

Profile Page



Name : Dr Saurabh Kango

Designation : Assistant Professor Grade-i

Department : Mechanical Engineering

Qualification : PhD Mechanical Engineering (Tribology) (NIT Hamirpur)
M. Tech Mechanical Engineering (Computational Fluid Dynamics & Heat Transfer) (NIT Hamirpur)
B. Tech Mechanical Engineering (HPU Shimla (IET Baddi))
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Research Interests :

CFD analysis of Different Tribological Systems; Micro Surface Texturing/Grooving; Non-Newtonian Rheologies of lubricants; Tribological study of treated surfaces

Other Profile Links :

Google Scholar Link :

Saurabh Kango [Click Here](#)

Personal Web Link :

ResearchGate [Click Here](#)

publons [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	Surface Topography: Metrology and Properties, Volume 10, Number 1, 015002	Arif, M., Kango, S., Shukla, D. K., Effect of Slip Boundary Condition and Non-Newtonian Rheology of Lubricants on the Dynamic Characteristics of Finite Hydrodynamic Journal Bearing
2022	Materials Today Communications, 105201	Gupta, R., Verma, R., Kango, S., Constantin, A., Kharia, P., Saini, R., ... & Chamoli, P. (2022). A Critical Review on Recent Progress, Open Challenges, and Applications of Corrosion-resistant Superhydrophobic Coating.

2022	International Journal of Mechanical Sciences, 228, 107458	Arif, M., Kango, S., Shukla, D.K., Analysis of textured journal bearing with slip boundary condition and pseudoplastic lubricants
2022	Physica Scripta,97, 055702	Shivam Verma, Ashok Kumar, Saurabh Kango: Bagha, Shashi Bahl Bahl, Finite element model updating of smart structures with direct updating algorithm
2022	International Journal of Surface Engineering and Interdisciplinary Materials, 10 (1), 1-13	Singh, S., Kumar, V., Kango, S., Verma, R., Sharma, N., Fabrication and evaluation of superhydrophobic surfaces using carbon soot and different adhesives
2022	Tribology in Industry, 44, 508-517	Kango, S., Sharma, N., Sharma, R. K., Pandey, R. K., Experimental Investigations on Temperature and Frictional Behaviors of Textured Journal Bearings
2021	Surface Topography: Metrology and Properties, 9, 013002	Sharma, Nitin; Verma, Rajeev; Sharma, Sumit; Kango, Saurabh, Qualitative potentials of surface textures and coatings in the performance of fluid-film bearings: A critical review
2021	European Polymer Journal, 147,110295	Shivam Verma , Nitin Sharma, Saurabh Kango and Sumit Sharma, Developments of PEEK (Polyetheretherketone) as a biomedical material: A focused review ?
2021	Materials Performance and Characterization 10, no. 1 (2021): 674–699.	D. Bedi, S. Sharma, S. Kango, N. Sharma, and P. Rakt Patel, “Effect of Coating of Carbon Nanotubes on Mechanical Properties of Polymer Composites: A Review,”
2021	Industrial Lubrication and Tribology, 73 (6),872-881	Arif, M., Kango, S., Shukla, D. K., Investigating the effect of different slip zone locations on the lubrication performance of textured journal bearings
2021	Proceedings of IMechE, Part J: Journal of Engineering Tribology, 235 (11), 2474–2499	S. Singh, S. Kango, N. Sharma, R. Verma, "Recent advances in the mechanical durability of superamphiphobic surfaces: A review"
2021	Surface Topography: Metrology and Properties, Vol 9 (2), 025037	Arif, M., Kango, S., Shukla, D.K. Thermal Analysis of Journal bearing with controlled slip/no-slip boundary condition and Non-Newtonian Rheology of lubricant
2021	Materials Today Communications, 26, 101736-1-18	Vijay Kuma, Rajeev Verma, Saurabh Kango, Vishal S Sharma, Recent progresses and applications in Laser-based surface texturing systems
2020	Heat and Mass Transfer,56, 531–546	Issac. J., Singh, D. Kango, S., EXPERIMENTAL AND NUMERICAL INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF JET IMPINGEMENT ON A FLAT PLATE
2020	Arabian Journal for Science and Engineering, 45, 9449–9470	Naseem, M., Verma, R., Kango, S, THERMO-MECHANICAL EVALUATION OF SLURRY-SPRAYED MULLITE BASED MULTI-LAYERED COATINGS
2020	Tribology Online, 15 (4), 265-282	Arif, M., Shukla, D.K., Kango, S., Sharma, N., Implication of Surface Texture and Slip on Hydrodynamic Fluid Film Bearings: A comprehensive survey
2020	Transactions of The Indian Institute of Metals,73, 1015–1026	Kumar, V., Verma, R., Kango, S., Micro-texturing of a WC–10Co–4Cr-Coated ASTM A479 Steel to Form a Super-Hydrophobic Surface
2020	Tribology in Industry, 42 (3), 370-381	Sharma, N., Kango, S., Influence of high permeability parameter on the performance of textured porous journal bearings
2019	Journal of Physics: Conference Series , Volume-1240, 1-9	Jagotra A.,Singh, D K, Sandhu, S S, Kango, S., Bhadauria, S S., Experimental investigation on performance and emission characteristics of single cylinder CI engine using waste cooking oil (WCO) with diethyl ether (DEE)
2019	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Vol. 223 (10), 1541-1553	Sharma N, Kango S, Sharma, R. K., Adiabatic analysis of micro textured porous journal bearings functioned with power law fluid model

