



Department of Mechanical Engineering

S.No	Name of Faculty	Title of Book/Chapter Published	Title of Paper	Title of the proceedings of conference	Name of the Conference	Year of Publish	Name of publisher
1	Mohit Teacher		Effect on Micro-hardness and Abrasive Wear Resistance by Coating of Fe-Cr-C-X%B	Indian Society of Mechanical Engineers (ISME-2018)	Indian Society of Mechanical Engineers (ISME-2018)	Jun-20	ISME
2	Ovais Gulzar	Lecture notes in Mechanical Engineering	Thermal Performance Investigation of a Single Pass Solar Air Heater - Advances in Manufacturing and Industrial Engineering (ICAPIE 2019) Advances in Manufacturing and Industrial Engineering ((ICAPIE 2019)			Dec. 2019	Springer
3	Ovais Gulzar	Lecture notes in Mechanical Engineering	Experimental Analysis of portable optical solar water heater Advances in Manufacturing and Industrial Engineering (ICAPIE 2019) Advances in Manufacturing and Industrial Engineering ((ICAPIE 2019)			Dec. 2019	Springer
4	Mohd Junaid Mir		Adhesion Property of Self-lubricating Si/mos ₂ Nanocoating at Nano-scale Level	ICMSMT 2019	ICMSMT 2019	April 2019	IOP Science
5	Kaleem A Najar		Development of CVD-diamond-coated WC-Co Tools for Enhancing Tool Life in the Machining of Hard Metallic Alloys or Ceramics	Nanotechnology for Better Living	Nanotechnology for Better Living	Apr-19	Research Publishing, Singapore
6	Kaleem A Najar		Influence on temperature variation, tool wear and tool life with respect cutting speed on diamond-coated WC-Co inserts in the machining of Al-15% SiC alloy	Nanotechnology for Better Living	Nanotechnology for Better Living	Apr-19	Research Publishing, Singapore

7	Kaleem A Najar		Mathematical analysis carried out on the study of compatibility, delamination and load bearing capacity of synthetic diamond coatings	Nanotechnology for Better Living	Nanotechnology for Better Living	Apr-19	Research Publishing, Singapore
8	Mohd Junaid Mir		Influence of cutting fluid conditions on tool wear and surface roughness in hard turning AISI-D2 Steel using mixed ceramic tools	New Frontiers in Engineering, Science & Technology (NFEST-2019)	New Frontiers in Engineering, Science & Technology (NFEST-2019)	Feb. 2019	SSRN Elsevier
9	Mohd Junaid Mir		Tribological Characterization of Iron Based Ceramic Reinforced Self-lubricating Material	New Frontiers in Engineering, Science & Technology (NFEST-2019)	New Frontiers in Engineering, Science & Technology (NFEST-2019)	Feb. 2019	SSRN-Elsevier
10	Shuhaib Mushtaq		Tribological Characteristics of Fe-Cu-Sn Alloy with Molybdenum Disulfides a Solid Lubricant under Dry Conditions	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
11	Shuhaib Mushtaq		Comparative Assessment of Coated CBN and Multilayer Coated Carbide Tools on Tool Wear in Hard Turning AISID2 Steel	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
12	Shuhaib Mushtaq		Tribological performance of polytetrafluoroethylene (PTFE) in aqueous environments and dry sliding	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
13	Shuhaib Mushtaq		Nanomechanical Property of Max Phase Material Ti2AlC	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
14	Shuhaib Mushtaq		Nanoscratch Property of Self-lubricating Ti/MoS2 Nanocoating at Nano-scale Level	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
15	Mohd Junaid Mir		Tribological Characteristics of Fe-Cu-Sn Alloy with Molybdenum Disulfides a Solid Lubricant under Dry Conditions	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
16	Mohd Junaid Mir		Comparative Assessment of Coated CBN and Multilayer Coated Carbide Tools on Tool Wear in Hard Turning AISID2 Steel	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier

