

International Journals

SCI Publications

1. **Rabesh Kumar Singh**, Amit Rai Dixit, Anuj Kumar Sharma, Arun Kumar Tiwari, Vimal Mandal, Alokesh Pramanik. (2018) Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants. International Journal of Surface Science and Engineering (Inderscience Publishers). **Accepted (In-Press)(SCIE, IF- 0.841)**.
2. **Rabesh Kumar Singh**, Amit Rai Dixit, Amitava Mandal, Anuj Kumar Sharma. (2017) Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review. Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer) 39(11) 4677-4717. (SCIE, IF- 1.627).<https://doi.org/10.1007/s40430-017-0839-0>
3. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Amit Rai Dixit, Arun Kumar Tiwari, Alokesh Pramanik, Amitava Mandal. (2017) Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning. Journal of Cleaner Production (Elsevier) 162 830-845. (SCIE, IF- 5.651).<https://doi.org/10.1016/j.jclepro.2017.06.104>

Anuj Kumar Sharma, **Rabesh Kumar Singh**, Amit Rai Dixit, Arun Kumar Tiwari. (2017) Novel uses of alumina-MoS₂ hybrid nanoparticle enriched cutting fluid in hard turning of AISI 304 steel. Journal of Manufacturing Processes (Elsevier) 30, 2017, Pages 467-482. (SCIE, IF- 2.809).<https://doi.org/10.1016/j.jmapro.2017.10.016>
4. Anuj Kumar Sharma, Arun Kumar Tiwari, Amit Rai Dixit, **Rabesh Kumar Singh**, Mahip Singh. (2018) Novel uses of alumina/graphene hybrid nanoparticle additives for improved tribological properties of lubricant in turning operation. Tribology International (Elsevier) 119, 99-111. (SCIE, IF- 3.246).<https://doi.org/10.1016/j.triboint.2017.10.036>
5. Anuj Kumar Sharma, Arun Kumar Tiwari, Amit Rai Dixit, **Rabesh Kumar Singh**. Measurement of machining forces and surface roughness in hard turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid. Measurement. (Elsevier) 2017 (**Under Review-Communicated on 18th April 2017**) (SCIE, IF- 2.218).

International Conferences (SCOPUS Indexed)

1. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Bishwajeet, Vimal Mandal, Kumar Gaurav, Abhishek Sharma, Amit Kumar, Amit Rai Dixit, Amitava Mandal, Alok Kumar Das. “*Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication*”. 1st International Conference on Mechanical Materials and Renewable Energy (ICMMRE - 2017), 8th – 10th Dec, 2017 Sikkim Manipal Institute of Technology, Majhitar, Sikkim. (**Published in IOP**

Conference Series: Material Science and Engineering, 377 (2018) 012017. (Scopus).
<http://iopscience.iop.org/article/10.1088/1757-899X/377/1/012017>

2. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Amit Rai Dixit, Arun kumar Tiwari, Amitava Mandal, “*Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids*”, International Conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM-2016) 7th to 9th July 2016, MLR Institute of Technology, Department of Aeronautical and Mechanical Engineering Hyderabad-500043. (Published in Elsevier Journal: Materials Today: Proceedings 4(8) (2017) 8587–8596). (Scopus). <https://doi.org/10.1016/j.matpr.2017.07.206>
3. Shakti Kumar, **Rabesh Kumar Singh**, Amit Rai Dixit, Amitava Mandal and Alok kumar Das, “*Response prediction in machining of AISI 1040 stainless steel using ANN model*”, ARPN Journal of Engineering and Applied Sciences. Vol. 11(16), August 2016). (Scopus)http://www.arpnjournals.org/jeas/research_papers/rp_2016/jeas_0816_4891.pdf
4. Anuj Kumar Sharma, **Rabesh Kumar Singh**, Amit Rai Dixit, Arun kumar Tiwari, “*Characterization and Experimental investigation of Al₂O₃ based nanocutting fluid in turning of AISI1040 steel under minimum quantity lubrication (MQL): Recent Advances in Nano-Science and Technology (RAINSAT-2015)*, Satyabhama University, Chennai, India, 8th-10th July 2015. (Published in Elsevier Journal: Materials Today: Proceedings 3 (2016) 1899–1906). (Scopus).<https://doi.org/10.1016/j.matpr.2016.04.090>
5. Anuj Kumar Sharma, **Rabesh Kumar Singh**, Arun kumar Tiwari, Amit Rai Dixit, “*Tribological investigation of TiO₂ based nanocutting fluid in machining under minimum quantity lubrication (MQL): Recent Advances in Nano-Science and Technology (RAINSAT-2015)*, Satyabhama University, Chennai, India, 8th-10th July 2015. (Published in Elsevier Journal: Materials Today: Proceedings 3 (2016) 2155–2162). (Scopus)<https://doi.org/10.1016/j.matpr.2016.04.121>
6. Anuj Kumar Sharma, Arunkumar Tiwari, Amit Rai Dixit, **Rabesh Kumar Singh**, “*Investigation into Performance of SiO₂ Nanoparticle Based Cutting Fluid in Machining Process*”, In 5th International conference on Material process and characterization, GRIET Hyderabad, India, 12-13 March 2016. (Published in Elsevier Journal: Materials Today: Proceedings 4(2) Part-A (2017) 133–141). (Scopus).<https://doi.org/10.1016/j.matpr.2017.01.006>
7. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Bishwajeet, Vimal Mandal, Kumar Gaurav, Akash Nag, Amit Kumar, Amit Rai Dixit, Amitava Mandal, Alok Kumar Das. “*Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation*”. International Conference on Advances in Materials & Manufacturing Applications (IconAMMA - 2017), 17th – 19th August, 2017

