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List of Publications (last five years) :

1. L Poovazhagan, **K Kalaichelvan**(2015), VR Balaji, P Haripriya, SC Amith, " Upshot of Ultrasonic Amplitude on Developing the AA6061/SiC Metal Matrix Nanocomposites", Applied Mechanics and Materials 787, 558-562.
2. **K Kalaichelvan** (2015),HYBRID NANOCOMPOSITES- A REVIEW, Applied Mechanics & Materials
3. KM Bak, **K Kalaichelvan** (2015), "Evaluation of Failure Modes of Pure Resin and Single Layer of Adhesively Bonded Lap Joints Using Acoustic Emission Data" Transactions of the Indian Institute of Metals 68 (1), 73-82
4. M Kannan, **K Kalaichelvan** (2015), T Sornakumar, "Development and mechanical testing of filament wound FRP composite components", Applied Mechanics and Materials 787, 578-582
5. G Kumaresan, **K Kalaichelvan** (2016), "An Analysis of Superplastic Forming in a Re-Entrant Shape" Materials Science Forum 838, 540
6. KM Bak, **K Kalaichelvan** (2016), "Fabrication and Testing of Hybrid Composite plates for Stealth Aircraft using Microwave Oscillator", Invertis Journal of Science & Technology 9 (2), 112-117.
7. T Geethapriyan, **K Kalaichelvan** (2016), "Experimental Investigation of Electrochemical Micromachining Process Parameters on Pure-Titanium Using Taguchi-Grey Relational Analysis", Applied Mechanics and Materials 852, 198-204
8. V Thiyagarajan, **K Kalaichelvan** (2016), R Vijay, DL Singaravelu, "Influence of thermal conductivity and thermal stability on the fade and recovery characteristics of non-asbestos semi-metallic disc brake pad", Journal of the Brazilian Society of Mechanical Sciences and Engineering 38.
9. T Geethapriyan, **K Kalaichelvan** (2016), T Muthuramalingam, "Multi performance optimization of electrochemical micro-machining process surface related parameters on machining Inconel 718 using Taguchi-grey relational analysis", METALLURGIA ITALIANA, 13-19
10. MRP Kumar, K Prakasan, **K Kalaichelvan** (2016) , "Experimental investigation and multiphysics simulation on the influence of micro tools with various end profiles on diametrical

overcut of holes machined using electrochemical micromachining for a predetermined optimum combination of process parameters", Russian Journal of Electrochemistry 52 (10), 943-954

11. T Geethapriyan, **K Kalaichelvan** (2016), T Muthuramalingam, A Rajadurai, " Performance analysis of process parameters on machining α - β titanium alloy in electrochemical micromachining process", Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0954405416673103.

12. T Geethapriyan, **K Kalaichelvan** (2016), T Muthuramalingam, "Influence of Coated Tool Electrode on Drilling Inconel Alloy 718 in Electrochemical Micro Machining", Procedia CIRP 46, 127-130

13. JS Kumar, **K Kalaichelvan** (2017), "Taguchi-Grey Multi-Response Optimization on Structural Parameters of Honeycomb Core Sandwich Structure for Low Velocity Impact Test", Silicon, 1-11

14. G Kumaresan, **K Kalaichelvan** (2018) "Formability Analysis on Superplastic Forming of AZ91 Magnesium Alloy Sheet" Defect and Diffusion Forum 385, 437- 442

15. K Kalaichelvan (2018) "Analysis of 3-Point Bending Characteristics of AA6061 Miniature Specimens"

16. S Jesudass Thomas, **K Kalaichelvan** (2018) "Comparative study of the effect of surface texturing on cutting tool in dry cutting" Materials and Manufacturing Processes 33 (6), 683-694

17. JS Kumar, **K Kalaichelvan** (2018) "Taguchi-grey multi-response optimization on structural parameters of honeycomb core sandwich structure for low velocity impact test" Silicon 10 (3), 879-889

18. T Geethapriyan, **K Kalaichelvan** (2018), T Muthuramalingam, A Rajadurai "Performance analysis of process parameters on machining α - β titanium alloy in electrochemical micromachining process" Proceedings of the Institution of Mechanical Engineers, Part B: Journal of ...

19. K Murugesan, **K Kalaichelvan** (2018), MP Jenarthanan, T Sornakumar "Enhancement of vibration characteristics in filament wound FRP composite shafts using nitinol wires" Pigment & Resin Technology

20. S Soundararaj, T Christopher, **K Kalaichelvan** (2019) "Process Parameter Correlation in Low Pressure Hydro Forming of 6063-O Aluminium Tubes" Mechanics 25 (1), 64-72

21. T Geethapriyan, T Muthuramalingam, **K Kalaichelvan** (2019) "Influence of Process Parameters on Machinability of Inconel 718 by Electrochemical Micromachining Process using TOPSIS Technique" Arabian Journal for Science and Engineering 44 (9), 7945-7955