17	Mohd Junaid Mir		Tribological performance of polytetrafluoroethylene (PTFE) in aqueous environments and dry sliding	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
18	Mohd Junaid Mir		Nanomechanical Property of Max Phase Material Ti2AlC	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
19	Mohd Junaid Mir		Nanoscratch Property of Self-lubricating Ti/MoS2 Nanocoating at Nano-scale Level	TRIBOINDIA-2018: An International Conference on Tribology	TRIBOINDIA-2018: An International Conference on Tribology	Dec. 2018	SSRN-Elsevier
20	Shuhaib Mushtaq		Effect of graphite content and temperature on microstructure , mechanical & tribological properties of iron based powder metallurgy materials	Mechanical Engineering & Allied Sciences (ICMEAS-2018)	Mechanical Engineering & Allied Sciences (ICMEAS-2018)	Sept. 2018	
21	Ovais Gulzar		Application of Nanofluids in Solar Collectors: Overview and Future Prospectus	Mechanical Engineering & Allied Sciences (ICMEAS-2018)	Mechanical Engineering & Allied Sciences (ICMEAS-2018)	Sept. 2018	Gutenberg
22	Ovais Gulzar		Potential of Nanofluids for use in Solar Collectors	Innovative Trends in mechanical Engineering (NCITME-2018)	Innovative Trends in mechanical Engineering (NCITME-2018)	Mar-18	Gutenberg
23	Ovais Gulzar		Characterization of TiO2-H2O Nanofluids for Use in Solar Collectors	Jammu and Kashmir Science Congress (JKSC-2018)	Jammu and Kashmir Science Congress (JKSC-2018)	Mar-18	University of Kashmir
24	Azher Jameel		Effect of Inclusions on the Behavior of Cracks in Three Dimensional Engineering Components	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Dec-17	IIT Kharagpur
25	Azher Jameel		Three Dimensional Analysis of Cracks in Presence of Holes by FEM	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Dec-17	IIT Kharagpur
26	Azher Jameel		Level Set Methodology for Representing Different Discontinuities in Engineering Materials	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Dec-17	IIT Kharagpur
27	Azher Jameel		A state of Art Review on the Level Set Method for Modeling Discontinuities in Engineering materials	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Dec-17	IIT Kharagpur

28	Azher Jameel		Modeling of Large Elasto-Plastic Deformations in Two Dimensional Bi-material Components by FEM	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2017)	Dec-17	IIT Kharagpur
29	Azher Jameel		Three Dimensional Large Deformation Analysis by FEM Using Total Lagrangian Approach	Composite Materials and Structures- (ICCMS 2017)	Composite Materials and Structures- (ICCMS 2017)	Dec-17	IIT Hyderabad
30	Azher Jameel		Effect of Inclusions on the Shape and Size of Crack Tip Plastic Zones by Element Free Galerkin Method (EFGM)	Theoretical and Computational Mechanics (ICTCM-2017)	Theoretical and Computational Mechanics (ICTCM-2017)	Dec-17	ICTCM
31	Ovais Gulzar		Heat Transfer Enhancement using Aqueous CuO Nanofluids	Recent Trends and Advancements in Engineering and Technology (ICRTAET-2017)	Recent Trends and Advancements in Engineering and Technology (ICRTAET-2017)	Nov-17	Gutenberg
32	Shuhaib Mushtaq		Tribological and mechanical properties of PM Fe-Cu-Sn alloy containing graphite as a solid lubricant	Energy Aspects of Tribology for Sustainability Development (ICE-SEAM 2017)	Energy Aspects of Tribology for Sustainability Development (ICE-SEAM 2017)	Oct. 2017	Malyasian Tribology Society
33	Mohd Junaid Mir		Tribological and mechanical properties of PM Fe-Cu-Sn alloy containing graphite as a solid lubricant	Energy Aspects of Tribology for Sustainability Development (ICE-SEAM 2017)	Energy Aspects of Tribology for Sustainability Development (ICE-SEAM 2017)	Oct. 2017	Malyasian Tribology Society
34	Mahvash Afzal		Modelling and Simulation of a Hydrogen Storage Reactor Including Expansion Volume Effects	6th European PEFC & Electrolyser Forum Special Issue Series	6th European PEFC & Electrolyser Forum	Jul. 2017	European PEFC and Electrolyser Forum
35	Majid H Koul		Towards an open source haptic kit to teach basic STEM concepts	Advances in Robotics (AIR2017)	Advances in Robotics (AIR2017)	Jun. 2017	ACM
36	Azher Jameel		Fatigue Crack Growth Analysis of Cracked Specimens by XFEM and EFGM	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Dec-16	IIT Kharagpur
37	Azher Jameel		Estimation of Crack Tip Plastic Zones by XFEM, EFGM and Coupled FE-EFG Techniques	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Dec-16	IIT Kharagpur
38	Ovais Gulzar		Performance of Flat Plate Collector for Al ₂ O ₃ -H ₂ O Nanofluid using Hamilton-Crosser Model	Fluid Mechanics and Fluid Power (FMFP-2016)	Fluid Mechanics and Fluid Power (FMFP-2016)	Dec-16	MNNIT Allahabad

