

List of Publications

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S.No	Title, Authors, Journal, Volume, Page nos	Year
1	“Characterization on chemical and mechanical properties of silane treated fish tail palm fibres” P Sabarinathan, K Rajkumar, VE Annamalai, K Vishal, International Journal of Biological Macromolecules 163, 2457-2464.	2020
2	“Abrasive water jet machining on Ti metal-interleaved basalt-flax fiber laminate” M Rajesh, K Rajkumar, VE Annamalai, Materials and Manufacturing Processes, 1-12	2020
3	“Tribological Properties of PEEK Reinforced with Synthetic Diamond Composite” K Rajkumar, K Vishal, P Sabarinathan, Trends in Manufacturing and Engineering Management, 371-380	2020
4	“A Feasibility Study on Microwave Joining of GFRP Composite Pipes with Interlayer Coupling Agents” K Rajkumar, M Dhananchezian, S Aravindan, Trends in Manufacturing and Engineering Management, 433-439	2020
5	“Optimization of Process Parameter in Abrasive Water Jet Machining of Blue-Fired Grain-Reinforced Glass Fiber Polymer Composite” P Sabarinathan, VE Annamalai, K Rajkumar, Trends in Manufacturing and Engineering Management, 217-226	2020
6	“Study of Statistical Distribution and Morphology of Particles in a Polymer Matrix by Foldscope Imaging Technique” P Kaythry, A Madhan, K Rajkumar, Trends in Manufacturing and Engineering Management, 461-474	2020
7	“A Comparative Study on Abrasive Water Jet Machining Characteristics of Entry and Exit Layers of Glass and Basalt Woven Polymer Composites” K Ramraji, K Rajkumar, M Rajesh, A Gnanavelbabu, Trends in Manufacturing and Engineering Management, 27-37	2020
8	“Dynamic Mechanical Analysis of Flax Fiber Stacked Polyurethane Blend Epoxy Composites” K Rajkumar, K Ramraji, M Rajesh, Trends in Manufacturing and Engineering Management, 475-484	2020
9	“Desirability Approach Machining Study on Aluminum Composite Through Wire-Cut Electric Discharge Technique” K Rajkumar, C Balasubramaniyan, K Ramraji, A Gnanavelbabu, P Sabarinathan, Trends in Manufacturing and Engineering Management, 15-25	2020
10	“Electrolyte and Machining Parameters Optimization of Wire Electrochemical Cutting of Aluminum/Titanium Diboride Composite” K Rajkumar, M Rajesh, K Ramraji, P Sabarinathan, A Gnanavelbabu, Trends in Manufacturing and Engineering Management, 39-50	2020

11	“Study of Hexagonal Boron Nitride Particulate as Vibration Behaviour Modifier of Alternate Stacked Glass–Natural Fibre Polymer Composite Laminate” K Rajkumar, M Selvaraj, Trends in Manufacturing and Engineering Management, 451-460	2020
12	“A comparative study on usage of cowdung ash and wood ash as partial replacement in flyash brick” P Indhiradevi, P Manikandan, K Rajkumar, S Logeswaran, Materials Today: Proceedings	2020
13	“Influence of ZrB₂/hBN particles on the wear behaviour of AA7075 composites fabricated through stir followed by squeeze cast technique” P Loganathan, A Gnanavelbabu, K Rajkumar, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2020
14	“Static and dynamic behavior of micrometric agro Prunus amygdalus particulate distributed interpolymer layer-kenaf composite” P Sabarinathan, K Rajkumar, VE Annamalai, K Vishal, Polymer Composites	2020
15	“Experimental Characterization of Dimensional and Surface Alternation of Straight and Angular Cutting on Self-lubricating Composite: A Wire EDM Approach” A Gnanavelbabu, K Rajkumar, Arabian Journal For Science And Engineering	2020
16	“Mechanical and free vibration properties of skin and core designed basalt woven intertwined with flax layered polymeric laminates” K Ramraji, K Rajkumar, P Sabarinathan, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science.	2020
17	“Studies on High Temperature Wear and Friction Behaviour of AA6061/B4C/hBN Hybrid Composites” S Ayyanar, A Gnanavelbabu, K Rajkumar, P Loganathan, Metals and Materials International, 1-18	2020
18	“Sustainable application of grinding wheel waste as abrasive for abrasive water jet machining process” P Sabarinathan, VE Annamalai, K Rajkumar, Journal of Cleaner Production, 121225	2020
19	“Optimization of machining parameters in CNC turning of AA6061-B4C-CNT hybrid composites using Grey-fuzzy method” A Gnanavelbabu, V Arunachalam, KTS Surendran, K Rajkumar, MS&E 764 (1), 012010	2020
20	“A comparative study of solid lubricant types on the microstructure and mechanical behaviour of AA7075-zirconium boride aerospace composites” P Loganathan, A Gnanavelbabu, K Rajkumar, S Ayyanar, MS&E 764 (1), 012001	2020
21	“Validation of tensile strength of notched hybrid polymer composite using Whitney-Nusimer point stress model” K Rajkumar, K Ramraji, M Manojkumar, A Gnanavelbabu, Materials Today: Proceedings	2020
22	“Investigations on the Cutting Quality of Interleaved Flax Fiber with Fly Ash-Reinforced Hybrid Polymer Composite” K Ramraji, K Rajkumar, M Rajesh, KM Nambiraj, Advances in Lightweight Materials and Structures, 419-430	2020
23	“Evaluation of Surface Integrity of Multi-stacked Glass Interplyed with Flax Laminate by Abrasive Waterjet Machining” M Rajesh, K Rajkumar, KM Nambiraj, K Ramraji, Advances in Lightweight Materials and Structures, 569-577	2020
24	“Effect of Solid Lubricant in Dry Machining on Al-B4C Composite” KM Nambiraj, K Rajkumar, M Rajesh, A Gnanavelbabu, Advances in Lightweight Materials and Structures, 587-596	2020

