

Profile Page



Name : Dr Nitin Sharma

Designation : Assistant Professor

Department : Mechanical Engineering

Qualification : PhD Design and Tribology (National Institute of Technology-Hamirpur)
M. Tech. CAD/CAM (National Institute of Technology-Hamirpur)
B. Tech. Mechanical Engineering (Punjab Technical University-Jalandhar)

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Research Interests :

Design and Tribology of Bearings, Porous Journal Bearings, Hydrodynamic Lubrication, Surface Texturing, Non-Newtonian Fluid Rheology

Other Profile Links :

Google Scholar Link :

Google Scholar Nitin [Click Here](#)

Personal Web Link :

Nitin Sharma [Click Here](#)[Nitin Sharma](#) [Click Here](#)

Journal Publications :

Year	Journal	Publication
2020	Tribology Online, Vol. 15, No. 4, pp. 265-282	M. Arif, D.K. Shukla, S. Kango, N. Sharma, Implication of Surface Texture and Slip on Hydrodynamic Fluid Film Bearings: A comprehensive survey
2020	Tribology in Industry, Vol. 42, No. 3, pp. 370-381	N. Sharma and S. Kango, Influence of high permeability parameter on the performance of textured porous journal bearings
2019	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology Vol. No. 233 (10), pp. 1541-1553	N. Sharma, S. Kango, R. K. Sharma, Adiabatic analysis of micro textured porous journal bearings functioned with power law fluid model

2016	Tribology Transactions, vol. 59, pp. 579-584.	Nitin Sharma, Saurabh Kango, Ashwani Tayal, Rajesh Kumar Sharma and Sunil, "Investigations on the influence of surface texturing on a couple stress fluid based Journal bearing by using JFO boundary conditions"
2016	International journal of surface science and engineering, vol. 10, pp. 485-502.	Nitin Sharma, Rajesh Kumar Sharma, Sunil and Saurabh Kango, "A comparative study for lubrication of surface textured porous journal bearing with two different non-Newtonian fluid models"
2014	International journal of surface science and engineering, vol. 8, pp. 392-407.	Nitin Sharma, Saurabh Kango, Rajesh Kumar Sharma and Sunil, "Investigations on the effects of surface texture on the performance of a porous journal bearing operating with couple stress fluids"

Conference Publications :

Year	Conference	Publication
2020	International Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2020) August 21-23, 2020	Mohammad Arif, Saurabh Kango, D K Shukla, Nitin Sharma, Effect of Optimized Slip & Texture Zone on the Performance of Hydrodynamic Journal Bearing
2019	6th INTERNATIONAL CONFERENCE ON PRODUCTION AND INDUSTRIAL ENGINEERING (CPIE-2019)	Veerendra Kumar, S.K. Tiwari, Nitin Sharma and Saurabh Kango
2019	6th INTERNATIONAL CONFERENCE ON PRODUCTION AND INDUSTRIAL ENGINEERING (CPIE-2019)	Mohammad Arif, Saurabh Kango, Dinesh Kumar Shukla and Nitin Sharma
2019	1st INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE and ENGINEERING (ICMSE-2019)	Shivam Verma, Veerendra Kumar, S.K. Tiwari and Nitin Sharma
2019	17th HWWE Conference	Veerendra Kumar, Shivam Verma, S.K. Tiwari and Nitin Sharma "A comprehensive review on role of impact angle on erosion for different types of steels"
2019	17th HWWE Conference	Shivam Verma, Veerendra Kumar, S.K. Tiwari and Nitin Sharma "Investigations on the wear characterization of PEEK based CNT composites"
2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, December 05-07, 2019, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001	A. Bhadania, S. Kango and N. Sharma "A review on Poly Methyl Methacrylate (PMMA) based composites"
2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, December 05-07, 2019, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001	Sharma, N., Singh, A., Kango, S., Progress in surface texturing and lubricant rheology on hydrodynamic fluid film bearings.
2018	19th ISME conference- Advances in Mechanical Engineering, NIT Jalandhar (20-22 December, 2018)	Shivam Verma, Nitin Sharma and S.K. Tiwari
2018	19th ISME conference- Advances in Mechanical Engineering, NIT Jalandhar (20-22 December, 2018)	V. Kumar, D. Singh, S. S. Sandhu, N. Sharma and S. K. Tiwari

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Optimization Methods in Engineering. Lecture Notes on Multidisciplinary Industrial Engineering.	A Comprehensive Review on Effect of Different Parameters of Solid Particle Erosion in Pipeline System https://doi.org/10.1007/978-981-15-4550-4_37	Springer	V. Kumar, S. K. Tiwari, N. Sharma, S. Kango	978-981-15-4550-4	2020
Manufacturing Engineering Select Proceedings of CPIE 2019	Adiabatic Analysis of Spherical and Cylindrical Textured Hydrodynamic Journal Bearing https://doi.org/10.1007/978-981-15-4619-8_35	Springer	M. Arif, S. Kango, D.K. Shukla, N. Sharma	978-981-15-4619-8	2020

Professional Affiliations :

Designation	Organization
Reviewer	Industrial Lubrication and Tribology
Reviewer	Indian Journal of Engineering & Materials Sciences

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Shivam Verma	Experimental and simulation studies on the behaviours of PEEK based composites	Ongoing	2019	
Veerendra Kumar	Investigations on the effect of atmospheric corrosion on different coated and uncoated steels	Ongoing	2018	Dr. S.K. Tiwari

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Shivam Verma	Development, characterization and tribological investigations of PEEK (Poly Ether Ether Ketone)/CNT based composites	Awarded	2019	Dr S.K.Tiwari
Vijay Saini	Design and development of an experimental setup for trajectory control and force control of prosthetic fingers by a tendon based actuation system in MATLAB	Awarded	2019	Dr Joseph A. VAZ
Abhinav Kumar Mishra	Denosing bearing vibration signal through empirical mode decomposition	Awarded	2019	Dr S.K.Tiwari
Amit bhadania	Fabrication and characterization of of PMMA/SiC based Composites	Ongoing	2019	

Admin. Responsibilities :

Position Held	Organization	From	To
Assistant Controller of Examination	NIT Jalandhar	27/02/2019	till date
Coordinator, Training and Placement	Deptt. of Mechanical Engineering, NIT Jalandhar	22-01-2018	28-03-2019
Member, Unnat Bharat Abhiyan (UBA) Cell	NIT Jalandhar	25-07-2018	till date