

## Dr.M.Pradeep Kumar – Publications

TITLE	CITED BY	YEAR
<b>Cryogenic turning of the Ti-6Al-4V alloy with modified cutting tool inserts</b> DMP Kumar M Cryogenics 51, 34-40	188*	2011
<b>Multiresponse Optimization of Abrasive Water Jet Cutting Process Parameters Using TOPSIS Approach</b> N Yuvaraj, M Pradeep Kumar Materials and Manufacturing Processes 30 (7), 882-889	104	2015
<b>Experimental comparison of carbon-dioxide and liquid nitrogen cryogenic coolants in turning of AISI 1045 steel</b> PKM Dilip Jerold B Cryogenics 52 (10), 569-574	94	2012
<b>Experimental investigations on cryogenic cooling by liquid nitrogen in the end milling of hardened steel</b> S Ravi, MP Kumar Cryogenics 51 (9), 509-515	85	2011
<b>Cryogenic turning of AISI 304 stainless steel with modified tungsten carbide tool inserts</b> M Dhananchezian, MP Kumar, T Sornakumar Materials and Manufacturing Processes 26 (5), 781-785	79	2011
<b>Influence of cryogenic cooling on the surface grinding of stainless steel 316</b> PKM Manimaran G Cryogenics 59, 76-83	72	2014
<b>Experimental investigation of turning AISI 1045 steel using cryogenic carbon dioxide as the cutting fluid</b> PKM Dilip Jerold B. Journal of Manufacturing Processes 13 (1134), 1134-1139	61*	2011
<b>Cryogenic Drilling of Ti-6Al-4V Alloy Under Liquid Nitrogen Cooling</b> LS Ahmed, MP Kumar Materials and Manufacturing Processes	55	2015
<b>Multi-response optimization of Micro-EDM process parameters on AISI304 steel using TOPSIS</b> R Manivannan, MP Kumar Journal of Mechanical Science and Technology 30 (1), 137-144	49	2016
<b>Machining of AISI 316 stainless steel under carbon-di-oxide cooling</b> BD Jerold, MP Kumar Materials and Manufacturing Processes 27 (10), 1059-1065	48	2012
<b>Experimental investigation of cryogenic cooling in milling of AISI D3 tool steel</b> S Ravi, MP Kumar Materials and Manufacturing Processes 27 (10), 1017-1021	47	2012
<b>Experimental Investigations on Cryogenic Cooling in the Drilling of Titanium Alloy</b> LS Ahmed, N Govindaraju, M Pradeep Kumar Materials and Manufacturing Processes	44	2015
<b>The Influence of Cryogenic Coolants in Machining of Ti-6Al-4V</b> BD Jerold, MP Kumar Journal of Manufacturing Science and Engineering 135 (3), 031005	43	2013
<b>Multi-attribute decision-making of cryogenically cooled micro-EDM drilling process parameters using TOPSIS method</b> R Manivannan, MP Kumar Materials and Manufacturing Processes 32 (2), 209-215	42	2017
<b>Optimization of Dry EDM Process Parameters Using Grey Relational Analysis</b> N Pragadish, MP Kumar Arabian Journal for Science and Engineering, 1-8	37	2016
<b>Effect of cryogenic cooling and sol-gel alumina wheel on grinding performance of AISI 316 stainless steel</b> G Manimaran, MP Kumar Archives of civil and mechanical engineering 13 (3), 304-312	36	2013
<b>Multiresponse optimization of grinding AISI 316 stainless steel using grey relational analysis</b> G Manimaran, MP Kumar	35	2013

