

**Dr. R. MURALI KANNAN**

Professor

Department of Mechanical Engineering

Sethu Institute of Technology

Kariapatti – 626115

Mobile No. : 9600913007

Email: [muralikannan6@gmail.com](mailto:muralikannan6@gmail.com)

Specialization: Crashworthiness of Thin Walled Sections and Materials

No. of Publications : 22

1.	<a href="#">Investigation of Optimal Alkali-treated <i>Perotis indica</i> Plant Fibers on Physical, Chemical, and Morphological Properties</a> M Prithiviraj, R Muralikannan Journal of Natural Fibers, 1-14	2020
2.	<a href="#">Surface morphology and parametric optimization of AWJM parameters using GRA on aluminum HMMC</a> TS Senthilkumar, R Muralikannan, SS Kumar Materials Today: Proceedings 22, 410-415	2020
3.	<a href="#">High-strength hybrid particulate-fibre polymer composites: The role of process temperature on the mechanical strength</a> S Kailainathan, R Muralikannan, K Nijandhan, S Venkatachalam Materials Research Express 6 (12), 125313	2019
4.	<a href="#">Investigation of tensile, flexural and impact properties of Neem- Indian almond hybrid fiber based epoxy composites</a> KRSPSP Muralikannan R, Selvabharathi R Material Research Express 6	2019
5.	<a href="#">Evaluation of recast layer and parametric optimization of EDM process on aluminium based HMMCs using grey relational analysis</a> TS Senthilkumar, R Muralikannan Materials Research Express 6 (10), 1065a6	2019
6.	<a href="#">Role of TiC and h-BN particles on morphological characterization and surface effects of Al 4032 hybrid composites using EDM process</a> TS Senthilkumar, R Muralikannan Journal of Mechanical Science and Technology 33 (9), 4255-4264	2019
7.	<a href="#">Damping, Thermal and Mechanical Analyses of Polycarbonate/Cerium Oxide Composites for Structural Applications</a> R Karuppasamy, R Muralikannan International Polymer Processing 34 (3), 324-329	2019
8.	<a href="#">Enhancing the geometric tolerance of aluminium hybrid metal matrix composite using EDM process</a> TS Senthilkumar, R Muralikannan Journal of the Brazilian Society of Mechanical Sciences and Engineering 41 ...	2019
9.	<a href="#">Enhancing the geometric tolerance of aluminium hybrid metal matrix composite</a>	2019

	<a href="#">using EDM process</a> TSSR Muralikannan	
10	<a href="#">Extraction and Characterization of Novel Natural Cellulosic Fibers from Pigeon Pea Plant</a> KSS Nijandhan.Kulandaivel, R.Muralikannan Journal of Natural Fibers	2018
11	<a href="#">Ricinus communis fiber as potential reinforcement for lightweight polymer composites</a> K Nijandhan, R Muralikannan, S Venkatachalam Materials Research Express 5 (9), 095307	2018
12	<a href="#">Studies on the Parametric Effects of Plasma Arc Welding of 2205 Duplex Stainless Steel</a> RS Bharathi, NS Shanmugam, RM Kannan, SA Vendan High Temperature Materials and Processes 37 (3), 219-232	2018
13	<a href="#">Influence of shot peening and plasma ion nitriding on tensile strength of 2205 duplex stainless steel using A-PAW</a> R Selvabharathi, R Muralikannan Materials Science and Engineering: A 709, 232-240	2018
14	<a href="#">Spectra Fibre Reinforced Composite-A Review</a> S Sathiyaraj, RM Kannan International Journal of Science and Research 6 (6)	2017
15	<a href="#">Systems Design is Needed for Smart Manufacturing Curriculum to India</a> N Vijayarangan, AS Kumar, GD Sivakumar, R Muralikannan International Conference on Research into Design, 1007-1016	2017
16	<a href="#">Comprehensive characterization of lignocellulosic fruit fibers reinforced hybrid polyester composites</a> BN Ganesh, R Muralikannan	2016
17	<a href="#">Characterization of new natural cellulosic fiber from the Perotis indica plant</a> M Prithiviraj, R Muralikannan, P Senthamaraikannan, SS Saravanakumar International Journal of Polymer Analysis and Characterization 21 (8), 669-674	2016
18	<a href="#">Extraction and characterization of lignocellulosic fibers from Luffa cylindrica fruit</a> B NagarajaGanesh, R Muralikannan International Journal of Polymer Analysis and Characterization 21 (3), 259-266	2016
19	<a href="#">Physico-chemical, thermal, and flexural characterization of Cocos nucifera fibers</a> B NagarajaGanesh, R Muralikannan International Journal of Polymer Analysis and Characterization 21 (3), 244-250	2016
20	<a href="#">Statistical analysis and pattern search optimization on the impact properties of talk particulates impregnated sisal fiber reinforced polyester composites</a> S Kailainathan, R Muralikannan, SK Sundaram, K Nijandhan Transactions of the Indian Institute of Metals 68 (5), 859-865	2015
21	<a href="#">Tensile behavior of alkali treated natural fiber reinforced hybrid composites</a> BN Ganesh, R Muralikannan Int J Appl Eng Res 10 (28), 20830-20835	2015

22	<a href="#">Mechanical behaviour of agricultural residue reinforced composites</a> B NagarajaGanesh, R Murali Kannan Scientific Review 1 (1), 1-4	2015
----	---	------