2016	International journal of surface science and engineering 2016 vol. 10 (5) 485–502	Sharma N, Sharma RK, Sunil, Kango S, A comparative study for lubrication of surface textured porous journal bearing with two different non-Newtonian fluid models.
2016	Tribology Transactions 2016 vol. 59 579-584	Sharma N, Kango S, Tayal, A., Sharma RK, Sunil, Investigations on the influence of surface texturing on a couple stress fluid based Journal bearing by using JFO boundary conditions
2014	Tribology International 2014 69 19-29	Kango S, Sharma RK, Pandey RK, Thermal analysis of microtextured journal bearing using non-Newtonian rheology of lubricant and JFO boundary conditions
2014	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology 2014 vol. 228 82-95	Kango S, Sharma RK, Pandey RK, Comparative analysis of textured and grooved hydrodynamic journal bearing
2014	International journal of surface science and engineering 2014 vol. 8 392-407	Sharma N, Kango S, Sharma RK, Sunil, Investigations on the effects of surface texture on the performance of a porous journal bearing operating with couple stress fluids
2012	Meccanica 2012; 47: 469-482	Kango S, Singh D, Sharma R K Numerical investigation on the influence of surface texture on the performance of hydrodynamic journal bearing
2010	International Journal of Surface Science and Engineering, 2010; 4(4/5/6): 505-524	Kango S, Sharma RK Studies on the influence of surface texture on the performance of hydrodynamic journal bearing using power law model.
12/2022	Materials Today Communications, 105201	Gupta, R., Verma, R., Kango, S., Constantin, A., Kharia, P., Saini, R., ... & Chamoli, P. (2022). A Critical Review on Recent Progress, Open Challenges, and Applications of Corrosion-resistant Superhydrophobic Coating.

Conference Publications :

Year	Conference	Publication
2023	International Conference on Emerging Aspects of Manufacturing, Thermal and Design Engineering, NIT Hamirpur from 15-17, Feb, 2023	Arif, M., Kango, S., Shukla, D K, Sharma, N., Steady state performance of square textured journal bearing with superamphiphobic coating
2023	International Conference on Emerging Aspects of Manufacturing, Thermal and Design Engineering, NIT Hamirpur from 15-17, Feb, 2023	Sartaj Singh, Saurabh Kango, Mohammad Arif and Rajeev Verma, Effect of different locations of micro-textures and slip boundary condition on the hydrodynamic performance of slider bearings
2022	ICMSE-2022, 11-12 June, 2022, Dr B R Ambedkar NIT Jalandhar	Jitendra Satyarathi, Vijay Kumar, Saurabh Kango, Nitin Sharama, Rajeev Verma, FABRICATION OF SUPERHYDROPHOBIC SURFACE ON LOW CARBON STEEL
2022	ICMSE-2022, 11-12 June, 2022, Dr B R Ambedkar NIT Jalandhar	Ajay Laxman Godase, Nitin Sharma, Saurabh Kango, Md Arif, Investigating the effects of chevron-textures on the performance of a porous journal bearing
2021	2nd Virtual International Tribology Research Symposium (ITRS 2021), 8th to 10th December 2021	Shivam Verma, Nitin Sharma, Saurabh Kango, Significance of Biotribology in Advanced Biomedical Applications: A Review
2021	2nd Virtual International Tribology Research Symposium (ITRS 2021), 8th to 10th December 2021	Mohammad Arif, Saurabh Kango, Dinesh Kumar Shukla, Nitin Sharma, Stability analysis of Finite Textured Journal Bearing with the Effect of Lubricant Slippage