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Materials and Manufacturing Processes 28 (4), 418-423		
<b>Experimental investigation of cryogenic cooling by liquid nitrogen in the orthogonal machining process</b> M Dhananchezian, MP Kumar, A Rajadurai	33	2009
<b>Cycle Time Reduction of a Truck Body Assembly in an Automobile Industry by Lean Principles</b> SS Kumar, MP Kumar Procedia Materials Science 5, 1853-1862	32	2014
<b>Experimental Investigations on Cryogenic Cooling in the Drilling of AISI 1045 Steel</b> N Govindaraju, L Shakeel Ahmed, M Pradeep Kumar Materials and Manufacturing Processes 29 (11-12), 1417-1421	31	2014
<a href="#">Cutting of aluminium alloy with abrasive water jet and cryogenic assisted abrasive water jet: A comparative study of the surface integrity approach</a> N Yuvaraj, MP Kumar Wear 362, 18-32	27	2016
<a href="#">Machining process parameter and surface integrity in conventional EDM and cryogenic EDM of Al-SiC p MMC</a> SV Kumar, MP Kumar Journal of Manufacturing Processes 20, 70-78	25	2015
<a href="#">Investigation of process parameters influence in abrasive water jet cutting of D2 steel</a> N Yuvaraj, MP Kumar Materials and Manufacturing Processes 32 (2), 151-161	23	2017
<a href="#">Surface Integrity Studies on Abrasive Water Jet Cutting of AISI D2 Steel</a> N Yuvaraj, MP Kumar Materials and Manufacturing Processes	23	2016
<a href="#">Finite element simulations of Ti6Al4V titanium alloy machining to assess material model parameters of the Johnson-Cook constitutive equation</a> KS Vijay Sekar, M Pradeep Kumar Journal of the Brazilian Society of Mechanical Sciences and Engineering 33 ...	23	2011
<a href="#">Finite Element Simulations of Ti-6Al-4V Titanium Alloy Machining to Assess Material Model Parameters of the Johnson-Cook Constitutive Equation</a> VSKSP Kumar M Journal of the Brazilian Society for Mechanical Sciences and Engineering 2 ...	23*	2011
<a href="#">Investigation of Cryogenic Cooling Effect in Reaming Ti-6Al-4V Alloy</a> LS Ahmed, MP Kumar Materials and Manufacturing Processes	20	2016
<a href="#">Multiresponse optimization of cryogenic drilling on Ti-6Al-4V alloy using toposis method</a> LS Ahmed, MP Kumar Journal of Mechanical Science and Technology 30 (4), 1835-1841	19	2016
<a href="#">Optimising flow stress input for machining simulations using Taguchi methodology</a> KSV Sekar, MP Kumar International Journal of Simulation Modelling 11 (1), 17-29	18	2012
<a href="#">Improving the machining performance characteristics of the <math>\mu</math>EDM drilling process by the online cryogenic cooling approach</a> R Manivannan, MP Kumar Materials and Manufacturing Processes, 1-7	16	2017
<a href="#">Investigation of Cooling Environments in Grinding EN 31 Steel</a> G Manimaran, MP Kumar Materials and Manufacturing Processes 28 (4), 424-429	16	2013
<a href="#">Study and evaluation of abrasive water jet cutting performance on AA5083-H32 aluminum alloy by varying the jet impingement angles with different abrasive mesh ...</a> N Yuvaraj, M Pradeep Kumar Machining Science and Technology, 1-31	15	2017
<a href="#">Grinding titanium Ti-6Al-4V alloy with electroplated cubic boron nitride wheel under cryogenic cooling</a> J Elanchezhian, MP Kumar, G Manimaran Journal of Mechanical Science and Technology 29 (11), 4885-4890	12	2015
<a href="#">Experimental investigation of cryogenic cooling by liquid nitrogen in the orthogonal machining of aluminium 6061-T6 alloy</a> M Dhananchezian, MP Kumar International Journal of Machining and machinability of Materials 7 (3), 274-285	12	2010
<a href="#">Effect of cryogenic CO<sub>2</sub> and LN<sub>2</sub> coolants in milling of aluminum alloy</a> M Jebaraj, MP Kumar Materials and Manufacturing Processes	9	2019

