



ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

List of Publications in Journals (SCI/SCOPUS only)

S. No	Authors	Title of Paper	Name of Journal / Conference (with ISSN No)	Publication	Volume and Page No.	Month and Year of Publication	Indexing SCI/SCOPUS
1.	AzherJameel, G. A. Harmain	Large deformation in bi-material components by XIGA and coupled FE-IGA techniques	Mechanics of Advanced Materials and Structures	Taylor and Francis	Vol. 00, pp. 1–23	2020	SCI
2.	AzherJameel, G. A. Harmain	Effect of Material Irregularities on Fatigue Crack Growth by Enriched Techniques	International Journal for Computational Methods in Engineering Science and Mechanics	Taylor and Francis	In press	2020	SCI/SCOPUS
3.	A. S. Lone, S. A. Kanth, AzherJameel, G. A. Harmain	XFEM Modelling of frictional contact between elliptical inclusions and solid bodies	Materials Today: Proceedings	Elsevier	In press	2020	SCOPUS
4.	U. A. Sheikh, AzherJameel	Elasto-plastic large deformation analysis of bi-material components by FEM	Materials Today: Proceedings	Elsevier	In press	2020	SCOPUS
5.	S. A. Kanth, A. S. Lone, G. A. Harmain, AzherJameel	Modelling of embedded and edge cracks in steel alloys by XFEM	Materials Today: Proceedings	Elsevier	In press	2020	SCOPUS
6.	S. A. Kanth, A. S. Lone, G. A. Harmain, AzherJameel	Elasto Plastic Crack Growth by XFEM: A Review	Materials Today: Proceedings	Elsevier	Vol. 0, pp. 1–10	2019	SCOPUS
7.	A. S. Lone, S. A. Kanth, AzherJameel, G. A. Harmain	A state of art review on the modeling of Contact type Nonlinearities by Extended Finite Element method	Materials Today: Proceedings	Elsevier	Vol. 0, pp. 1–10	2019	SCOPUS
8.	A. K. Singh, AzherJameel, G. A. Harmain	Investigations on crack tip plastic zones by the extended iso-geometric analysis	Materials Today: Proceedings	Elsevier	Vol. 5, pp. 19284–19293	2018	SCOPUS
9.	S. A. Kanth, G. A.	Modeling of Nonlinear Crack Growth	Materials Today: Proceedings	Elsevier	Vol. 5, pp.	2018	SCOPUS

	Harmain, AzherJameel	in Steel and Aluminum Alloys by the Element Free Galerkin Method			18805–18814		
10.	A. S. Lone, AzherJameel , G. A. Harmain	A Coupled Finite Element-Element Free Galerkin Approach for Modeling Frictional Contact in Engineering Components	Materials Today: Proceedings	Elsevier	Vol. 5, pp. 18745–18754	2018	SCOPUS
11.	AzherJameel , G. A. Harmain	A Coupled FE-IGA Technique for Modeling Fatigue Crack Growth in Engineering Materials	Mechanics of Advanced Materials and Structures	Taylor and Francis	Vol. 00, pp. 1–12	2018	SCI
12.	AzherJameel , G. A. Harmain	Extended Iso-Geometric Analysis for modeling Three Dimensional Cracks	Mechanics of Advanced Materials and Structures	Taylor and Francis	Vol. 00, pp. 1–12	2018	SCI
13.	AzherJameel , G. A. Harmain	Fatigue crack growth analysis of cracked specimens by the coupled finite element-element free Galerkin method	Mechanics of Advanced Materials and Structures	Taylor and Francis	Vol. 00, pp. 1–12	2018	SCI
14.	G. A. Harmain, AzherJameel , F. A. Najar, J. H. Masoodi	Large Elasto-Plastic Deformations in Bi-material Components by Coupled FE-EFGM	IOP Conference Series: Material Science and Engineering		Vol. 225, No. 012295, pp. 1–7	2017	SCOPUS
15.	AzherJameel , G. A. Harmain	Modeling and Numerical Simulation of Fatigue Crack Growth in Cracked Specimens Containing Material Discontinuities	Strength of Materials	Springer	Vol. 48, No. 2, pp. 294–307	2016	SCI
16.	AzherJameel , G. A. Harmain	Fatigue Crack Growth in Presence of Material Discontinuities by EFGM	International Journal of Fatigue	Elsevier	Vol. 81, pp. 105–116	2015	SCI
17.	Rahul Anand, Ankush Raina, Mir Irfan Ul Haq, MJ Mir, Ovais Gulzar , MF Wani	Synergism of TiO ₂ and Graphene as Nano-additives in Bio-Based Cutting Fluid-An Experimental Investigation	Tribology Transactions	Taylor and Francis	Volume 64 Issue 2 Pages 350-366	20-Nov-22	SCI
18.	Ovais Gulzar , Adnan Qayoum, Rajat Gupta	Experimental study on thermal conductivity of mono and hybrid Al ₂ O ₃ -TiO ₂ nanofluids for concentrating solar collectors	Internal Journal of Energy Research	John Wiley	Volume45, Issue3 Pages 4370-4384	20-Oct-22	SCI
19.	Ovais Gulzar , Adnan Qayoum, Rajat Gupta	Experimental study on stability and rheological behaviour of hybrid Al ₂ O ₃ -TiO ₂ Therminol-55 nano fluids	Powder Technology 0032-5910	Elsevier	Volume 352, 436-444	April 2019	SCI

