

List of Publications

1. Anas Ahmad Siddiqui and **Avanish Kumar Dubey**, Laser Surface Treatment, *Engineering Steels and High-Entropy Alloys*, 2020, pp.1-16, IntechOpen Limited, UK.
2. Nisha Gupta, **Avanish Kumar Dubey** and Dhruv Kant Rahi, Analysis of Electrolyte Flow in IEG During Electrochemical Grinding of MMC, *Advances in Mechanical Engineering*, 2021, pp. 307-315, Springer, Singapore.
3. Deepak Kumar Gupta, **Avanish Kumar Dubey** and Alok Mishra, Numerical Study on Heat Affected Zone and Material Removal Rate of Shape Memory Alloy in Wire Electric Discharge Machining, *Advances in Manufacturing and Industrial Engineering*, 2021 pp. 509-517, Springer, Singapore.
4. Dhruv Kant Rahi, **Avanish Kumar Dubey** and Nisha Gupta, Analysis of Electrolyte Flow Effects in Surface Micro-ECG, *Advances in Manufacturing and Industrial Engineering*, 2021 pp. 371-379, Springer, Singapore.
5. Umesh Kumar Singh, **Avanish Kumar Dubey** and Ashutosh Pandey, Thermal Analysis of Friction Stir Welding for Different Tool Geometries, *Advances in Manufacturing and Industrial Engineering*, 2021 pp. 361-370, Springer, Singapore.
6. Umesh Kumar Singh and **Avanish Kumar Dubey**, Welding performance of dissimilar AZ91 and AZ31 Mg-alloys using developed Friction Stir Welding set-up, *Recent advances in Smart manufacturing and materials*, 2021 pp. 197-203, Springer, Singapore.
7. Surendra K. Saini, **Avanish K. Dubey** and B.N. Upadhyay, Optimization of surface roughness of laser trepanned hole in ZTA plate, *Machines and Mechanisms and Robotics*, 2022 pp. 61-67, Springer, Singapore.
8. A.A. Siddiqui, **A.K. Dubey**, Intelligent modeling of Dilution percent in Laser Surface Alloying of $Al_xCu_{0.5}FeNiTi$ High Entropy Alloy, *Machines and Mechanisms and Robotics*, 2022 pp. 455-61, Springer, Singapore.
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14. **Avanish Kumar Dubey** and Vinod Yadava, Multi-Objective Optimization of Nd:YAG Laser Cutting of Nickel Based Superalloy Sheet using Orthogonal Array with Principal Component Analysis, *Optics and Lasers in Engineering* 46 (2008) 124-132.
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16. **Avanish Kumar Dubey** and Vinod Yadava, Optimization of Kerf Quality during Pulsed Laser Beam Cutting of Aluminium Alloy Sheet, *Journal of Materials Processing Technology* 204 (2008) 412-418.
17. **Avanish Kumar Dubey** and Vinod Yadava, Robust Parameter Design and Multi-Objective Optimization of Laser Beam Cutting for Aluminium Alloy Sheet, *International Journal of Advanced Manufacturing Technology* 38 (2008) 268-277.
18. Arun Kumar Pandey and **Avanish Kumar Dubey**, Intelligent Modeling of Laser Cutting of Thin Sheet, *International Journal of Modeling and Optimization* 1(2) (2011) 107-112.
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21. Arun Kumar Pandey and **Avanish Kumar Dubey**, Taguchi based fuzzy logic optimization of multiple quality characteristics in laser cutting of Duralumin sheet, *Optics and Lasers in Engineering* 50 (2012) 328-335.
22. **Avanish Kumar Dubey**, GavendraNorkey and Sanat Agrawal, Parameter optimisation in laser cutting of aluminium alloy sheet, *International Journal of Mechatronics and Manufacturing Systems*, 5 (3/4) (2012) 179-188.
23. Ashish Srivastava, **Avanish Kumar Dubey** and Pankaj Kumar Shrivastava, Computer-aided hybrid ANN-GA approach for modelling and optimisation of EDDG process, *International Journal of Abrasive Technology* 5(3) (2012) 245-257.
24. Arun Kumar Pandey, **Avanish Kumar Dubey**, AI based Modeling and Optimization of Laser Cutting of Difficult-to-Laser-Cut Materials, *International Journal of Mechanical Engineering Research* 3(1) (2013) 22-25.
25. Arun Kumar Pandey and **Avanish Kumar Dubey**, Multiple quality optimization in laser cutting of difficult-to-laser-cut material using grey-fuzzy methodology, *International Journal of Advanced Manufacturing Technology* 65 (2013) 421-431.
26. Pankaj Kumar Shrivastava and **Avanish Kumar Dubey**, Intelligent modeling and multi-objective optimization of electric discharge diamond grinding of metal matrix composite, *Materials and Manufacturing Processes* 28 (2013) 1036-1041.
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51. A. A. Siddiqui, **A. K. Dubey**, C. P. Paul, Study of Geometrical Characteristics in Laser Surface Alloying of High Entropy Alloy, *Lasers in Engineering* 43 (2019) 237-259.
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60. Deepak Kumar Gupta and **Avanish Kumar Dubey**, Multi Process Parameters Optimization of Wire-EDM on Shape Memory Alloy (Ni54.1Ti) using Taguchi approach, *Materials Today – Proceedings* 44 (2021) 1423-1427.
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