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<a href="#">Drilling of AISI 304 Stainless Steel under Liquid Nitrogen Cooling: A Comparison with Flood Cooling</a> MP Kumar, LS Ahmed Materials Today: Proceedings 4 (2), 1518-1524	<a href="#">9</a>	2017
<a href="#">Surface characteristics analysis of dry EDMed AISI D2 steel using modified tool design</a> N Pragadish, MP Kumar Journal of Mechanical Science and Technology 29 (4), 1737-1743	<a href="#">9</a>	2015
<a href="#">Effect of nozzle angle and depth of cut on grinding titanium under cryogenic CO2</a> J Elanchezhian, M Pradeep Kumar Materials and Manufacturing Processes, 1-5	<a href="#">7</a>	2018
<a href="#">EXPERIMENTAL INVESTIGATIONS ON CRYOGENIC COOLING IN DRILLING OF ALUMINIUM ALLOY.</a> N Govindaraju, L Shakeel Ahmed, M Pradeep Kumar Applied Mechanics & Materials	<a href="#">7</a>	2014
<a href="#">Optimisation of abrasive water jet cutting process parameters for AA5083-H32 aluminium alloy using fuzzy TOPSIS method</a> N Yuvaraj, MP Kumar International Journal of Machining and Machinability of Materials 20 (2 ...	<a href="#">5</a>	2018
<a href="#">Investigation on the Effect of Process Parameters in Micro Electrical Discharge Machining</a> M Siva, M Parivallal, MP Kumar Procedia Materials Science 5, 1829-1836	<a href="#">5</a>	2014
<a href="#">Study on surface integrity of high speed turning of Inconel 718 using Taguchi DOE approach</a> M Nataraj, M Ramamoorthy, MP Kumar International Journal of Applied Engineering Research 10 (2), 4191-4200	<a href="#">4</a>	2015
<a href="#">Effect of Cryogenic Cutting Coolants on Cutting forces and Chip morphology in machining Ti-6Al-4V Alloy</a> PKMD Jerold. M AIJSTPME 6 (2), 1-7	<a href="#">4*</a>	2013
<a href="#">Influence of Cryogenic Cooling in Turning of AISI 1045 Steel with Modified Cutting Tool Inserts</a> DMP Kumar M International Journal of Applied Engineering Research 6 (14), 1721-1731	<a href="#">2</a>	2011
<a href="#">An Investigation into the Effect of Three-flow Stress Models on the Finite Element Simulation of Orthogonal Cutting of AISI 1045 Steel</a> KSV Sekar, MP Kumar The Institution of Engineers 89	<a href="#">2</a>	2009
<a href="#">Experimental investigations on cryogenic assisted abrasive water jet machining of aluminium alloy and die steel</a> MP Kumar Chennai	<a href="#">1</a>	2017
<a href="#">Investigation of Liquid nitrogen (LN2) as coolant in grinding AISI D3 steel</a> PKM Manimaran G Advanced Material Research 341, 400-405	<a href="#">1</a>	2012
<a href="#">Effects of liquid nitrogen on cryogenic machining of AISI D2 Hardened Steel</a> RSP Kumar M Advanced materials Research 335, 400-405	<a href="#">1</a>	2011
<a href="#">Modeling and analysis of orthogonal cutting of steel using FEM</a> MP Kumar, BMA Rajadurai, BR Dinakar Proceedings of the Int. Conf. on Mech. Engineering	<a href="#">1</a>	2003
<a href="#">EXPERIMENTAL STUDY OF DOUBLE POINT CUTTING TOOL ON CHIP–TOOL INTERFACE TEMPERATURE IN TURNING</a> S Vanangamudi, MP Kumar	<a href="#">1</a>	
<a href="#">Performance evaluation of cryogenic cooling in reaming process for titanium alloys</a> MP Kumar Chennai		2017
<a href="#">Performance Evaluation of Magnetic Field Assisted Micro Electrical Discharge Machining (µEDM) Process</a> R Manivannan, MP Kumar		2016
<a href="#">Finite Element Modelling of Orthogonal Cryogenic Machining Process</a> S Sriram, V Vignesh, KS Vijay Sekar, M Pradeep Kumar Applied Mechanics and Materials 852, 248-254		2016
<a href="#">Investigation of cryogenic cooling in micro EDM drilling process</a> MP Kumar Chennai		2016
<a href="#">Experimental investigation of process parameters under dry EDM using modified electrode</a> MP Kumar Chennai		2016

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<a href="#">Performance Evaluation of Dry EDMed Aluminium Alloy</a> MP Kumar, N Pragadish ASME 2015 International Mechanical Engineering Congress and Exposition ...		2015
<a href="#">Experimental Study on Surface Roughness in MS Bar by using Double Point Cutting Tool in Turning</a> S Vanangamudi, MP Kumar International Journal on Recent and Innovation Trends in Computing and ...		2015
<a href="#">Sensitivity Analysis of Material Constitutive Model Parameters in Numerical Simulation of the Orthogonal Turning Process</a> SKS Vijay, KM Pradeep Advanced Materials Research 1119, 591-596		2015
<a href="#">Performance Evaluation of liquid nitrogen as a coolant in turning of aluminium metal matrix composite</a> MVP Kumar M Advanced materials Research 893, 2014		2014
<a href="#">Performance Evaluation on Cryogenic Cooling of Electrode in Electrical Discharge Machining of AISI D2 Steel</a> MP Kumar, SV Kumar ASME 2013 International Mechanical Engineering Congress and Exposition ...		2013
<a href="#">Flow Stress Optimization for Machining Simulations</a> PKM Vijay Sekar KS Advanced materials Research 622, 91-98		2013
<a href="#">Optimizing flow stress input for machining simulation using Taguchi methodology</a> VSKSP Kumar M International journal of Simulation Modeling 11, 17-28		2012
<a href="#">Influence Of Cryogenic Cooling With Modified Cutting Tool Insert In The Turning Of Aluminium 6061-T6 Alloy</a> M Dhananchezian, MP Kumar i-Manager's Journal on Mechanical Engineering 1 (3), 42		2011
<a href="#">Experimental Investigation of Cryogenic Cooling in the Turning of Ti-6Al-4v Alloy with Modified Cutting Tool Insert</a> DMP Kumar M International Journal of Multi displ. Research & Advcs. in Engg. (IJMRAE) 3 ...		2011
<a href="#">Finite Element Analysis of The Orthogonal Metal Cutting Process With AISI 1045 Steel</a> KSV Sekar, MP Kumar International Conference on Emerging Research and Advances in Mechanical ...		2009
<a href="#">Finite Element Analysis of the Effect of Cutting Speeds on the Orthogonal Machining Process of AA 6082 (T6) Alloy</a> KSV Sekar, MP Kumar International Journal of Applied Engineering Research 4 (11), 2189-2202		2009