39	Mehnaz Rasool		Static and dynamic stability of stiffened shear panels using finite element method	Engineering Mechanics Institute-2016	Engineering Mechanics Institute-2016	Feb-16	American Society of Civil Engineers
40	Azher Jameel		Applications of XFEM, EFGM and Coupled FE-EFG Techniques in Solving Fracture Mechanics Problems	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Dec-15	IIT Kharagpur
41	Azher Jameel		Study of Mechanical Properties of Bones and Mechanics of Bone Fracture	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Indian Society of Theoretical and Applied Mechanics (ISTAM-2016)	Dec-15	IIT Kharagpur
42	Mehnaz Rasool		Buckling and postbuckling analysis of thin plates under in-plane shear and compression	Advances in Civil and Environmental Engineering (ACEE 2015)	Advances in Civil and Environmental Engineering (ACEE 2015)	Sept. 2015	UniversitiTeknologi MARA
43	Mohd Junaid Mir	Tribology and Sustainability	Solid Lubricant Coatings Effective Lubricating Coatings for Tribological Applications			26-08-2021	CRC Press
44	Shuhaib Mushtaq	Tribology and Sustainability	Self Lubricating Iron based Metal Matrix Composites			26-08-2021	CRC Press
45	Shuhaib Mushtaq		On Wear Behavior of different grades of SG Cast Iron	2nd Virtual International Tribology Research Symposium (ITRS2021)	2nd Virtual International Tribology Research Symposium (ITRS2021)	08-10 Dec. 2021	
46	Mahvash Afzal		Modelling and Simulation of a hydrogen storage reactor with expansion volume effects	6th European PEFC and Electrolyser Forum 2017	6th European PEFC and Electrolyser Forum 2017	4th-7th July 2017	
47	Mahvash Afzal		Heat and Mass Transport In a Metal hydride based Hydrogen Storage Reactor with Hexagonal Heat Transfer Enhancements	Proceedings of the 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference	Proceedings of the 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference	17th - 20th December 2021	IIT Madras/ Indian Society of Heat and Mass Transfer
48	Mohammad Afzal		Point Cloud To CAD Model Using Reverse Engineering Software	National Conference on Recent Advances in Manufacturing, Surat, Indi	National Conference on Recent Advances in Manufacturing, Surat, Indi	2010	SVNIT Surat
49	Mohammad Afzal		Direct and Indirect hard tooling produced by Rapid Prototyping	proceedings of International Conference on Industrial Engineering, Surat, India	proceedings of International Conference on Industrial Engineering, Surat, India	2012	

50	Mohammad Afzal		Mode II Stress Intensity Factor of Rapid Prototyped Arcan Butterfly Specimen	proceedings of International Conference on Advances in materials and product design, Surat, India.	proceedings of International Conference on Advances in materials and product design, Surat, India.	2014	
51	Mohammad Afzal		Stress intensity factors for a plate with slant edge crack built with Rapid Manufacturing Process	3rd International Conference On Innovative Design, Analysis & Development Practices In Aerospace And Automotive	3rd International Conference On Innovative Design, Analysis & Development Practices In Aerospace And Automotive	2018	
52	Mohammad Afzal	Lecture Notes in Mechanical Engineering	Stress intensity factors for a plate with slant edge crack built with Rapid Manufacturing Process			2020	
53	Mohammad Afzal	Materials Today: Proceedings	Effect of specimen parameters on mixed-mode I/II stress intensity factors for additive manufactured slant edge crack plate			2021	
54	Mahendra Kumar soni	Tribology and Sustainability	Composites: Physical, Mechanical and Tribological Properties			2021	CRC Press