

Publication Details

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Area of Interest: Non-traditional Machining, Cryogenic machining

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1. N Yuvaraj, N Arunkumar, MS Nivetha, A Lina Esther, "Abrasive water jet piercing of inclined holes on ceramic coated nickel superalloy: A Preliminary Study", Manufacturing Letters, Elsevier, Vol:26, pp: 59-63, 2020
2. Vinothkumar Sivalingam, Zan Zhuoliang, Sun Jie, S Baskaran, N Yuvaraj, Munish Kumar Gupta, Mashood Khan Aqib, "Use of Atomized Spray Cutting Fluid Technique for the Turning of a Nickel Base Superalloy", Materials and Manufacturing Processes, Taylor & Francis, pp:1-8, 2020
3. E Pavithra, Mahesh Dhakal, Prithvi Hada, N Yuvaraj, K Sridhar, "Experimental Investigation of Twist Fatigue Characteristics on Piston Rings", International Journal of Vehicle Structures & Systems, MechAero Foundation for Technical Research & Education Excellence (MAFTREE), Vol:12, Issue:2, pp:146-149, 2020
4. C.S Shamli, P Hariharan, N Yuvaraj, E Rajkeerthi, "Impact of Electrical Process Parameter in Electrochemical Micromachining of Nimonic 75 Alloy", International Journal of Vehicle Structures & Systems, MechAero Foundation for Technical Research & Education Excellence (MAFTREE), Vol:12, Issue:2, pp:197-200, 2020
5. Ravichandran Thillaigovindan, Yuvaraj Natarajan, "Experimental Investigation on Cryogenic Assisted Abrasive Aqua Jet Machining of Die Steel", FME Transactions, Vol:48, Issue:4, pp: 954-961, 2020
6. C S Shamli, P Hariharan, N Yuvaraj, E Rajkeerthi, "Study and evaluation of process parameter on Nimonic 75 alloy by Electrochemical micromachining", IOP Conference Series: Materials Science and Engineering, IOP Publishing, Vol:923, pp:012021, 2020
7. S Lakshmanan, M Pradeep Kumar, M Dhananchezian, N Yuvaraj, "Investigation of monolayer coated WC inserts on turning Ti-alloy", Materials and Manufacturing Processes, Taylor & Francis, Vol:37, Issue:7, pp: 826-835, 2020
8. Yuvaraj Natarajan, Pradeep Kumar Murugesan, Mugilvalavan Mohan, Shakeel Ahmed, "Abrasive Water Jet Machining process: A state of art of review", Journal of Manufacturing Processes, Elsevier, Vol:49, pp:271-322, 2020
9. M Jebaraj, M Pradeep Kumar, N Yuvaraj, R Anburaj, "Investigation of surface integrity in end milling of 55NiCrMoV7 die steel under the cryogenic environments", Machining Science and Technology, Taylor & Francis, Vol:24, pp:465-488, 2020
10. N Yuvaraj, E Pavithra, CS Shamli, "Investigation of Surface Morphology and Topography Features on Abrasive Water Jet Milled Surface Pattern of SS 304", Journal of Testing and Evaluation, ASTM International, Vol:48, Issue:4, pp: 2981-2997, 2020

11. P Ganesh Kumar, N Yuvaraj, V Kumaresan, R Velraj, " Selection of Heat Transfer Fluids for Solar Thermal Applications Using Multi-Criteria Decision-Making Tools", Journal of Testing and Evaluation, ASTM International, Vol:48, Issue:1, pp:595-612, 2020
12. Lakshmanan Selvam, Pradeep Kumar Murugesan, Dhananchezian Mani, Yuvaraj Natarajan, "Investigation of AlCrN-Coated Inserts on Cryogenic Turning of Ti-6Al-4V Alloy", Metals, Multidisciplinary Digital Publishing Institute, Vol:9, Issue:12, pp:1338, 2019
13. Shakeel Ahmed L, N Yuvaraj, T Hariprasad, "Influence of Cryogenic Reaming Process Parameters on Titanium Alloy by Using Grey Relational Analysis", FME Transactions, Vol:47, Issue:3, pp:634-640, 2019
14. M Jebaraj, M Pradeep Kumar, N Yuvaraj, G Mujibar Rahman, "Experimental study of the influence of the process parameters in the milling of Al6082-T6 alloy", Materials and Manufacturing Processes, Taylor and Francis, Vol: 34, Issue:12, pp:1411-1427, 2019
15. Yuvaraj Natarajan, Pradeep Kumar Murugesan, Sundarajan Leninraj, Rajadurai Arunachalam, "Experimental Investigation on Cryogenic Assisted Abrasive Water Jet Machining of Aluminium Alloy", International Journal of Precision Engineering and Manufacturing-Green Technology, Korean Society for Precision Engineering, Vol:6, Issue:3, pp:415-432, 2019
16. P Thamizhvalavan, S Arivazhagan, N Yuvaraj, B Ramesh, "Machinability study of abrasive aqua jet parameters on hybrid metal matrix composite", Materials and Manufacturing Processes, Taylor & Francis, Vol:34, Issue:3, pp:321-344, 2019
17. N Yuvaraj, M Pradeep Kumar, "Performance and Surface Evaluation Characteristics on Cryogenic Assisted Abrasive Water Jet Machining of AISI D2 Steel", Non-Conventional Machining in Modern Manufacturing Systems, IGI global publishers, Vol:10, pp:202-231, 2019
18. 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, Inderscience, Vol:20, Issue:2, pp:118-140, 2018
19. R. Muruganandhan, M. Mugilvalavan, K. Thirumavalavan, N. Yuvaraj, "Investigation of water jet peening process parameters on AL6061-T6", Surface Engineering, Taylor and Francis, Vol: 34, Issue:4, pp:330-340, 2018
20. P. Hariharan, Shamli, Rajkeerthi, P. Shruthilaya, N Yuvaraj, "Influence of Process Parameters on Electrochemical Micromachining of Nimonic 75 Alloy", ASME 2017 International Mechanical Engineering Congress and Exposition, ASME, Vol:2, Issue: Advanced Manufacturing, pp:1-8, 2017
21. Natarajan Yuvaraj, Murugasen Pradeep Kumar, "Study and evaluation of abrasive water jet cutting performance on AA5083-H32 aluminum alloy by varying the jet impingement angles with different abrasive mesh sizes", Machining Science and Technology, Taylor & Francis, Vol:21, Issue:3, pp:385-415, 2017
22. N Yuvaraj, M Pradeep Kumar, "Surface integrity studies on abrasive water jet cutting of AISI D2 steel", Materials and Manufacturing Processes, Taylor & Francis, Vol:32, Issue:2, pp:162-170, 2017
23. Natarajan Yuvaraj, Murugasen Pradeep Kumar, "Investigation of process parameters influence in abrasive water jet cutting of D2 steel", Materials and Manufacturing Processes, Taylor & Francis, Vol:32, Issue:2, pp:151-161, 2017

24. N Yuvaraj, Pradeep Kumar, "Experimental Study of Cryogenically Enhanced Abrasive Water Jet Cutting of AISI D2 Steel", AIMTDR 2016
25. N Yuvaraj, M Pradeep Kumar," Cutting of aluminium alloy with abrasive water jet and cryogenic assisted abrasive water jet: A comparative study of the surface integrity approach", Intl Journal of Wear, Elsevier, Vol:362, pp:18-32, 2016.