25	“Key Experimental Investigations of cutting dimensionality by Abrasive Water Jet Machining on Basalt Fiber/Fly ash Reinforced Polymer Composite” K Ramraji, K Rajkumar, M Dhananchezian, P Sabarinathan, Materials Today: Proceedings 22, 1351-1359	2020
26	“Comparative Study of Cutting Insert Wear and Roughness Parameter (Ra) while turning Nimonic 90 and Hastelloy C-276 by Coated Carbide Inserts” M Dhananchezian, K Rajkumar, Materials Today: Proceedings 22, 1409-1416	2020
27	“Analysis of Triangular WEDM Cut Corner Inaccuracy of Aluminium Composite Mold Material” K Rajkumar, C Balasubramaniyan, M Dhananchezian, K Ramraji, Materials Today: Proceedings 22, 1341-1350	2020
28	“Cryogenic turning of Hastelloy C-22” M Dhananchezian, K Rajkumar, Materials Today: Proceedings 22, 3075-3081	2020
29	“Microstructural Characteristics and Mechanical Behaviour of AA7075/TiB2 Composite” P Loganathan, A Gnanavelbabu, K Rajkumar, S Ayyanar, Materials Science Forum 979, 40-46	2020
30	“Utilization of waste tyre rubber and carbon black to develop a neoprene rubber hybrid composite” P Kaliyappan, M Dhananchezian, K Rajkumar, Materials Today: Proceedings 27, 724-728	2020
31	“A brass wire electric discharge machining variable optimization of aluminium–nano alumina composite” K Rajkumar, C Balasubramaniyan, KM Nambiraj, M Rajesh, Materials Today: Proceedings 27, 702-706	2020
32	“A study on wear assessment of AA6061-B4C-Nanographite hybrid composite” K Rajkumar, K Ramraji, KM Nambiraj, A Gnanavelbabu, Materials Today: Proceedings 27, 696-701	2020
33	“Performance Evaluation of Abrasive Water Jet Machining on AA6061-B4C-HBN Hybrid Composites Using Taguchi Methodology” A Gnanavelbabu, KTS Surendran, K Rajkumar, Advances in Unconventional Machining and Composites, 651-660	2020
34	“The Role of HBN Solid Lubricant Reducing Cutting Forces of Dry Machined Al-B4C Composite” M Rajesh, K Rajkumar, A Gnanavelbabu, KM Nambiraj, Advances in Unconventional Machining and Composites, 697-705	2020
35	“Pulse and Work Revolution Parameters of Wire Electrical Discharge Turning on Ti-6Al-4V Alloy” SR Prakash, K Rajkumar, G Selvakumar, Advances in Unconventional Machining and Composites, 611-620	2020
36	“A study of bio and tribo modifier on degradation of magnesium-calcium carbonate biomaterial” K Rajkumar, K Ramraji, G Namratha, S Manoj, A Gnanavelbabu, Materials Today: Proceedings 27, 691-695	2020
37	“Comparison study of mechanical and dynamic vibration properties of hole defect introduced in hybrid polymer composite” K Rajkumar, K Ramraji, VP Hariprakash, A Gnanavelbabu, Materials Today: Proceedings 27, 677-682	2020
38	“Tailoring of tensile and dynamic thermomechanical properties of interleaved chemical-treated fine almond shell particulate flax fiber stacked vinyl ester polymeric composites” K Ramraji, K Rajkumar, P Sabarinathan Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications.	2019