2021	CAMSE-2021, 17-19 July, Dr B R Ambedkar NIT Jalandhar	Mohammad Arif , Chandan Sahoo , Saurabh Kango, Dinesh Kumar Shukla, Nitin Sharma, Effect of Controlled Lubricant and Surface Condition on the Performance of Journal Bearings.
2021	CAMSE-2021, 17-19 July, Dr B R Ambedkar NIT Jalandhar	Sartaj Singh, Prashant Nimbolkar, Saurabh Kango, Nitin Sharma, Combined effect of texture and coating on the performance of slider bearings.
2020	International Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2020) August 21-23, 2020	Dushyant Singh & Saurabh Kango, Numerical Study of Slot Jet Impingement on a Cylinder by using Two Equation Turbulence Models
2020	International Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2020) August 21-23, 2020	Md. Arif, Saurabh Kango, D K Shukla, Nitin Sharma, Effect of Optimized Slip & Texture Zone on the Performance of Hydrodynamic Journal Bearing
2020	International Conference on “Advances in Materials Processing & Manufacturing Applications - 2020 (iCADMA 2020), MNIT Jaipur, December 2020	AS Thakur, N Sharma, S Kango, S Sharma, Effect of nanoparticles on epoxy based composites: A short review
2020	International Conference on “Advances in Materials Processing & Manufacturing Applications - 2020 (iCADMA 2020), MNIT Jaipur	V Kumar, N Sharma, SK Tiwari, S Kango, Atmospheric corrosion of materials and their effects on mechanical properties: A brief review
2020	International Conference on “Advances in Materials Processing & Manufacturing Applications - 2020 (iCADMA 2020), MNIT Jaipur	Sartaj Singh, Saurabh Kango, Nitin Sharma, and Sumit Sharma, Recent Advances of Reinforced Natural Polymers: A review
2020	International Congress on Advances in Materials Science and Engineering (CAMSE-2020)	Prashant G. Nimbolkar, Saurabh Kango, Nitin Sharma, Rajeev Verma, Effect of slip on hydrodynamic textured parallel plate bearings
2019	6th International Conference on Production & Industrial Engineering (CPIE 2019), 8-10th June, 2019, Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar	Jagotra, A., Sandhu, S S., Kango, S., Emission analysis of a diesel engine fueled with argemone biodiesel and its blends, Paper ID: CPIE-2019_20
2019	6th International Conference on Production & Industrial Engineering (CPIE 2019), 8-10th June, 2019, Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar	Raj, R., Kango, S., Sandhu, S S., Mechanical stability of fabricated superhydrophobic aluminum alloy, Paper ID: CPIE-2019_39
2019	6th International Conference on Production & Industrial Engineering (CPIE 2019), 8-10th June, 2019, Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar	Arif, M., Kango, S., Shukla, D K., Sharma, N., Adiabatic analysis of cylindrical textured hydrodynamic journal bearing, Paper ID: CPIE-2019_66
2019	6th International Conference on Production & Industrial Engineering (CPIE 2019), 8-10th June, 2019, Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar	Kumar, V., Tiwari, S.K., Sharma, N., Kango, S., Effect of different parameters of solid particle erosion in the pipeline system: A review, Paper ID: CPIE-2019_252
2019	1st International Conference on Material Science & Engineering (ICMSE-2019), 11-12 June, 2019, Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar	Raj, R., Kango, S., Sandhu, S S., Fabrication of hydrophobic and super hydrophobic aluminum surfaces, Paper ID: ICMSE-2019_27
2019	1st International Conference on Material Science & Engineering (ICMSE-2019), 11-12 June, 2019, Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar	Arora, K., Bansal, P., Sharma, S., Sanchan, S., Arif, M., Kango, S., Preparation of water repellent glass slides with combined effect of candle soot and surface roughness, Paper ID: ICMSE-2019_116

