

VIPIN KUMAR SHARMA (Mechanical Engineering)

Specialization

M.Tech: COMPUTER AIDED DESIGN

Ph.D: PRODUCTION ENGINEERING

Area of Interest

Research HYBRID COMPOSITES

Publication - Books / Chapters / Papers / Articles / Blogs:

LIST OF RESREACH PUBLICATIONS

JOURNALS

1. V.K. Sharma, V. Kumar, R.S Joshi. Effect of addition on wear behaviour of an Al-6061 based hybrid composite. *Wear*, 2019, 426-427/961-974. (SCI-Indexed; Thomson Reuters).
2. V.K. Sharma, V. Kumar, R.S Joshi. Investigation of rare earth particulate on tribological and mechanical properties of Al-6061 alloy composites for aerospace application. *Journal of Material Research & Technology*, 2019, 8(4), 3504-3516. (SCI-Indexed; Thomson Reuters)
3. V.K. Sharma, V. Kumar, R.S Joshi. Experimental investigation on effect of RE oxides addition on tribological and mechanical properties of Al-6063 based hybrid composites, *Material Research Express*, 2019, 6(8), 1-38. (SCI-Indexed; Thomson Reuters)
4. V.K. Sharma, V. Kumar, R.S Joshi. Investigation on Surface Roughness during Finishing of Al-6061 Hybrid Composites tube With Traces of Rare Earth Metals Using Magnetic Abrasive Flow Machining, 2019, *Advances in Micro and Nano Manufacturing and Surface Engineering*.(SCOPUS-Indexed)
5. V.K. Sharma, V. Kumar, R.S Joshi, D. Sharma. Experimental analysis and characterization of SiC and RE oxides reinforced Al-6063 alloy based hybrid composites, 2020, *International Journal of Advanced Manufacturing Technology* DOI: 10.1007/s00170-020-05228-7. (SCI-Indexed; Thomson Reuters)
6. V.K. Sharma, V. Kumar, R.S Joshi. Parametric study of Aluminum-Rare Earth based composites with improved hydrophobicity using Response Surface Method. *Journal of Material Research & Technology*, 2020, (SCI-Indexed; Thomson Reuters)

CONFERENCES (International)

1. V.K. Sharma, V. Kumar, R.S Joshi, D. Sharma. Experimental analysis and characterization of SiC and RE oxides reinforced Al-6063 alloy based hybrid composites, 2020, DOI: 10.1007/s00170-020-05228-7. 40th International MATADOR Conference on Advanced Manufacturing Hangzhou, China on 8-10 July 2019. (SCI-Indexed; Thomson Reuters).
2. V.K. Sharma, V. Kumar, R.S Joshi. Effect of addition on wear behaviour of an Al-6061 based hybrid composite. *Wear* (22nd International Conference on Wear of Materials, Miami Florida USA, 14-18 April, 2019), 2019, 426-427/961-974. (SCI-Indexed; Thomson Reuters).

CONFERENCES (National)

1. V.K. Sharma, V. Kumar, R.S Joshi. Investigation on Surface Roughness during Finishing of Al-6061 Hybrid Composites tube With Traces of Rare Earth Metals Using Magnetic Abrasive Flow Machining, 7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2018) Anna University, Chennai during 13th - 15th December 2018.

BOOK CHAPTER (Springer Procedia)

1. V.K. Sharma, V. Kumar, R.S Joshi. Investigation on Surface Roughness during Finishing of Al-6061 Hybrid Composites tube With Traces of Rare Earth Metals Using Magnetic Abrasive Flow Machining, 2019, Advances in Micro and Nano Manufacturing and Surface Engineering

Any other Information: Recognitions:

- Served as a Convener in the International Conference held in MIET, Meerut from 04 to 05 December, 2018. The title of the conference was Mechanical: Innovative & Emerging Trends.
- Reviewed the research papers of Journal of Brazilian Society of Mechanical Sciences and Engineering (Springer, Publishers, Germany).
- Reviewed the research papers of Journal of Materials Research Express (IOP, Publishers, U.K.).
- Reviewed the research papers of International Journal of Numerical Methods for Heat & Fluid Flow (Emerald, Publishers, U.K.).
- Reviewed the research papers of Surface & Coatings Technology (Elsevier, Publishers).