

Mushtaq Khan

Professor

School of Mechanical & Manufacturing Engineering

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About

Dr. Mushtaq Khan is working as Professor in the School of Mechanical & Manufacturing Engineering. Dr. Mushtaq Khan has a PhD in Additive Manufacturing (3d Printing). Dr. Mushtaq Khan has published 78 research articles & conference papers having a citation count of 1998, carried out 7 projects and filed 0 intellectual property.

Qualifications

PhD in Additive Manufacturing (3d Printing) Loughborough University , Pakistan	2006 - 2010
MSc in Manufacturing Engineering NUST, Islamabad , Pakistan	2004 - 2006
BE in Mechanical Engineering UET Taxila , Pakistan	2001 - 2004

Experience

Professor School of Mechanical & Manufacturing Engineering	2021- Present
Professor School of Mechanical & Manufacturing Engineering	2021 - 2021
Associate Professor School of Mechanical & Manufacturing Engineering	2016 - 2021
Assistant Professor School of Mechanical & Manufacturing Engineering	2013 - 2016
Assistant Professor School of Mechanical & Manufacturing Engineering	2010 - 2013
Assistant Professor College of Electrical & Mechanical Engineering	2010 - 2010
Research Fellow (Post Doc) University of Manchester , Manchester UK	2012 - 2013

Awards

Rector NUST Gold Medal Rector NUST Gold Medal during MS studies	2007
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Professional Memberships

PEC	Since 2004
IMECHE UK	Since 2014

Research Projects

National Projects

Design, Development and Process Simulation of a low cost electro magnetic forming (pluse forming) machine for sheet metal forming industry	2020
Funding Agency: NUST	
Amount: PKR 300,000.00	
Status: Approved_inprocess	
To Determine the Effect of Thermal Shock on a Fixed Glass Dome	2019
Funding Agency: NESCOM	
Amount: PKR 100,000.00	
Status: Completed	
Design, development and process simulation of a Low-Cost Electro-magnetic forming (pulse forming) machine for sheet metal forming industry	2020
Funding Agency: NUST	
Amount: PKR 300,000.00	
Status: Approved_inprocess	
Effect of Thermal Shock on Fixed Glass Dome	2019
Funding Agency: NESCOM	
Amount: PKR 100,000.00	
Status: Approved_inprocess	
Piezoelectric Materials synthesis and Development	2015
Funding Agency: NESCOM	
Amount: PKR 200,000.00	
Status: Completed	
Modeling of Biomechanical Movement for Active Prosthetic Manufacturing and Assembly	2015
Funding Agency: NESCOM	
Amount: PKR 200,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Design and Development of Hybrid Wind Tunnel Model	2017
Client: NESCOM	
Amount: PKR 300,000.00	
Status: Completed	

International Projects

Research Articles

A Pareto-optimality based black widow spider algorithm for energy efficient flexible job shop scheduling problem considering new job insertion	2024
Kashif Akram Muhammad Usman Bhutta Shahid Ikramullah Butt Syed Husain Imran Jaffery Mushtaq Khan Alam Zeb Khan Zahid Faraz	
Applied Soft Computing , Volume 164, Article Number 111937	
Impact Factor: 7.200 Quartile: 1 Citations: 10	
DOI: https://doi.org/10.1016/j.asoc.2024.111937	
Processing of silicon added Fe-Cr-Co hard magnetic alloy by two stage thermomagnetic treatment technique	2023
Ali Haider Aamir Nusair Khan Mushtaq Khan Syed Husain Imran Jaffery	
Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Volume 237, Issue 13, Pages 2150-2159	
Impact Factor: 2.6 Quartile: 2 Citations: 4	
DOI: 10.1177/09544054221136391	
Toward clean manufacturing: an analysis and validation of a modified Johnson–Cook material model for low and high-speed orthogonal machining of low-carbon aluminum alloy (Al 6061-T6)	2023
Sohail Akram Syed Husain Imran Jaffery Zahid Anwar Mushtaq Khan Muhammad Ali Khan	