2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001, December 05-07, 2019	Sharma, N., Singh, A., Kango, S., Progress in surface texturing and lubricant rheology on hydrodynamic fluid film bearings, Paper ID: 17 A
2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001, December 05-07, 2019	Bhadania, A., Kango, S., Sharma, N., A comprehensive review on PMMA (poly methyl methacrylate) based composites, Paper ID: 17-D
2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001, December 05-07, 2019	Singh, S., Arif, M., Kango, S., Shukla, D.K., Mechanical Durability of Superamphiphobic Surfaces: A Review, Paper ID: 27-A
2019	7th International and 9th Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Department of Mechanical Engineering & Department of Metallurgical and Materials Engineering, INDIAN INSTITUTE OF TECHNOLOGY ROPAR Rupnagar, Punjab, INDIA - 140001, December 05-07, 2019	Arif, M., Kango, S., Shukla, D.K., Effect of Slip on the Performance of Hydrodynamic Textured Journal Bearing, Paper ID: 27-B
2019	International conference on Recent advances in Mechanical Infrastructure, Institute of Infrastructure Technology Research and Management (IITRAM), Ahmedabad, Gujarat, India April 20-21, 2019	Singh, D., Kango, S., Fluid flow study of circular jet impingement on flat plate
2019	2nd international conference on New Frontiers in Engineering Science & Technology, NIT Kurukshetra, Feb. 18-22, 2019	Jagotra A., Singh, D K, Sandhu, S S, Kango, S., Bhadauria, S S., Experimental investigation on performance and emission characteristics of single cylinder CI engine using waste cooking oil (WCO) with diethyl ether (DEE)
2018	19th ISME conference- Advances in Mechanical Engineering, NIT Jalandhar (20-22 December, 2018)	Thakur, S.K., Kango, S., Vaibhav, S., Effects of different types of surface textures and grooves on lubrication applications: An experimental review

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Recent Advances in Mechanical Infrastructure	Effect of Optimized Slip and Texture Zone on the Performance of Hydrodynamic Journal Bearing	Springer, Singapore	Mohammad Arif, Saurabh Kango, Dinesh Kumar, Shukla Nitin, Sharma	Online ISBN 978-981-33-4176-0	2021

Recent Advances in Mechanical Infrastructure	Numerical Study of Slot Jet Impingement on a Cylinder by Using Two-Equation Turbulence Models	Springer, Singapore	Dushyant Singh and Saurabh Kango	Online ISBN 978-981-33-4176-0	2021
Recent Advances in Mechanical Infrastructure (Proceedings of ICRAM 2019)	Fluid flow study of circular jet impingement on flat plate	Springer Nature Singapore Pte Ltd., Published, https://link.springer.com/chapter/10.1007/978-981-32-9971-9_20	Dushyant Singh, Saurabh Kango	978-981-32-9970-2	2020
Manufacturing Engineering Select Proceedings of CPIE 2019	Mechanical Stability of Fabricated Superhydrophobic Aluminium Alloy and Enhancement of Its Oleophobic Characteristics	Springer	Raj, R., Kango, S., Sandhu, S. S.	978-981-15-4619-8	2020
Manufacturing Engineering Select Proceedings of CPIE 2019	Adiabatic Analysis of Spherical and Cylindrical Textured Hydrodynamic Journal Bearing	Springer	Arif, M., Kango, S., Shukla, D.K., Sharma, N.,	978-981-15-4619-8	2020
Optimization Methods in Engineering Select Proceedings of CPIE 2019	A Comprehensive Review on Effect of Different Parameters of Solid Particle Erosion in Pipeline System	Springer	Kumar, V., Tiwari, S.K., Sharma, N., Kango, S.,	978-981-15-4549-8	2020

Events Organized :

