RESEARCH PUBLICATIONS

S No.	Authors	Title	Journal/Proceeding Name	Year
1	Rakesh Chandra Joshi, Anuj Kumar Sharma, Malay Kishore Dutta	"AI-SensorVision: A Low-cost Artificial Intelligence-based Robust and Real-time Assistance for Visually Impaired People	IEEE Transactions on Human-Machine Systems	2024
2	Koiri, Mithilesh Kumar; Dubey, Vineet; Sharma, Anuj Kumar; Chuchala, Daniel;	Design of a Shape-Memory-Alloy-Based Carangiform Robotic Fishtail with Improved Forward Thrust	Sensors	2024
3	Bhashkar, Avinash; Sharma, Anuj Kumar;	Experimental Analysis on Different Terrains Using Proprioceptive Information of One Leg of Quadruped Robot	Advances in Mechanical and Energy Technology	2023
4	Kaushal, Abhishek; Sharma, Anuj Kumar; Srivastava, Ashish Kumar; Singh, Gyanendra Kumar;	Color-Coded Light Signals Based Communication for Swarming Behaviors in Mobile Robotic System	Journal of Sensors	2023
5	Srivastava, Himanshu; Kaushal, Abhishek; Kumar, Harish; Tripathi, Anurag; Sharma, Anuj Kumar;	A Design and Development of Baggage Sorting Robotic System at the Airport		2022
6	Mishra, Upendra Kumar; Chandel, Vishal Singh; Singh, Om Prakash; Alam, Navshad; Sharma, Anuj Kumar;	Effect of La co-doping in Zr-doped CeO2 (LaxZr0. 05Ce1-(x+ 0.05) O2) catalyst synthesized via orange peel extract for soot oxidation	Ionics	2024
7	Dubey, Vineet; Sharma, Anuj Kumar;	A short review on hybrid nanofluids in machining processes	Advances in Materials and Processing Technologies	2023
8	Singh, Tushar; Vats, Prameet; Dubey, Vineet; Arora, Pawan Kumar; Kumar, Harish; Sharma, Anuj Kumar;	Investigation of Machining Parameters in Turning of AISI 316 Steel Using Palm Oil-Enriched Cutting Fluid	Advances in Mechanical and Energy Technology	2023
9	Tiwari, Ravi Shanker; Vats, Prameet; Singh, Tushar; Dubey, Vineet; Arora, Pawan Kumar; Sharma, Anuj Kumar;	An Investigation on Effect of Hybrid Nanofluids in End Milling of Aluminium 6061 Alloy	Advances in Mechanical and Energy Technology	2023
10	Maurya, Sudhanshu; Dubey, Vineet; Sharma, Anuj Kumar;	Optimization of machining parameters in EDM of titanium alloy (Ti6Al4V) using brass electrode	AIP Conference Proceedings	2023
11	Singh, Piyush; Dubey, Vineet; Sharma, Anuj Kumar;	Analysis of tool wear and chip morphology under different machining environments in turning operation	Materials Today: Proceedings	2023

12	Nishad, Pramod Kumar; Dubey, Vineet; Mishra, Dipesh Kumar; Sharma, Anuj Kumar;	An investigation on performance of castor oil and Pongamia oil based cutting fluid in MQL milling of aluminium alloy 6061	Materials Today: Proceedings	2023
13	Singh, Ajay; Dubey, Vineet; Sharma, Anuj Kumar;	Thermal modelling of cutting tool under different cutting environment in turning	Materials Today: Proceedings	2023
14	Saxena, Mukul; Sharma, Anuj Kumar; Srivastava, Ashish Kumar; Singh, Narendra; Dixit, Amit Rai;	An Investigation for Minimizing the Wear Loss of Microwave-Assisted Synthesized g-C3N4/MoS2 Nanocomposite Coated Substrate	Coatings	2023
15	Shukla, Abhishek; Dubey, Vineet; Sharma, Anuj Kumar;	Comparative study of dry machining with MQL assisted soybean oil in turning operation of AISI 304 steel	Materials Today: Proceedings	2023
16	Mishra, Avinash; Paul, Amrit Raj; Mukherjee, Manidipto; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	Evaluation of Cu-Ti dissimilar interface characteristics for wire arc additive manufacturing process	Rapid Prototyping Journal	2023
17	Kumar, Avinash; Sharma, Anuj Kumar; Katiyar, Jitendra Kumar;	State-of-the-art in sustainable machining of different materials using nano minimum quality lubrication (NMQL)	Lubricants	2023
18	Dubey, Vineet; Sharma, Anuj K; Singh, Balbir;	Optimization of machining parameters in chromium-additive mixed electrical discharge machining of the AA7075/5% B4C composite	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022
19	Kaushal, Abhishek; Sharma, Anuj Kumar;	A Novel Color-Coded Light-Based Communication for Autonomous Swarm Robotics Research	Advances in Energy Technology	2022
20	Sharma, Anuj; Agrawal, Atul Kumar; Rastogi, Vikas; Gupta, Ashish;	Multi-scale dynamic analysis of metal matrix composite shafts through morphological evaluations	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022
21	Mishra, Saurabh; Dubey, Vineet; Sharma, Anuj Kumar;	Potential of various metal-oxide nanofluids for sustainable machining application—a review	Recent Trends in Industrial and Production Engineering	2022
22	Dubey, Vineet; Sharma, Anuj Kumar; Kumar, Harish; Arora, Pawan Kumar;	Prediction of cutting forces in MQL turning of AISI 304 steel using machine learning algorithm	J. Eng. Res	2022
23	Mishra, Rishish; Dubey, Vineet; Singh, Rabesh	Prediction and Modelling of Nodal Temperature in Turning Operation	Advances in Mechanical and	2022