		for concentrating solar collectors					
20.	Ovais Gulzar, Adnan Qayoum, Rajat Gupta	Photo-thermal characteristics of hybrid nanofluids based on Therminol-55 oil for concentrating solar collectors	Applied Nanoscience 2190-5509	Springer	ApplNanosci 9, 1133–1143	March 2018	SCI
21.	M Junaid Mir, MFWani, et al.	<u>Influence of cutting fluid conditions on tool wear and surface roughness in hard turning AISI-D2 Steel using mixed ceramic tools</u>	Journal of Physics: Conference Series ISSN:- 17426588	IOP Science	1240 page no. 012109	7/2019	SCOUPUS
22.	Bisma Parveez, MF Wani, M Junaid Mir	<u>Tribological Characterization of Iron Based Ceramic Reinforced Self-lubricating Material</u>	Journal of Physics: Conference Series ISSN:- 17426588	IOP Science	1240 P 012108	7/2019	SCOUPUS
23.	Md Firdos Ali, Summera Banday,M Junaid Mir,	<u>Tribological Characterization of Cu-Ni Metal Matrix Composites Using MoS2 Nano-lubricant</u>	Journal of Physics: Conference Series ISSN:- 17426588	IOP Science	1240 Pp 012135	7/2019	SCOUPUS
24.	Summera Banday, MF Wani, M Junaid Mir, et al.	<u>Adhesion Property of Self-lubricating Si/MoS2 Nanocoating at Nano-scale Level</u>	Materials Science and Engineering ISSN-1757-899X	IOP Science	561 Pp 012082	10/2019	SCOUPUS
25.	M Junaid Mir, MF Wani,	<u>The influence of cutting fluid conditions and machining parameters on cutting performance and wear mechanism of coated carbide tools</u>	Jurnal Tribologi ISSN-2289-7232	My Tribos	18 Pp 58-80	1/9/2018	SCOUPUS/WOS
26.	M Junaid Mir, MF Wani,	<u>Hard turning of high-carbon high chromium tool steel using CBN tools under different lubricating/cooling conditions</u>	Anadolu Üniversitesi Bilim Ve Teknoloji Dergisi-B Teorik Bilimler ISSN-2146-0272	Eskisehir Technical University	2 P 108-122	1/7/2018	SCOUPUS
27.	Shuhaib Mushtaq, M Junaid Mir et al.	<u>Tribological and mechanical properties of PM Fe-Cu-Sn alloy containing graphite as a solid lubricant</u>	World Review of Science, Technology and Sustainable Development ISSN-1741-2234	Inder science	14 ISSUE 2-3 Pp 119-134	1/3/2018	SCOUPUS
28.	M Junaid Mir, MF Wani,	<u>Modelling and analysis of tool wear and surface roughness in hard turning of AISI D2 steel using response surface methodology</u>	International Journal of Industrial Engineering Computations ISSN-1923-2934	Growing Science	9 pp 63-74	2018	SCOUPUS/WOS
29.	M Junaid Mir, MF Wani,	<u>Performance evaluation of PCBN, coated carbide and mixed ceramic inserts in finish-turning of AISI D2 steel</u>	Jurnal Tribologi ISSN-2289-7232	My Tribos	14 pp 10-31	2017	SCOUPUS/WOS
30.	M. Rasool and M.	Aeroelastic Analysis of Pre-stressed	Journal of Vibration and Control	SAGE	26(9-10), 724-	2020	SCI

