KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS BY FACULTY

S.No	Year of Publications	No of Papers Published				Book Chapters
		Total	Scopus Indexed	Web of Science	EBSCO Indexed	
1	2019	6	6	3	2	-
2	2018	8	8	3	2	2
3	2017	17	17	8	1	-
4	2016	11	11	2	-	-
Total		**42**	**42**	**16**	**5**	**2**

Faculty Publications in Journals

2019

1. Gokulkumar, S., Thyla, P.R., Prabhu, L. and Sathish, S., 2019. Measuring Methods of Acoustic Properties and Influence of Physical Parameters on Natural Fibers: A Review. Journal of Natural Fibers, https://doi.org/10.1080/15440478.2019.1598913
2. **Rajesh Kumar, L** & Amirthagadeswaran, KS 2019, 'Corrosion and wear behaviour of nano Al2O3 reinforced copper metal matrix composites synthesized by high energy ball milling', Particulate Science and Technology, doi: 10.1082/02726351.2018.1526834
3. **Rajesh Kumar, L** & Amirthagadeswaran, KS 2019, 'Variation of Properties of copper alumina nanocomposites synthesized by mechanical alloying', Materials and Technology, Slovenia, doi:10.17222/mit.2018.122
4. V. Vijayan, A. Godwin Antony**, P. T. Saravankumar**, V. Suresh 2019, 'Ecological effect of corn oil biofuel with SiO2 nano-additives, Journal Energy Sources, Part A: Recovery, Utilization, and Environmental Effectshttps://doi.org/10.1080/15567036.2019.1576079
5. M.M.Matheswara **P.T.Saravanakumara**,D.Somasundaramb, 2019, Thermal and thermo-hydraulic analysis of arc shaped rib roughened solar air heater integrated with fins and baffle, https://doi.org/10.1016/j.solener.2019.01.036
6. **Sengottaiyan Sivalingam**, Gurusamy Sureshkannan, 2019, 'Effect of PCGTAW on the Inconel 690 alloy with respect to microsegregation attainment in comparison with the base metal processed with autogenous welding' doi:10.17222/mit.2018.114
7. **Vasanthaseelan S**, Karthikeyan S, Kumaresan N, Rajesh V, 2019. 'Optimization of Rubber Seed oil Biodiesel Extraction using Soxhlet Extraction'. International Journal of Mechanical and Production Engineering Research and Development; Vol.9: pp.183–190

2018

1. **A Saravanakumar**, P Sasikumar (2018) "Flexural behavior and Microstructure of hybrid Metal Matrix Composites" Journal of Materials and Environmental Sciences 9 (10), 2951-55.
2. **L.Rajeshkumar, A.Saravanakumar, R.Saravanakumar, S.Sivalingam, V.Bhuvaneshwari** (2018) '"prediction capabilities of mathematical models for wear behavior of AA2219/MgO/Gr hybrid metal matrix composites. International Journal of Mechanical and production Engineering research and development 8, 393-399. (Scopus).
3. **A Avinash, P Sasikumar**, A Murugesan (2018) "Understanding the interaction among the barriers of biodiesel production from waste cooking oil in India-an interpretive structural modeling approach" Renewable Energy 127, 678-684 (Scopus) (Wos) (EBSCO).
4. **A Avinash**, A Murugesan (2018) "Prediction capabilities of mathematical models in producing a renewable fuel from waste cooking oil for sustainable energy and clean environment", Fuel 216, 322-329 (Scopus) (Wos) (EBSCO).
5. **B.Arulmurugan, M.Manikandan** (2018) "Improvement of metallurgical and mechanical properties of gas tungsten arc weldments of alloy 686 by current pulsing", Trans Indian Inst Met, 71, 2953-2970.
6. **A.Saravanakumar**, L.Rajeshkumar, S.Sivalingam, 'Dry Sliding Wear Behaviour of AA2219/Gr Metal Matrix Composites', Materials Today: Proceedings, Vol.5, 2018, pp-8321-8327.
7. **A.Saravanakumar**, S.C.Karthikeyan, B.Dhamotharan, V.Gokul kumar, "Optimization of CNC Turning Parameters on Aluminum Alloy 6063 using Taguchi Robust Design", Materials Today: Proceedings, Vol.5, 2018, pp-8290-8298.
8. **A.Saravanakumar**, S.Dhanabal, E.Jayanand, P.Logeshwaran, "Analysis of Process Parameters in Surface Grinding Process", Materials Today: Proceedings, Vol.5, 2018, pp.8131–8137.

