

Dr. ANUJ KUMAR SHARMA

Publications in International Journals

Google Scholar Citations:

<https://scholar.google.com/citations?hl=en&user=Dy6t9FQAAAAJ>

1. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R. Prediction of temperature distribution over cutting tool with Alumina-MWCNT hybrid nanofluid using computational fluid dynamics (CFD) analysis. *The International Journal of Advanced Manufacturing Technology*. 2017. DOI 10.1007/s00170-018-1946-5. (Impact Factor **2.209**)
2. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., Singh, R.K. Novel uses of alumina-MoS₂ Hybrid Nanoparticle Enriched Cutting Fluid in Hard Turning of AISI 304 steel. *Journal of Manufacturing Processes*, 2017, 30, 467-482. Publisher: Elsevier Science. (Impact Factor **2.322**)
3. **Sharma, A.K.**, Singh, R.K., Dixit, A.R., Tiwari, A.K. Novel uses of Alumina/Graphene Hybrid Nanoparticle additives for improved tribological properties of lubricant in turning operation. *Tribology International*, 2018, 119 pp. 99–111. (Impact Factor **2.903**)
4. **Sharma, A.K.**, Katiyar, J.K., Bhaumik, S., Roy, S. Influence of Alumina/MWCNT Hybrid Nanoparticle Additives on Tribological Properties of lubricant in Turning Operation. *Fricition* 2018. Publisher: Springer. (Accepted for publication). (Impact Factor **1.5**).
5. Katiyar, J.K., **Sharma, A.K.**, Pandey B. Synthesis of Iron-Copper Alloy using Electrical Discharge Machining (EDM). *Materials and Manufacturing Processes*. (DOI: **10.1080/10426914.2018.1424997**). (Impact Factor **2.274**)
6. Singh, R.K., Dixit, A.R, **Sharma, A.K.**, Tiwari, A.K., Mandal, V, Pramanik, A. Influence of graphene and multi-walled carbon nanotube additives on tribological behavior of lubricants. *International Journal of Surface Science and Engineering* 2018. (accepted for publication) (Impact Factor **0.44**).
7. Rathaur, Anand; Katiyar, Jitendra; Patel, Vinay; Bhaumik, Shubrajit; **Sharma, Anuj**. A Comparative Study of Tribological and Mechanical Properties of Composite Polymer Coatings on Bearing Steel. *International Journal of Surface Science and Engineering* 2018. (Accepted for publication) (Impact Factor **0.44**).
8. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R. “Progress of nanofluid application in machining: A review”, *Materials and Manufacturing Processes*, 2015, 30(7) pp. 813-828, Publisher: Taylor and Francis. (Impact Factor **2.274**)
9. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R. “Rheological Behaviour of Nanofluids: A Review” *Renewable & Sustainable Energy Reviews*, 2016, 53, pp. 779-791. Publisher: Elsevier Science. (Impact Factor **8.050**)
10. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R. “Effects of Minimum Quantity Lubrication (MQL) in machining processes using conventional and nanofluid based cutting fluids: A comprehensive review”, *Journal of Cleaner Production*, 2016, 127, pp. 1-18. Publisher: Elsevier Science. (Impact Factor **5.715**)
11. Singh, R.K., **Sharma, A.K.**, Dixit, A.R, Tiwari, A.K., Pramanik, A., Mandal, A. Performance Evaluation of Alumina-graphene Hybrid Nano-cutting Fluid in Hard Turning. *Journal of Cleaner Production*, 2017, 162, pp. 830-845. Publisher: Elsevier Science. (Impact Factor **5.715**)
12. Singh, R.K., Dixit, A.R, Mandal, A., **Sharma, A.K.** Emerging application of nanoparticle enrich cutting fluid in metal removal processes. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2017, 39(11), 4677-4717. Publisher: Springer. (Impact Factor **1.235**)
13. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., Singh, R.K. “Measurement of Machining Forces