	K. Singha	Variable Stiffness Composite Panels	(2.865)	Publications Inc.	734		
31.	M. Rasool and M. K. Singha	Stability of variable stiffness composite laminates under compressive and shearing follower forces	Composite Structures(4.829)	Elsevier	225/111003	2019	SCI
32.	M. Rasool and M. K. Singha	Stability behavior of variable stiffness composite panels under periodic in-plane shear and compression	Composite Part B: Engineering (6.864)	Elsevier	172/472-484	2019	SCI
33.	M. K. Singha, E. Kumari, M. Rasool and A. Kumar	Nonlinear elastic stability of web panels in built-up sections	International Journal of Structural Stability and Dynamics(2.156)	World Scientific Publishing Co.	19(06)/1950064	2019	SCI
34.	M. Rasool and M. K. Singha	A finite element study on the nonlinear behaviour of rectangular shear panels	Thin Walled Structures (3.488)	Elsevier	104/248-258	2016	SCI
35.	M. K. Singha, E. Kumari, M. Rasool, A. Kumar and P. Chakraborty	Large amplitude Vibration Behavior of Cantilever Pre-twisted Variable Stiffness Composite Panels	Composite Structures (4.829)	Elsevier	Minor Revision Submitted		SCI
36.	M.Nadeem, ShuhaibMushtaq	Effect of section thickness on cooling curve morphology, microstructure and mechanical properties of spheroidal graphite iron	Journal of Iron & steel research international/ Springer (2210-3988) I.F 1.382	Springer	Accepted Manuscript		SCI
37.	ShuhaibMushtaq, M.F Wani	A study on friction and wear characteristics of Fe-Cu-Sn alloy with MoS2 as solid lubricant under dry conditions	Sadhana Springer (0937-7677) I.F 0.769	Springer	44:240	22 Nov. 2019	SCI
38.	KaleemNajar, ShuhaibMushtaq	Engineered Synthetic Diamond Film as a Protective Layer for Tribological and Machining Applications: A Review	Journal of Bio- Tribo-corrosion, Springer (2198-4239)	Springer	5:59	20 May 2019	Scopus
39.	ShuhaibMushtaq, M.F Wani	Tribological and mechanical properties of PM Fe-Cu-Sn alloy containing graphite as a solid lubricant	WRSTSD/Inderscience (1741-2234)	Inderscience	14:2/3, 119-134	12 June 2018	Scopus
40.	S.S. Saleem , ShuhaibMushtaq	Experimental investigation and modelling of PMEDM process with aluminium powder suspended dielectric on AISI-H11	Discovery Engineering (2320-6675)	Discovery Scientific Society	06 (2018) 6-18	17 April 2018	Scopus

41.	ShuhaibMushtaq, M.F Wani	High-temperature friction and wear studies of Fe-Cu-Sn alloy with graphite as solid lubricant under dry sliding conditions	Material Rresearch Express/ IOP Science (2053-1591) I.F 1.449	IOP Science	5(2018):026504	22 Feb 2018	SCI
42.	ShuhaibMushtaq, M.F Wani	Tribological characterization of Fe-Cu-Sn alloy with graphite as solid lubricant	Industrial lubrication & Tribology/ Emerald Insight (0036-8792) I.F 0.49	Emerald Insight	70/2 : 393-400	03 January 2018	SCI
43.	ShuhaibMushtaq, M.F Wani	Self-lubricating tribological characterization of lead free Fe-Cu based plain bearing material	JjurnalTribologi (2289-7232)	Malaysian Tribology Society	12 (2017) :18-37	21 February 2017	Scopus
44.	Mahvash Afzal, Rohit Mane and Pratibha Sharma	Heat Transfer Techniques in Metal Hydride Hydrogen Storage: A Review	International Journal of Hydrogen Energy	Elsevier	Volume 42 Issue 52 Pages 36061-36082	28-12-2017	Scopus
45.	Mahvash Afzal and Pratibha Sharma	Design of a Large- Scale Metal Hydride Based Hydrogen Storage Reactor: Simulation and Heat Transfer Optimization	International Journal of Hydrogen Energy	Elsevier	Volume 43 Issue 29 Pages 13356-13372	19-07-2018	Scopus
46.	Mahvash Afzal and Pratibha Sharma	Design and Computational Analysis of a Metal Hydride Hydrogen Storage Sytem with Hexagonal Honeycomb Based Heat Transfer Enhancements- Part A	International Journal of Hydrogen Energy	Elsevier	Volume 46 Issue 24 Pages 13116-13130	06-04-2021	Scopus
47.	Mahvash Afzal, Nandlal Gupta, Aashish Mallik, K.S. Vishnulal and Pratibha Sharma	Experimental Analysis of a Metal Hydride Hydrogen Storage Sytem with Hexagonal Honeycomb Based Heat Transfer Enhancements- Part B	International Journal of Hydrogen Energy	Elsevier	Volume 46 Issue 24 Pages 13131-13141	06-04-2021	Scopus
48.	M Afzal Bhat, A A Shaikh	Simulation of Photopolymer CT Specimen for Stress Intensity Factors”	International Journal of Emerging Technology and Advanced Engineering,		4(10),	2014	--
49.	M Afzal Bhat, A A Shaikh	FEA simulation and geometric calibration of Arcan fixture for buttery specimen of RP material for buttery specimen of RP material	International Journal of Engineering and Technical Research		2(10),	2014	--
50.	Suhail Ganiny, Majid Koul,	Time-delayed dual-rate haptic rendering: stability analysis	International Journal of Intelligent Robotics and	Springer		September 2021.	

	Babar Ahmad	and reduced order modeling,	Applications				
51.	Majid Koul, M Manivannan, Subir K Saha	Effect of Dual-rate Sampling on the Stability of a Haptic, , ,	Journal of Intelligent and Robotic Systems Interface	Springer		September 2017	
52.	Majid Koul, Suril V Shah, Subir K Saha, M Manivannan,	Reduced-order forward dynamics of multiclosed- loop systems, ,.	Multibody System Dynamics		Volume 30, Issue 1	June 2013	