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9. **Ramesh M**, Logesh R, Manikandan M, Sathesh Kumar N, Vishnu Pratap D. (2017). "Mechanical and Water Intake Properties of Banana-Carbon Hybrid Fiber Reinforced Polymer Composites", Materials Research. http://dx.doi.org/10.1590/1980-5373-mr-2016-0760. (Scopus) (WoS).
10. Bhoopathi R, **Ramesh M**, Rajaprasanna R, Sasikala G, Deepa C. (2017) "Physical Properties of Glass-Hemp-Banana Hybrid Fiber Reinforced Polymer Composites," Indian Journal of Science and Technology, Vol. 10. No. 3, pp.1-6 (Scopus).
11. **Ramesh M**, Sudharsan P. (2017). "Experimental Investigation of Mechanical and Morphological Properties of Flax-Glass Fiber Reinforced Hybrid Composite using Finite Element Analysis", Silicon, Vol. No. (Scopus) (WoS).
12. **Ramesh M**, Palanikumar K, Hemachandra Reddy K. (2017). "Plant fibre based bio-composites: Sustainable and renewable green materials," Renewable and Sustainable Energy Reviews, Vol. 79 PP.558-584 (Scopus) (WoS) (EBSCO).
13. **Ramesh M**, Gopinath A. (2017). "Measurement and analysis of thrust force in drilling sisal-glass fiber reinforced polymer composites", IOP Conf. Series: Materials Science and Engineering 197, 1-7. (Scopus).
14. **Avinash A**, Murugesan A (2017) "Economic analysis of biodiesel production from waste cooking oil Energy Sources, Part B: Economics, Planning, and Policy, 1-5 (Scopus) (WoS)
15. Murugesan A, **Avinash A** (2017), "Optimization of biodiesel production from raw and purified bio-oil". Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. Vol. 39 pp.978-984 (Scopus) (WoS).
16. A Murugesan, D Subramaniam, **A Avinash**, **P Sasikumar** (2017) "Evalution of Biodiesel Properties- A statistical approach", International Journal of Ambient Energy 38 273-79 . (Scopus)
17. M Manikandan, N Arivazhagan, M Arivarasu, K Mageshkumar, Deva N Rajan**, B Arul Murugan**, P Prasanth, S Sukumar, R Vimalanathan.(2017). Analysis of Metallurgical and Mechanical Properties of

Continuous and Pulsed Current Gas Tungsten Arc Welded Alloy C-276 with Duplex Stainless Steel. Transactions of the Indian Institute of Metals 70 (3), 661-669 (Scopus) (WoS).