	Kumar; Sharma, Anuj Kumar;		Materials Technology	
24	Pant, Meena; Nagdeve, Leeladhar; Moona, Girija; Kumar, Harish; Sharma, Anuj;	Tribological behavior investigation of 316L stainless steel samples processed by selective laser melting	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2022
25	Mishra, Anurag Kumar; Kaushal, Abhishek; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	Finite Element Analysis of Infill Density on the Compressive Strength of 3D Printed Parts by Fused Deposition Modelling	Recent Advances in Industrial Production	2022
26	Singh, Vaibhav; Sharma, Anuj Kumar; Sahu, Ranjeet Kumar; Katiyar, Jitendra Kumar;	State of the art on sustainable manufacturing using mono/hybrid nano-cutting fluids with minimum quantity lubrication	Materials and Manufacturing Processes	2022
27	Vats, Prameet; Singh, Tushar; Dubey, Vineet; Sharma, Anuj Kumar;	Optimization of machining parameters in turning of AISI 1040 steel using hybrid MCDM technique	Materials Today: Proceedings	2022
28	Pal, Vijay Kumar; Sharma, Anuj Kumar;	Complex shaped micro-channels generation using tools fabricated by AWJ milling process	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022
29	Dubey, Vineet; Sharma, Anuj Kumar; Pimenov, Danil Yurievich;	Prediction of Surface Roughness Using Machine Learning Approach in MQL Turning of AISI 304 Steel by Varying Nanoparticle Size in the Cutting Fluid	Lubricants	2022
30	Gufran, Mohd; Mishra, Avinash; Singh, Rabesh Kumar; Sharma, Anuj Kumar; Dixit, Ankit; Shah, Ashiv;	Dependence of process planning strategy on deposition ratio in wire arc additive manufacturing	Materials Today: Proceedings	2022
31	Saxena, Mukul; Sharma, Anuj Kumar; Srivastava, Ashish Kumar; Singh, Rabesh Kumar; Dixit, Amit Rai; Nag, Akash; Hloch, Sergej;	Microwave-Assisted Synthesis, Characterization and Tribological Properties of a g-C3N4/MoS2 Nanocomposite for Low Friction Coatings	Coatings	2022
32	Prasad, Prashant Kumar; Dubey, Vineet; Sharma, Anuj Kumar;	Surface Roughness Prediction of AISI 304 Steel in Nanofluid Assisted Turning Using Machine Learning Technique	Key Engineering Materials	2022

