

Dr. Pradeep Kumar

List of Publications

C. Chandrasekhara Sastry¹ · K. Gokulakrishnan P. Hariharan, M. Pradeep Kumar, S. Rajendra Boopathy, "Investigation of boring on gunmetal in dry, wet and cryogenic conditions", Journal of the Brazilian Society of Mechanical Sciences and Engineering, published by Springer. Vol. 42, pp. 1-24 (2020).

S. Lakshmanan , M. Pradeep Kumar , M. Dhananchezian & N. Yuvaraj, "Investigation of monolayer coated WC inserts on turning Ti-alloy", Materials and Manufacturing Processes, published by Taylor & Francis. pp. 826-835 (2020).

M Pradeep Kumar, C Chandrasekhara Sastry, "Experimental investigation of dry and cryogenic broaching of AISI 4340 steel", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 35, Issue 14, pp. 1584-1597 (2020)

Yuvaraj, N., and Pradeep Kumar, M, "Surface Integrity Studies On Abrasive Water Jet Cutting Of Aisi D2 Steel", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 32, Issue 2, pp. 162-170 (2017).

Shakeel Ahmed. L, Pradeep Kumar. M, "., Investigation of cryogenic cooling effect in reaming Ti-6AL-4V alloy", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 32, Issue 9, pp. 970-978 (2017).

Shakeel Ahmed. L, Pradeep Kumar. M, "Performance Evaluation of Cryogenic Cooling in Reaming Titanium Alloy", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 32, Issue 3, pp. 302-308 (2017).

Yuvaraj, N., and Pradeep Kumar, M, "Investigation of Process parameters influence in AWJ cutting of D2 steel", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 32, Issue 2, pp. 151-161 (2017).

Manivannan, R., and Pradeep Kumar, M, "Multi-attribute decision making of cryogenically cooled Micro-EDM drilling process parameters using TOPSIS method", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 32, Issue 2, pp. 209-215 (2017).

N. Yuvaraj, M. Pradeep Kumar, "Optimisation of abrasive water jet cutting process parameters for AA5083-H32 aluminium alloy using fuzzy TOPSIS method", International Journal of Machining and Machinability of Materials, published by Interscience. Vol. 20, Issue 2, pp. 118-140 (2018).

N. Pradeep, K. Shanmuga Sundaram, M. Pradeep Kumar, "Multi-response optimization of electrochemical micromachining parameters for SS304 using polymer graphite electrode with NaNO₃ electrolyte based on TOPSIS technique", Journal of the Brazilian Society of Mechanical Sciences and Engineering, published by Springer. Vol. 41, pp. 2-10 (2019).

Lakshmanan Selvam , Pradeep Kumar Murugesan , Dhananchezian Mani and Yuvaraj Natarajan, "Investigation of AlCrN-Coated Inserts on Cryogenic Turning of Ti-6Al-4V Alloy ", Metals, published by Mdpi. Vol. 9, Issue 1138, pp. 1-15 (2019).

Yuvaraj Natarajana, *, Pradeep Kumar Murugesanb , Mugilvalavan Mohanb , Shakeel Ahmed Liyakath Ali Khanc, "Abrasive Water Jet Machining process: A state of art of review", Journal of Manufacturing Processes, published by Elsevier. Vol. 49, pp. 271-322 (2019).

Chandrasekhara Sastry, C, Hariharan, P, Pradeep Kumar, M & Muthu Manickam, MA, "Experimental investigation on boring of HSLA ASTM A36 steel under dry, wet, and cryogenic environments", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 34, Issue 12, pp. 1352-1379 (2019).

Chandrasekhara Sastry, C, Hariharan, P & Pradeep Kumar, M, "Experimental investigation of dry, wet and cryogenic boring of AA 7075 alloy", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 34, Issue 7, pp. 814-831 (2019).

Pragadish N, Pradeep Kumar M , Elango N, "Optimum Control Parameters During Machining of LM13 Aluminum Alloy Under Dry Electrical Discharge Machining (EDM) With A Modified Tool Design", MATERIALS SCIENCE (MEDŽIAGOTYRA), published by MEDŽIAGOTYRA. Vol. 25, Issue 3, pp. 270-275 (2019).

Pragadish N and Pradeep Kumar M, "Surface characteristics analysis of dry EDMed AISI D2 steel using modified tool design", International Journal of Mechanical Science and Technology, published by SPRINGER. Vol. 29, Issue 4, pp. 1737-1743 (2015).