18. **B Arulmurugan**, M Manikandan, (2017) Development of welding technology for improving the metallurgical and mechanical properties of 21st century nickel based superalloy 686 Materials Science and Engineering: A 691, 126-140 (Scopus) (WoS).
19. **V. Sathyamoorthy , S. Deepan** , S. P. Sathya Prasanth , L. Prabhu. (2017). Optimization of Machining Parameters for Surface Roughness in End Milling of Magnesium AM60 Alloy. Indian journal of science and technology. 10;32 (Scopus) (Wos)
20. **S. Deepan**, K. T. Shahul Gasnikhan, P. Soundiraraj and I. Rajkumar. (2017). Advancement in Clicker Machine and Die. Front. Cur. Trends. Engg. Tech. Vol. 1(2), pp. 75 – 78 (Scopus).
21. **L. Rajesh kumar**.(2017) Dry Sliding wear of AA2219/Gr Metal matrix composites. Material today proceedings. (Scopus)
22. Sandeep Koundinya, Maria Ambrose Raj Y., **K. Sreeram**, and Divakar Shetty A. S. Bio-mass utilization in high pressure cogeneration boiler. AIP Conference Proceedings 1859, 020032 (2017); https://doi.org/10.1063/1.4990185 (Scopus)
23. **Anandkumar**, R Babu, **Balaji.D** 2017. Suggestions on the Methodology of Parameters in Fused Deposition Modeling Processes. International Refereed Journal of Engineering and Science (IRJES) 6 (4), 61-63 (Scopus)
24. **NV S.Sathish,** K.Kumaresan, **L.Prabhu**. 2017. Experimental Investigation on Volume fraction of Mechanical and Physical Properties of Flax and Bamboo Fibers Reinforced Hybrid Epoxy Composites. Polymers & Polymer Composites 25 (3), 229-236. (Scopus)
25. **VS L.Prabhu**, V.Krishnaraj, **S.Sathish**.2017. Experimental and Finite Element Analysis of GFRP Composite Laminates with Combined Bolted and Bonded Joints. Indian Journal of Science and Technology 10 (14), 1-7 (Scopus) (Wos).

2016

1. Saravanakumar A and **Sasikumar P** (2016), "Dry sliding wear behavior of Al6063/Al_2O_3p/Grp Hybrid metal matrix composites". Journal of Balkan tribological association. Vol. 22. No. 2-1, pp. 1253-1264. SJR : 0.22, CI : 0.71, H index : 7 (Scopus)
2. Saravanakumar A and **Sasikumar P** (2016), "Investigation of effect of graphite particles on drillability of metal matrix composite". Material science. Vol. 22. No. 3, pp. 1392-1320. (Scopus)
3. T. Prakash, **P. Sasikumar**, S. Sivasankaran. (2016), "The Influences of the Friction Stir Processing On the Microstructure and Hardness of Al7075 Aluminium Sheet Metal Reinforced with SiC / 3 % B4C Hybrid Surface Nanocomposite". Advances in Natural and Applied Sciences. 10 (6); pp. 21-25
4. SaravanakumaR A, Avinash A, and **Saravanakumar R.** (2016). Optimization of biodiesel production from Pungamia oil by Taguchi's technique. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 38(17), 2524-2529. (Scopus).
5. Jeya Girubha, Vinodh S& **Vimal KEK** (2016), "Application of Interpretative Structural Modelling integrated Multi Criteria Decision Making methods for sustainable supplier selection", Journal of Modelling in Management, Vol 11 pp (3)
6. **Vimal KEK**, Vinodh S, Brajesh P and Muralidharan R (2016), Rapid prototyping process selection using multi criteria decision making considering environmental criteria and its decision support system, Rapid Prototyping Journal Vol 22 , Issue 2. (Scopus) (WOS).
7. **Vimal KEK** and Vinodh S (2016) , "LCA integrated ANP framework for selection of sustainable manufacturing processes" Environmental Modeling and Assessment 10.1007/s10666-015-9490-2 (Scopus) (WOS)
8. **Sivakumar M*** and Somasundaram P(2016), "Thermodynamic Investigations of Zeotropic mixture of R290, R23 & R14 on Three Stage Auto Refrigerating Cascade System", International Journal of Thermal Science (Association of Engineers, Serbia), Vol. 20 pp.2073-86, (Scopus), (WOS) (EBSCO Host).

9. Murugesan A, Subramaniam D, **Avinash A** (2016), “Heating value of bio-diesel: An Empirical and Theoretical Exploration”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. Vol. 38, Issue 9, pp. 1293-1298 (Scopus).
10. Senthil M, Visagavel K, **Avinash A** (2016) “Effects of exhaust gas recirculation on emission characteristics of Mahua (Madhuca Indica) biodiesel using red mud as catalyst”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects Vol. 38, Issue 6, pp. 876-881, (Scopus).
11. A. Avinash, P. Sasikumar (2016), "A comprehensive study on the emission characteristics of E-diesel dual-fuel engine", Alexandria EngineeringJournal, Vol. 55, Issue 1, pp. 351 – 356, (Scopus).