Category	Type	Title	Venue	From	To	Designation
FDP	National	Future Scope in Engineering Materials and Tribology	Dr B R Ambedkar National Institute of Technology Jalandhar	15/09/2020	19/09/2020	Coordinator

Professional Affiliations :

Designation	Organization
Reviewer	Tribology International
Reviewer	Tribology Transaction
Reviewer	Proceedings of the institution of Mechanical Engineers Part J- Journal of engineering tribology
Reviewer	AEJ - Alexandria Engineering Journal
Reviewer	Thermal Science Journal

Reviewer	Advances in Mechanical Engineering
Life Member (LM#S-5076)	Tribology Society of India
Life Member (LM-10055)	Society of Materials and Mechanical Engineers (SOMME)
Life Member (LM No: L-1216)	Indian Society of Mechanical Engineers (ISME)
Reviewer	Heat Transfer
Reviewer	High Performance Polymers

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ms Uma Sharma	Welding	On going	2022-2025	Dr Dinesh K Shukla
Sartaj Singh	Tribology	On-going	2019-22	
Mohammad Arif	Tribological studies of surface treated surfaces	On-going	2018-21	Dr D K Shukla

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Pratap Yadav	Numerical Investigation of Textured Mechanical Seals	On going	2023	
Amrinder Khilla	Fabrication of super hydrophobic aluminum surface	On going	2023	Dr Rajeev Verma
Wasre Pratik Pandit	Linear stability of hydrodynamic journal bearing	On going	2023	
Tanuj Kumar Thakur	Experimental study to evaluate the effect of fiber orientation on the vibrational properties of a composite lamina	Awarded	2022	Dr Ashok Kumar Bagha
SHIVAM VERMA	ACTIVE VIBRATION CONTROL AND FINITE ELEMENT MODEL UPDATING OF SMART STRUCTURE	Awarded	2022	Dr Ashok Kumar Bagha
Prashant G. Nimbolkar	Thermal analysis of textured parallel plate bearings with controlled slip/no-slip boundary condition	Awarded	2021	
Lalit Kumar	Simulated and experimental study to evaluate the mode shapes of an isotropic and a transversely isotropic composite plate using Chladni setup	Awarded	2021	
CHANDAN KUMAR SAHOO	NUMERICAL INVESTIGATION OF INCLINED SLIDER BEARING USING MICRO-TEXTURE AND SLIP BOUNDARY CONDITION	Awarded	2021	
Rishab Raj	MECHANICAL STABILITY OF FABRICATED SUPERHYDROPHOBIC ALUMINIUM ALLOY SURFACES AND ENHANCEMENT OF ITS OLEOPHOBIC CHARACTERISTICS	Awarded	2018-2019	Dr S S Sandhu
Alok Kumar	Effect of surface roughness on friction stir welding joints	Awarded	2018-2019	Dr D K Shukla
Aaditya JaGOTRA	Studies on the influence of metal contaminants and antioxidants on the oxidation stability of Apricot Biodiesel	Awarded	2018-2019	Dr S S Sandhu

Admin. Responsibilities :

Position Held	Organization	From	To
NBA Convenor	NIT Jalandhar	10-01-2018	28-03-2019
coordinator (Examination)	NIT Jalandhar	10-01-2018	Till date
Assistant Coordinator (Institute Newsletter)	NIT Jalandhar	28-02-2019	01-03-2021
PhD Admission Committee (Convenor)	NIT Jalandhar	29-03-2019	27-07-2022
Faculty Co-advisor (Student faculty club, Sparak X)	NIT Jalandhar	29-03-2019	Till date
Co-coordinator (Institute Newsletter)	NIT Jalandhar	02-03-2021	10-05-2022
Co-coordinator (Print, Digital media & Newsletter)	NIT Jalandhar	11-05-2022	till date
Convener (Meeting Coordinator)	NIT Jalandhar	26-07-2022	till date
Faculty Coordinator (Annual reports, updation, Department Magazine)	NIT Jalandhar	26-07-2022	till date
Convener (Board of Studies (BOS) Committee)	NIT Jalandhar	27-07-2022	till date
Convener (Research Project/ Patent /Paper Committee)	NIT Jalandhar	27-07-2022	till date