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1007/s00170-023-12367-0

Machinability analysis of Ti-6Al-4V under cryogenic condition

2023

Muhammad Ali Khan Syed Hussain Imran Jaffery Mushtaq Khan Mansoor Alruqi

Journal of Materials Research and Technology, Volume 25

Impact Factor: 6.267 | **Quartile:** 1 | **Citations:** 21

DOI: <https://doi.org/10.1016/j.jmrt.2023.06.022>

Assessment of sustainability of machining Ti-6Al-4V under cryogenic condition using energy map approach

2023

Muhammad Ali Khan Syed Hussain Imran Jaffery Mushtaq Khan

Engineering Science and Technology, an International Journal, Volume 41, Article Number 101357

Impact Factor: 5.155 | **Quartile:** 1 | **Citations:** 17

DOI: <https://doi.org/10.1016/j.jestch.2023.101357>

Statistical Analysis of Machining Parameters on Burr Formation, Surface Roughness and Energy Consumption during Milling of Aluminium Alloy Al 6061-T6

2022

Najam ul Qadir Sajid Raza Zaidi Syed Hussain Imran Jaffery Muhammad Ali Khan Mushtaq Khan Jana Petru

Materials, Volume 15(22), Article Number 8065

Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 15

DOI: 10.3390/ma15228065

Comparative analysis of tool wear progression of dry and cryogenic turning of titanium alloy Ti-6Al-4V under low, moderate and high tool wear conditions

2022

Muhammad Ali Khan Syed Hussain Imran Jaffery Aamer Ahmed Baqai Mushtaq Khan

International Journal of Advanced Manufacturing Technology, Volume:121, Issue:1-2, Page:1269-1287

Impact Factor: 3.226 | **Quartile:** 2 | **Citations:** 20

DOI: <https://doi.org/10.1007/s00170-022-09196-y>

Development and analysis of tool wear and energy consumption maps for turning of titanium alloy (Ti6Al4V)

2021

Muhammad Younas Syed Husain Imran Jaffery Ashfaq Khan Mushtaq Khan

Journal of Manufacturing Processes, Volume 62, Pages 613-622

Impact Factor: 5.684 | **Quartile:** 2 | **Citations:** 58

DOI: 10.1016/j.jmapro.2020.12.060

Effect of Peritectic Banded Structure on Magnetic Properties of SmCo5 Sintered Magnets

2020

Saleem Akhtar Aamer Nusair Khan Mushtaq Khan Syed Husain Imran Jaffery Arslam Saleem

Journal of Magnetism, Volume 25(04), Pages 469-474

Impact Factor: 0.514 | **Quartile:** 4

DOI: 10.4283/JMAG.2020.25.4.469

A layered genetic algorithm with iterative diversification for optimization of flexible job shop scheduling problems

2020

Muhammad Kamal Amjad Muhammad Kamal Amjad Muhammad Kamal Amjad Naveed Anjum Imran A Chaudhary Faping Zhang Mushtaq Khan Shahid Ikramullah Butt

Advances in Production Engineering and Management, Volume 15, No. 04, Pages 377-389

Impact Factor: 3.382 | **Quartile:** 2 | **Citations:** 21

DOI: <https://doi.org/10.14743/apem2020.4.372>

Fretting fatigue crack initiation and propagation in Ti6Al4V sheets under tribocorrosive conditions of artificial seawater and physiological solutions

2020

Zeeshan Anjum Masood Shah Hassan Elahi Mushtaq Khan Muhammad Mujahid Shahab Khushnood Faisal Qayyum

Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Volume 234, Issue 12, Pages 1526-1534

Impact Factor: 2.311 | **Quartile:** 3 | **Citations:** 9

DOI: 10.1177/1464420720946431

Fretting fatigue crack initiation and propagation in Ti6Al4V sheets under tribocorrosive conditions of artificial seawater and physiological solutions