Amrita Vishwa Vidyapeetham University, Bengaluru, Karnataka. **Accepted for publication in Materials Today: Proceedings (Scopus).**

Books/Book Chapters

8. Anuj Kumar Sharma, **Rabesh Kumar Singh**, Amit Rai Dixit, Arun Kumar Tiwari, Mahip Singh. *An investigation on tool flank wear using alumina/MoS₂ hybrid nanofluid in turning operation*. International Conference on Manufacturing Engineering and Materials (ICMEM 2018) 18th - 22nd June 2018, Novy Smokovec, Hotel Atrium, Slovakia. **Accepted for publication in Springer: Lecture Notes in Mechanical Engineering (with title: Advances in Manufacturing Engineering and Materials).**
9. Anuj Kumar Sharma, Amit Rai Dixit, Arun Kumar Tiwari, **Rabesh Kumar Singh**. Hybrid nanoparticles enriched cutting fluids in machining processes. (**Accepted for publication in CRC Press, Taylor & Francis**)

International conferences:

10. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Vimal Mandal, Kumar Gaurav, Bishwajeet, Amit Kumar, Amit Rai Dixit, Amitava Mandal, Alok Kumar Das. *“Effect of MWCNT Mixed Nanofluid in Turning Operation Using Minimum Quantity Lubrication”*. (**Published ISBN: 978-93-80689-28-9**): **Proceedings** 10th International Conference on Precision, Meso, Micro and Nano Engineering (**COPEN**), Dec. 7-9th, 2017, Indian Institute of Technology, Madras, Chennai, Tamil Nadu.
11. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Amit Rai Dixit, Arun Kumar Tiwari, Amitava Mandal, *“Preparation and characterization of nanoparticles mixed cutting fluids”* International Conference on Materials Science & Technology (ICMTech -2016), 01 - 04 March 2016 at the Conference Centre, University of Delhi, Delhi, India. (**Published (ISSN 2002-4428): Advanced Materials Proceedings, 2(7), 458-462, 2017**).
12. Amit Kumar, Shakti. Kumar, Amitava, Mandal, Amit Rai Dixit, Alok Kumar Das, **Rabesh Kumar Singh**. *“Study on the performance of nano powder mixed EDM process”*. Proceedings of the 1st International Conference on Mechanical Engineering (INCOM18) Jadavpur University Kolkata India January 4 – 6, 2018 Paper No. INCOM18-131.
13. Ayush Chaturvedi, Parinay Gupta, **Rabesh Kumar Singh**, Nirmal Kumar Singh. *Effect of MQL on tool wear and surface roughness in turning operation*. (**Published (ISBN: 978-93-86171-39-9): Proceedings 5th International Conference** on Recent, Development in Engineering Sciences, Humanities and Management (**ESHM-17**), Dec. 16th, April 2017, National Institute of Technical Teachers Training & Research, Chandigarh, India.

National conferences:

1. Nishant Singh, **Rabesh Kumar Singh**, Amit Rai Dixit. (2017) Experimental investigation of machinability characteristics under minimum quantity lubrication using graphene based

nano-cutting fluid. International Journal of Advanced Research (IJAR) 5(4), 1065-1078. (ISSN 2320-5407).

2. **Rabesh Kumar Singh**, Anuj Kumar Sharma, Amit Rai Dixit, Amitava Mandal, “*Tribological analysis of AISI 304 material on turning process using coated carbide tool*”, In 2nd National Conference on Mining Equipment: New Technologies, challenges and Applications, (MENTCA 2015), ISM Dhanbad, India, 9-10 Oct 2015.