33	Kamal; Kumar, Devender; Sharma, Anuj Kumar;	Statistical Analysis of Feature Selection and Clustering for Building the Optimised Drug Toxicity Prediction Model	International Conference on Information and Communication Technology for Competitive Strategies	2022
34	Koiri, Mithilesh Kumar; Kumar, Harish; Arora, Pawan Kumar; Sharma, Anuj Kumar;	Design and optimization of Caudal fin for robotic fish driven by crank-slotted slider and lever mechanism	Journal of Engineering Research	2021
35	Vaibhav Singh, Anuj Kumar Sharma, Ranjeet Kumar Sahu, Jitendra Kumar Katiyar;	Novel application of graphite-talc hybrid nanoparticle enriched cutting fluid in turning operation	Journal of Manufacturing Processes	2021
36	Koiri, Mithilesh Kumar; Sharma, Anuj Kumar;	Characterization and Behavior Study of Nitinol Shape Memory Alloy Wire for Effective and Efficient Use in Soft Robotics as an Actuator	Indian Journal of Pure & Applied Physics	2021
37	Mohanta, Neha; Singh, Rabesh Kumar; Katiyar, Jitendra Kumar; Sharma, Anuj Kumar;	A Novel Fluid–Structure Interaction (FSI) Modeling Approach to Predict the Temperature Distribution in Single-Point Cutting Tool for Condition Monitoring During Turning Process	Arabian Journal for Science and Engineering	2021
38	Yadav, Ajeet; Dubey, Vineet; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	Effect of Temperature and Humidity on Tribological Properties of Rail and Wheel Using Pin-On-Disc	Recent Advances in Smart Manufacturing and Materials	2021
39	Kumar, Navneet; Sharma, Gaurav Kumar; Singh, Desh Bandhu; Sharma, Anuj Kumar; Sharma, Sanjeev Kumar;	Effect of Grain Size on the Rheology of Fly Ash Slurry	Advances in Geotechnics and Structural Engineering	2021
40	Anuj Raturi, Desh Bandhu Singh, Pravin P Patil, Anuj Kumar Sharma;	Sensitivity analysis of solar still of single slope type included with N similar evacuated tubular collectors having series connection	Desalination and Water Treatment	2021
41	Kumar, Harish; Sharma, Anuj; Shrivastava, Yogesh; Khan, Shahroz Akhtar; Arora, Pawan Kumar;	Optimization of process parameters of pin on disc wear set up for 3D printed specimens	Journal of Engg. Research EMSME Special Issue pp	2021
42	Sharma, Anuj; Kumar, Rajesh;	Potential use of minimum quantity lubrication (MQL) in machining of biocompatible materials using environment friendly cutting fluids: An overview	Materials Today: Proceedings	2021
43	Rajput, Sudhir Kumar; Kaushal, Abhishek; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	A Study and Fabrication of SMA based 3D Printed Adaptive Gripper	2021 Smart Technologies, Communication and Robotics (STCR)	2021

44	Kisan, Unni; Dubey, Vineet; Sharma, Anuj Kumar; Mital, Arun;	Synthesis of Groundnut Shell/Rice Husk Hybrid Composite–A Review	IOP Conference Series: Materials Science and Engineering	2021
45	Darshan, Shiv; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	A Novel Method to Develop an Origami based Crawler Robot	2021 Smart Technologies, Communication and Robotics (STCR)	2021
46	Dubey, Vineet; Sharma, Anuj Kumar; Vats, Prameet; Pimenov, Danil Yurievich; Giasin, Khaled; Chuchala, Daniel;	Study of a multicriterion decision-making approach to the Mql turning of Aisi 304 steel using hybrid nanocutting fluid	Materials	2021
47	Malhotra, A; Sharma, A; Sharma, D; Ahmed, F;	Résumé builder over rejuvenated AI features in website development	Smart Computing	2021
48	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai; Singh, Rabesh Kumar;	Measurement of machining forces and surface roughness in turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid	Measurement	2020
49	Dubey, Vineet; Sharma, Anuj Kumar; Singh, Rabesh Kumar;	Study of various cooling methodology used in machining processes	Materials Today: Proceedings	2020
50	Sharma, Anuj Kumar; Singh, Rabesh Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai; Katiyar, Jitendra Kumar;	Rheological behaviour of hybrid nanofluids: A review	Tribology in Materials and Applications	2020
51	Mohanta, Neha; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	Online monitoring system for tool wear and fault prediction using artificial intelligence	2020 International Conference on Contemporary Computing and Applications (IC3A)	2020
52	Dwivedi, Vivek; Kaushal, Abhishek; Singh, Rabesh Kumar; Sharma, Anuj Kumar;	Analysis of an adaptive vibration absorber in robotics using ferrofluid	2020 International Conference on Contemporary Computing and Applications (IC3A)	2020
53	Koiri, Mithilesh Kumar; Sharma, Anuj Kumar; Singh, Rabesh Kumar;	Design of SMA based Electro-Hydraulic/Pneumatic Actuated Robotic Octopus Arm	2020 International Conference on Contemporary Computing and Applications (IC3A)	2020
54	Mohanta, Neha; Gupta, Amit; Singh, Rabesh Kumar; Sharma, Anuj Kumar; Chauhan, Saurabh;	Control Dynamics and Motion Estimation for Chaotic Three-Link Robotic Manipulator	2020 International Conference on Contemporary Computing and Applications (IC3A)	2020