Yuvaraj N and Pradeep Kumar M, "Multiresponse Optimization of Abrasive Water Jet Cutting Process Parameters Using TOPSIS Approach, ", Materials and Manufacturing Processes, published by Taylor & Francis. Issue 7, pp. 882-889 (2015).

" Cryogenic drilling of Ti-6Al-4V alloy under Liquid nitrogen cooling", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 31, Issue 7, pp. 951-959 (2016). 49. SSriram S, Vignesh V, Vijay Sekar KS, Pradeep Kumar M, "Finite Element Modelling of orthogonal cryogenic machining process", Applied Mechanics and Materials, Vol. 852, pp. 248-254 (2016).

Shakeel Ahmed. L, Pradeep Kumar. M, "Multi response optimization of cryogenic drilling on Ti-6Al-4V alloy using Topsis method", Journal of Mechanical Science and Technology, published by SPRINGER. Vol. 30, Issue 4, pp. 1835-1841 (2016).

Manivannan, R., and Pradeep Kumar, M, "Multiresponse optimization of micro-EDM process parameters AISI304 steel using TOPSIS", Journal of Mechanical Science and Technology, published by SPRINGER. Vol. 30, Issue 1, pp. 137-144 (2016).

S. Vanangamudi, M. Pradeep Kumar, "Experimental study on surface roughness in MS bar by using double point cutting tool in turning", International Journal of recent and innovation trends in computing and communication, Vol. 3, Issue 9, pp. 5493-5499 (2016). 53. S. Vanangamudi, M. Pradeep Kumar, " Experimental Study of double point cutting tool on feed force during turning of mild steel bar", International Journal of Mechanical Engineering and Technology, Vol. 6, Issue 9, pp. 126-132 (2016).

Shakeel Ahmed. L, Govindaraju. N, Pradeep Kumar. M, " Experimental Investigations on Cryogenic Cooling in the Drilling Of Titanium alloy", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 31, pp. 603-607 (2016).

Yuvaraj, N., and Pradeep Kumar, M, "Cutting of Aluminium Alloy with Abrasive Water Jet and Cryogenic Assisted Abrasive Water Jet: A Comparative Study of the Surface Integrity Approach", Wear, published by Elsevier. Vol. 262, pp. 18-32 (2016).

Seshadri R , Naveen I, Sharan Srinivasan , Viswasubrahmanyam M , Vijay Sekar K S , Pradeep Kumar M, "Finite Element Simulation of Machining of an Aerospace alloy", Vol. 13, Issue 4, pp. 268-277 (2017).

Vinoth Kumar, S., Pradeep Kumar. M, "Experimental Investigation and Optimization of Machining Process Parameters in AISI D2 Steel Under Conventional EDM and Cryogenically Cooled EDM Process", Transactions of the Indian Institute of Metals, published by SPRINGER. Vol. 70, Issue 9, pp. 2293-2301 (2017).

Yuvaraj, N., and Pradeep Kumar, M, "Study And Evaluation Of Abrasive Water Jet Cutting Performance On Aa5083-H32 Aluminium Alloy By Varying The Jet Impingement Angles With Different Abrasive Mesh Sizes", International Journal of Machining Science and Technology, published by Taylor & Francis. Vol. 3, pp. 1-31 (2017).

J. Elancheizhan, M. Pradeep Kumar, G. Manimaran, " Grinding titanium Ti-6Al-4V alloy with electroplated cubic boron nitride wheel under cryogenic cooling", Journal of Mechanical Science and Technology, published by SPRINGER. Vol. 29, Issue 11, pp. 4885-4890 (2015).

Manimaran. G, Pradeep Kumar M, "Surface modifications in grinding AISI D3 steel using cryogenic cooling", Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, published by SPRINGER. Vol. 37, Issue 4, pp. 1357-1363 (2015).

Vinoth Kumar, S., Pradeep Kumar. M, " Machining process parameter and surface integrity in conventional EDM and cryogenic EDM of Al-SiCp MMC", Journal of Manufacturing Processes, published by Elsevier. Vol. 20, Issue 1, pp. 70-78 (2015).

Vinoth Kumar, S., Pradeep Kumar. M, "Experimental Investigation of the process parameters on AISI D2 tool steel under cryogenic cooling electrode in EDM process", Journal of Mechanical Science, and Technology, published by SPRINGER. Vol. 29, Issue 9, pp. 3865-3871 (2015).