AICTE	7.0 Lakhs	15/09/2011 – 27/09/201	Principal Investigator
2.	Development of Computer Integrated manufacturing System	AICTE	10.00 Lakhs	March 1998 - 01-09-2011	Principal Investigator
1.	Short Term Training Programme on Latest Trends in Manufacturing for Global Competitiveness- A Changing Trend approach with case studies	ISTE	2.0 Lakhs	05-12-2004 to19/12/2004	Principal Investigator

7. Consultancy

Title of Consultancy Work	Client	Period
Tool Design	S.A. International Limited, Government of Tamilnadu undertaking	2005-2010
Effect of Nano modified polyester resin on hybrid Sandwich laminates	Paper Published in Elsevier- Private patent bending	2013-present
Tool Design	Karthick Industries	2002-2011
Composite material substitute for conventional materials	Super fiber Glass industries	2012-2014
Natural fiber composite mud guard for automobile	Private	2013-present
Natural fiber composite fiber glass for industrial Applications	Super Fiber glass Industries, Chennai	2013-Present
Fiber glass tanks and other accessories for lab equipments	Revo Technologies	2015-present

8. Technology Transfer

Details	Client	Period
Natural fiber composite fiber glass for industrial Applications	Super Fiber glass Industries, Chennai	2013-Present
Fiber glass tanks and other accessories for lab equipments	Revo Technologies	2015-present

DETAILS OF INNOVATIVE RESEARCH

(Relating to past 3 years)

1. Specific Area or field of innovative research for which the present award is claimed	Machining of Composite materials
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2. Nature of innovative research work done in the above area.	Sponsored
3. If sponsored research a. Name of sponsoring agency b. Amount grant received c. Name of co researcher	Sri Sai Ram Institute of Technology Super Fiber glass Industries, Chennai. Revo Industries, Trichirapalli. University of Aveiro, Portugal. The equipments, the experimental work and related investigations are carried out at Super Fiber glass Industries, Chennai. Revo Industries, Trichirapalli and Sri Sai Ram Institute of technology. The experimental results, SEM analysis and software required for the analysis is provided by University of Aveiro, Portugal. From Portugal: Prof. . Paulo Davim. Mr. M. Ramesh Mr. Venkatesan
4. If unsponsored research	Machining of composite materials: Machining of composite materials is an important research in the field of mechanical Engineering. Machining such as turning, drilling are carried out in the research work and papers are published in related fields.
5. Titles of research papers published in the specific area <ul style="list-style-type: none"> • Mechanical Property Analysis on Sandwich Structured Hybrid Composite Made from Natural Fibre, Glass Fibre and Ceramic Fibre Wool Reinforced with Epoxy Resin • Plant fibre based bio-composites: Sustainable and renewable green materials • Mechanical Property Analysis on Sandwich Structured Hybrid Composite Made from Natural Fibre, Glass Fibre and Ceramic Fibre Wool Reinforced with Epoxy Resin • Evaluation of mechanical and interfacial properties of sisal/jute/glass hybrid fiber reinforced polymer composites • Experimental investigation on the mechanical properties of green hybrid sisal and glass fiber reinforced polymer composites • Influence of fiber orientation and fiber content on properties of sisal-jute-glass fiber-reinforced polyester composites • Experimental Investigation of Thermal Properties of Hybrid Glass Fiber-Sisal Reinforced Epoxy Composites • Processing and mechanical property evaluation of kenaf-glass fiber reinforced polymer composites • Tensile Property Evaluation of Woven Glass Fiber Reinforced Plastic and Aluminium Stack • Synthesis and characterization of Multi Wall Carbon Nanotube (MWCNT) filled hybrid banana-glass fiber reinforced composites 	

- Predicting the best Tensile Strength of Banana-Bamboo-Glass fiber reinforced Natural fiber composites using Taguchi method.
- Tensile properties of natural fiber reinforced polymers: An overview.
- Mechanical Characteristics of Woven Banana and Glass Fiber Epoxy Composites
- Flexural and Impact Properties of 2D and 3D Jute/GF/Epoxy Hybrid Composite Materials
- Predicting the Best Flexural Strength of Banana-Bamboo-Glass Fiber Reinforced Natural Fiber Composites Using Taguchi Method
- Mechanical & Thermal Properties of Sisal Epoxy/Banana Epoxy Composites-A Review

Names of Journals/Proceedings in which the above papers are published with dates of publication

- IOP Conference Series: Materials Science and Engineering 205 (1), 012015, ,2017
- Renewable and Sustainable Energy Reviews 79, 558-584,2017
- IOP Conference Series: Materials Science and Engineering 205 (1), 012015,2017
- Transactions of the Indian Institute of Metals 69 (10), 1851-1859,2016
- Journal of Natural Fibers 13 (3), 321-331,2016
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- Applied Mechanics and Materials 766, 187,2015
- Applied Mechanics and Materials 766, 44,2015
- Applied Mechanics and Materials 766, 193,2015
- Applied Mechanics & Materials,2015
- Applied Mechanics & Materials,2015
- Applied Mechanics and Materials 766, 110-115,2015
- Applied Mechanics and Materials 766, 178-182,2015
- Applied Mechanics and Materials 766, 162-166,2015
- Applied Mechanics and Materials 766, 173-177,2015

6. List of specific recognition in the form of awards, patents and fellowships etc., resulting from this research work

- Received Best paper award from YMCA University, Faridabad – 2012.
- **Patent Pending**
Utilization of waste jute fabric for the preparation of automobile two wheeler mud guard.
- Being an expert in the field, invited to contribute for the book ‘Machining Technology of Composite Materials, Published by Wood Head Publications, London.
- Being an expert in the field, invited to contribute for the book ‘Machining and machine Tools- Research and

	Development, Published by Wood Head Publications, London.
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