39	"Evaluation of thermal stability and damping behavior of electrical insulator waste reinforced thermoset polymer composite" P Sabarinathan, VE Annamalai, K Rajkumar, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science.	2019
40	"Design and Development of Interleaved Boost Converter Using Fuzzy Logic Controller" KL Rajkumar, SN Saghithya, K Kathick, S Saravanan, S Padhmanabha Iyappan	2019
41	"Tribological Analysis by Concentration Effect of Boron Carbide and Graphite on the Aluminum Composites" K Rajkumar, S Varun, G Prasanna, C Sreyas, A Gnanavelbabu, Materials Science Forum 969, 163-168	2019
42	"Accelerated Testing Model Prediction of Fatigue Life of AA5083-H111—AA6061-T6 Friction Stir Weldment" K Rajkumar, A Gnanavelbabu, KM Nambiraj, Advances in Manufacturing Processes, 573-581	2019
43	"Wire Electrical Discharge Machining Integrity Studies on the Aluminium Nanocomposite" K Rajkumar, L Poovazhagan, G Selvakumar, B Muthukumar, Advances in Manufacturing Processes, 543-554	2019
44	"Analysis and characterization of friction behaviour on AA7075/ZrB2 composite under dry sliding condition" P Loganathan, A Gnanavelbabu, K Rajkumar, Materials Research Express 6 (2), 026576	2018
45	"Investigation on the cutting quality characteristics of abrasive water jet machining of AA6061-B4C-hBN hybrid metal matrix composites" A Gnanavelbabu, K Rajkumar, P Saravanan, Materials and Manufacturing Processes 33 (12), 1313-1323	2018
46	"Cooperating function of graphite in reducing frictional wear of aluminium boron carbide composite" K Rajkumar, A Gnanavelbabu, MS Venkatesan, K Rajagopalan, Materials Today: Proceedings 5 (14), 27801-27809	2018
47	"Optimization of WEDM process parameters on multiple responses in cutting of Ti-6Al-4V" A Gnanavelbabu, P Saravanan, K Rajkumar, S Karthikeyan, R Baskaran, Materials Today: Proceedings 5 (13), 27072-27080	2018
48	"Mechanical strengthening effect by various forms and orientation of glass fibre reinforced isophthalic polyester polymer composite" A Gnanavelbabu, P Saravanan, K Rajkumar, P Sabarinathan, S Karthikeyan, Materials Today: Proceedings 5 (13), 26850-26859	2018
49	"Experimental investigations on multiple responses in abrasive waterjet machining of Ti-6Al-4V alloy" A Gnanavelbabu, P Saravanan, K Rajkumar, S Karthikeyan, Materials Today: Proceedings 5 (5), 13413-13421	2018
50	"Effect of abrasive waterjet machining parameters on hybrid AA6061-B4C-CNT composites" A Gnanavelbabu, P Saravanan, K Rajkumar, S Karthikeyan, R Baskaran, Materials Today: Proceedings 5 (5), 13438-13450	2018
51	"Preparation of super hydrophobic loofah sponge for fast and efficient separation of oil from seawater" S Diwakar, K Rajkumar, Materials Today: Proceedings 5 (6), 14367-14374	2018
52	"Machining characteristics evaluation of aluminium composites based on cBN and PCD inserts" K Rajkumar, KM Nambiraj, A Gnanavelbabu, P Sabarinathan, Materials Today: Proceedings 5 (2), 8424-8430	2018

53	“Experimental investigations on the Wire Electrochemical Micro Machining (WECM) integrity of AA6061-TiB2 composite” K Rajkumar, NA Thushal, A Gnanavelbabu, P Sabarinathan, Materials Today: Proceedings 5 (2), 6990-6998	2018
54	“Experimental Investigation and Reliability Analysis on Wear Performance of AA6061-B4C-Nanographite Hybrid Composites” A Gnanavelbabu, C Muthazhagan, K Rajkumar, S Ayyanar, P Loganathan, Materials Today: Proceedings 5 (2), 8436-8445	2018
55	“Electrolytic concentration effect on the abrasive assisted-electrochemical machining of an aluminum–boron carbide composite” M Sankar, A Gnanavelbabu, K Rajkumar, NA Thushal, Materials and Manufacturing Processes 32 (6), 687-692	2017
56	“Mechanical, electrical, and tribological properties of copper–graphite composites” K Rajkumar, S Aravindan, Composite Materials, 433-455	2017
57	“Investigation of mechanical properties of Luffa cylindrical and flax reinforced hybrid polymer composite” P Sabarinathan, K Rajkumar, A Gnanavelbabu, J. Adv. Eng. Res 3, 124-7	2016
58	“Wear and Life Characteristics of Al-B4C Nano Graphite Composite” KA Varun, K Rajkumar, A Gnanavelbabu, Wear 3 (1), 61-65	2016
59	“Mechanical properties and machinability studies on the human hair-coconut coir-glass fibre hybrid composite” D Senthil Nathan, K Rajkumar, A Gnanavelbabu, P Sabarinathan, Applied Mechanics and Materials 852, 79-84	2016
60	“Electro chemical machining of aluminum-boron carbide-nanographite composites” M Sankar, A Gnanavelbabu, K Rajkumar, M Mariyappan, Applied Mechanics and Materials 852, 136-141	2016
61	“Mechanical properties of almond shell-sugarcane leaves hybrid epoxy polymer composite” P Sabarinathan, K Rajkumar, A Gnanavelbabu, Applied Mechanics and Materials 852, 43-48	2016
62	“Preparation, Properties and Machinability Study of Luffa Fiber-Groundnut Shell Reinforced Epoxy Composite” R Panneerdhass, A Gnanavelbabu, K Rajkumar, Applied Mechanics and Materials 852, 29-35	2016
63	“A Comparative Study on the Brass-Steel Tribo-Pair under Dry and Lubricated Sliding Conditions” K Rajkumar, S Vasudevan, N Subbiah, Applied Mechanics and Materials 852, 416-421	2016