55	Dubey, Vineet; Sharma, Anuj Kumar; Singh, Rabesh Kumar;	A Technological Review on Temperature Measurement Techniques in Various Machining Processes	Lecture Notes in Mechanical Engineering:55-67: Advances in Metrology and Measurement of Engineering Surfaces	2020
56	Khan, Juwairiya Siraj; Sharma, Anuj K; Hazarika, Shyamanta M;	Estimating Corticomuscular Coherence using Kernel Partial Least Square	2020 International Conference on Contemporary Computing and Applications (IC3A)	2020
57	Gupta, Amit; Gupta, Ankit; Kaushal, Abhishek; Chaubey, Anurag; Sharma, Anuj Kumar;	Reactive power planning using swarm evolutionary techniques	2020 2nd International Conference on Advances in Computing, Communication Control and Networking (ICACCCN)	2020
58	Pandey, Kuldeep; Dubey, Vineet; Sharma, Anuj Kumar; Mital, Arun;	State of art on tribological behaviour of nanoparticle enriched cutting fluid	Materials Today: Proceedings	2020
59	Bhaumik, Shubrajit; Paleu, Viorel; Pathak, Rajan; Maggirwar, Rishabh; Katiyar, Jitendra Kumar; Sharma, Anuj Kumar;	Tribological investigation of r-GO additived biodegradable cashew nut shells liquid as an alternative industry lubricant	Tribology International	2019
60	Sharma, Anuj Kumar; Singh, Rabesh Kumar; Dixit, Amit Rai; Tiwari, Arun Kumar; Singh, Mahip;	An investigation on tool flank wear using Alumina/MoS 2 hybrid nanofluid in turning operation	Advances in Manufacturing Engineering and Materials: Proceedings of the International Conference on Manufacturing Engineering and Materials (ICMEM 2018), 18–22 June, 2018, Nový Smokovec, Slovakia	2019
61	Khan, Juwairiya Siraj; Koiri, Mithilesh Kumar; Raj, Manish; Sharma, Anuj Kumar; Singh, Rabesh Kumar;	Actuation and fabrication of human inspired artificial hand	2019 4th International Conference on Information Systems and Computer Networks (ISCON)	2019

62	Mohanta, Neha; Mishra, Rishish; Sharma, Anuj K; Raj, Manish;	Design and Control Dynamics of Multi-Fingered Prosthetic Hand	2019 4th International Conference on Information Systems and Computer Networks (ISCON)	2019
63	Dwivedi, Vivek; Raj, Manish; Yadav, Ajeet; Sharma, Anuj Kumar;	Additive Fabrication and Additive Technique: A Survey	2019 4th International Conference on Information Systems and Computer Networks (ISCON)	2019
64	Sharma, Anuj K; Tiwari, Arun K; Dixit, Amit R; Singh, Rabesh K;	Hybrid Nanoparticles Enriched Cutting Fluids in Machining Processes		2019
65	Shil, Arnav; Roy, Sandipan; Balaji, PS; Katiyar, Jitendra Kumar; Pramanik, Sumit; Sharma, Anuj Kumar;	Experimental analysis of mechanical properties of stir casted aluminium-graphene nanocomposites	IOP Conference Series: Materials Science and Engineering	2019
66	Sharma, AK; Tiwari, AK; Dixit, AR; Singh, RK; Singh, M;	Novel uses of alumina/graphene hybrid nanoparticle additives for improved tribological properties of lubricant in turning operation	Tribology International	2018
67	Katiyar, Jitendra K; Sharma, Anuj Kumar; Pandey, Basant;	Synthesis of iron-copper alloy using electrical discharge machining	Materials and Manufacturing Processes	2018
68	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	2018
69	Sharma, AK; Katiyar, JK; Bhaumik, S; Roy, S;	Influence of alumina/MWCNT hybrid nanoparticle additives on tribological properties of lubricants in turning operations	Friction	2018
70	Rathaur, AS; Katiyar, JK; Patel, VK; Bhaumik, S; Sharma, AK;	A comparative study of tribological and mechanical properties of composite polymer coatings on bearing steel	International Journal of Surface Science and Engineering	2018
71	Katiyar, Jitendra Kumar; Bhaumik, Shubrajit; Ashok, Ashwin; Sharma, Anuj Kumar;	Physiochemical Properties of Hexagonal Boron Nitride Blended Coconut Oil	Proceedings of TRIBOINDIA-2018 An International Conference on Tribology	2018
72	Singh, R; Dixit, A; Sharma, A; Tiwari, A; Mandal, Vimal; Pramanik, Alokesh;	Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants	International Journal of Surface Science and Engineering	2018

