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## LIST OF PUBLICATIONS AND PATENT

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- **Chaudhari, Abhimanyu**, Ashwani Sharma, Akash Subhash Awale, Mohd Zaheer Khan Yusufzai, and Meghanshu Vashista. "Modelling and simulation study of dry ultrasonic vibration-assisted grinding of tool steel with single alumina abrasive grit." *Journal of Manufacturing Science and Engineering* 144, no. 11 (2022): 111001.  
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- **Chaudhari, Abhimanyu**, Ashwani Sharma, Mohd Zaheer Khan Yusufzai, and Meghanshu Vashista. "Experimental analyses into dry ultrasonic vibration-assisted grinding of difficult-to-machine tool steel with alumina wheel." *Journal of Materials Engineering and Performance* 32, no. 11 (2023): 4860-4870.  
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- **Chaudhari, Abhimanyu**, Mohd Zaheer Khan Yusufzai, and Meghanshu Vashista. "Grindability study of hard to cut AISI D2 steel upon ultrasonic vibration-assisted dry grinding." *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering* 236, no. 3 (2022): 915-925.  
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- **Chaudhari, Abhimanyu**, Ashwani Sharma, Mohd Zaheer Khan Yusufzai, and Meghanshu Vashista. "The grindability performance and measurement of surface functional parameter capabilities of difficult-to-machine tool steel under tangential ultrasonic-vibration-assisted dry grinding." *Machining Science and Technology* (2023): 1-24.  
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- **Chaudhari, Abhimanyu,** Ashwani Sharma, Akash Subhash Awale, Mohd Zaheer Khan Yusufzai, and Meghanshu Vashista. "Effect of ultrasonic vibration assisted dry grinding on hysteresis loop characteristics of AISI D2 tool steel." *Sāadhanā* 46, no. 4 (2021): 245.

Link: <https://doi.org/10.1007/s12046-021-01771-5>

- **Patent:** Ultrasonic vibration assisted minimum quantity lubrication grinding system. Applied to Indian patent office, with **Patent Application No.: 202311066181.**