- and Surface Roughness in Hard Turning of AISI 304 steel using Alumina-MWCNT Hybrid Nanoparticles Enriched Cutting Fluid”, *Measurement*. Publisher: Elsevier Science 2017. **(Under review-communicated on April 18, 2017)** (Impact Factor **2.359**).
14. Rathaur, Anand; Katiyar, Jitendra; **Sharma, Anuj**; Patel, Vinay. “Influence of boron nitride with/without SN150/PFPE fillers on thermo-mechanical and tribological properties of SU-8 polymer” *Materials Research Express*. (Under review) (Impact Factor **1.068**).
 15. Arora, P.K., Haleem, A., Singh, M.K., **Sharma, A.K.** “Comparative Study of Heuristic Approaches for Cell Formation”, *International Journal of Engineering Science & Technology*, Vol. 3 No. 2, Feb 2011, pp. 1182-1188, ISSN 0975-5462.

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16. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., 2015. Improved Machining Performance with Nanoparticle Enriched Cutting Fluids under Minimum Quantity Lubrication (MQL) Technique- A Review. *Materials Today: Proceedings*, 2, pp. 3545 – 3551. **(Scopus indexed)**
17. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., 2016. Mechanism of Nanoparticles functioning and Effects in Machining Processes: A Review. *Materials Today: Proceedings*, 2, pp. 3539 – 3544. **(Scopus indexed)**
18. **Sharma, A.K.**, Singh, R.K., Tiwari, A.K., Dixit, A.R., 2016. Characterization and Experimental investigation of Al₂O₃ based nanocutting fluid in turning of AISI1040 steel under minimum quantity lubrication (MQL). *Materials Today: Proceedings*, 3, pp. 1899–1906). **(Scopus indexed)**
19. **Sharma, A.K.**, Singh, R.K., Tiwari, A.K., Dixit, A.R., 2016. Tribological investigation of TiO₂ based nanocutting fluid in machining under minimum quantity lubrication (MQL). *Materials Today: Proceedings*, 3, pp. 2155–2162. **(Scopus indexed)**
20. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., 2016. Characterization of TiO₂, SiO₂ and Al₂O₃ nanoparticle based cutting fluids. *Materials Today: Proceedings*, 3, pp. 1890–1898. **(Scopus indexed)**
21. **Sharma, A.K.**, Tiwari, A.K., Dixit, A.R., Singh, R.K., 2017. Investigation into Performance of SiO₂ Nanoparticle Based Cutting Fluid in Machining Process: *Materials Today: Proceedings*, 4, pp. 133-141. **(Scopus indexed)**
22. Singh, R.K., **Sharma, A.K.**, Dixit, A.R, Tiwari, A.K., 2017. Experimental investigation on thermal conductivity and specific heat of nano particles mixed cutting fluids. ICAAMM-2016, Hyderabad. India 7-9 July 2016. *Materials Today: Proceedings* 4, pp. 8587-8596. **(Scopus indexed)**
23. Singh, R.K., **Sharma, A.K.**, Dixit, A.R, Tiwari, A.K., Mandal, A., 2017. Preparation and characterization of nanoparticle mixed cutting fluids. *Advanced Materials Proceedings* 2(7), 458-462. **(Scopus indexed)**
24. Singh, R.K., **Sharma, A.K.**, Bishwajeet, Mandal, V., Kumar, G., Nag, A., Kumar, A., Dixit, A.R, Tiwari, A.K., Mandal, A., Das, A., 2017. Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation. IConAMMA_2017 Chennai. *Materials Today: Proceedings*. (Accepted for publication. **(Scopus indexed)**).

25. Singh, R.K., **Sharma, A.K.**, Mandal, V, Gaurav, K, Bishwajeet, Kumar, A., Dixit, A.R, Mandal, A., Das A.K. Effect of MWCNT Mixed Nanofluid in Turning Operation Using Minimum Quantity Lubrication. 10th International Conference on Precision, Meso, Micro and Nano Engineering (**COPEN 2017**), at Indian Institute of Technology, Madras, Tamil Nadu. ISBN: 978-93-80689-28-9, 133-136.
26. Anand Singh Rathaur, Jitendra K Katiyar, Vinay Kumar Patel and **Anuj Kumar Sharma**, “Tribological Performance of Biodegradable Lubricant with Hybrid Friction Modifier”, **ASIATRIB** International Conference, Sarawak (**Malaysia**), September 17-20, 2018. (**Accepted for publication**).