73	Singh, Rabesh Kumar; Sharma, Anuj Kumar; Mandal, Vimal; Gaurav, Kumar; Sharma, Abhishek; Kumar, Amit; Dixit, Amit Rai; Mandal, Amitava; Das, Alok Kumar;	Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication	IOP Conference Series: Materials Science and Engineering	2018
74	kumar Singh, Rabesh; Sharma, Anuj Kumar; Mandal, Vimal; Gaurav, Kumar; Nag, Akash; Kumar, Amit; Dixit, Amit Rai; Mandal, Amitava; Das, Alok Kumar;	Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation	Materials Today: Proceedings	2018
75	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai; Singh, Rabesh Kumar;	Investigation into Performance of SiO2 Nanoparticle Based Cutting Fluid in Machining Process	Materials Today: Proceedings	2017
76	Singh, Rabesh Kumar; Sharma, Anuj Kumar; Dixit, Amit Rai; Tiwari, Arun Kumar; Pramanik, Alokesh; Mandal, Amitava;	Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning	Journal of cleaner production	2017
77	Singh, R.K.; Dixit, A.R.; Mandal, A; Sharma, A.K.;	Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2017
78	Sharma, AK; Singh, RK; Dixit, AR; Tiwari, AK;	Novel uses of alumina-MoS2 hybrid nanoparticle enriched cutting fluid in hard turning of AISI 304 steel	Journal of Manufacturing Processes	2017
79	Singh, Rabesh Kumar; Sharma, Anuj Kumar; Dixit, Amit Rai; Tiwari, Arun Kumar; Mandal, Amitava;	Preparation and characterization of nanoparticles mixed cutting fluids	Advanced Materials Proceedings	2017
80	Singh, RK; SHarma, AK; Dixit, AR; Mandal, A; Tiwari, AK;	Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids	Materials Today:Proceedings ICAAMM-2016	2017
81	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	Conference: COPEN 2017 at IIT Madras-10th International Conference on Precision, Meso, Micro and Nano Engineering IITM hennai	2017

82	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Rheological behaviour of nanofluids: A review	Renewable and Sustainable Energy Reviews	2016
83	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Effects of Minimum Quantity Lubrication (MQL) in machining processes using conventional and nanofluid based cutting fluids: A comprehensive review	Journal of cleaner production	2016
84	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Characterization of TiO2, Al2O3 and SiO2 Nanoparticle based cutting fluids	Materials Today: Proceedings	2016
85	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Singha, Rabesh Kumar; Dixit, Amit Rai;	Tribological Investigation of TiO2 Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL)	Materials Today: Proceedings	2016
86	Sharma, Anuj Kumar; Singh, Rabesh Kumar; Dixit, Amit Rai; Tiwari, Arun Kumar;	Characterization and experimental investigation of Al2O3 nanoparticle based cutting fluid in turning of AISI 1040 steel under minimum quantity lubrication (MQL)	Materials Today: Proceedings	2016
87	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Improved machining performance with nanoparticle enriched cutting fluids under minimum quantity lubrication (MQL) technique: a review	Materials Today: Proceedings	2015
88	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Mechanism of nanoparticles functioning and effects in machining processes: a review	Materials Today: Proceedings	2015
89	Singh, RK; Sharma, AK; Jatav, A; Kumar, S; Bajaj, R; Dixit, AR; Das, AK; Mandal, A; Chattopadhyaya, S;	Tribological Analysis of AISI 304 Material on Turning Process Using Coated Carbide Tool	2nd National conference on Mining Equipment: New Technologies, Challenges & Applications (MENTCA) 2015	2015
90	Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai;	Progress of Nanofluid Application in Machining: A Review	Materials and Manufacturing Processes	2014
91	Singh, Rabesh Kumar; Sharma, Anuj Kumar; Jatav, Amit; Kumar, Shakti; Bajaj, Rajesh; Dixit, Amit Rai;	Turning Process Using Coated Carbide Tool		

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