2020

Zeeshan Anjum Masood Shah Hassan Elahi Mushtaq Khan Muhammad Mujahid Shahab Khushnood Faisal Qayyum

Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Volume 234, Issue 12, Pages 1526-1534

Impact Factor: 2.311 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.1177/1464420720946431>

Numerical and experimental investigation of the effect of process parameters on sheet deformation during the electromagnetic forming of AA6061-T6 alloy <i>Mushtaq Khan Syed Hussain Imran Jaffery Zarak Khan Muhammad Younas Kamran S. Afaq Muhammad Ali Khan</i> <i>Mechanical Sciences</i> , Volume 11, Pages 329–347 Impact Factor: 1.086 Quartile: 4 Citations: 9 DOI: https://doi.org/10.5194/ms-11-329-2020	2020
Effect of Microstructure on the Coercivity of SmCo5 Intermetallic Compound <i>Saleem Akhtar Mushtaq Khan Aamer Nusair Khan Syed Husain Imran Jaffery</i> <i>Materials Transactions</i> , Volume 61(11), Pages 2195-2200 Impact Factor: 1.389 Quartile: 3 Citations: 2 DOI: https://doi.org/10.2320/matertrans.MT-M2019350	2020
Effect of Solidification Process on the Magnetic Properties of Samarium Cobalt Intermetallic Compounds <i>Saleem Akhtar A. Nusair Khan Mushtaq Khan Syed Husain Imran Jaffery</i> <i>Materials Transactions</i> , Volume 61, Issue 5, Pages 1008-1013 Impact Factor: 1.389 Quartile: 3 Citations: 1 DOI: https://doi.org/10.2320/matertrans.MT-M2019269	2020
Performance comparison of a two-bed solar-driven adsorption chiller with optimal fixed and adaptive cycle times using a silica gel/water working pair <i>Najam ul Qadir S.A.M. Said R.B. Mansour Syed Hussain Imran Jaffery Mushtaq Khan</i> <i>Renewable Energy</i> , Volume 149, Pages 1000-1017 Impact Factor: 8.001 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.renene.2019.10.095	2020
Development and Testing of a Wearable Vibrotactile Haptic Feedback System for Proprioceptive Rehabilitation <i>Sara Baber Sial Rumshaa Yunus Yasar Ayaz Mushtaq Khan Shamsa Kanwal Uzma Akhlaque Raheel Nawaz</i> <i>IEEE Access</i> , Volume 8, Pages 35172-35184 Impact Factor: 3.367 Quartile: 2 Citations: 20 DOI: 10.1109/ACCESS.2020.2975149	2020
Multi-objective optimization of turning titanium-based alloy Ti-6Al-4V under dry, wet, and cryogenic conditions using gray relational analysis (GRA) <i>Syed Husain Imran Jaffery Muhammad Younas Shahid I Butt Riaz Ahmad Muhammad Ali Khan Mushtaq Khan Salman Sagheer Warsi</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Volume 106, Issue 7-8, Pages 3897-3911 Impact Factor: 3.226 Quartile: 2 Citations: 77 DOI: 10.1007/s00170-019-04913-6	2020
Development of specific cutting energy map for sustainable turning: a study of Al 6061 T6 from conventional to high cutting speeds <i>Riaz Ahmad Syed Husain Imran Jaffery Mujtaba Hassan Agha Salman Sagheer Warsi Mushtaq Khan</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Volume 106, Issue 7-8, Pages 2949-2960 Impact Factor: 3.226 Quartile: 2 Citations: 16 DOI: 10.1007/s00170-019-04836-2	2020
Statistical analysis of energy consumption, tool wear and surface roughness in machining of Titanium alloy (Ti-6Al-4V) under dry, wet and cryogenic conditions <i>Muhammad Ali Khan Syed Husain Imran Jaffery Mushtaq Khan Muhammad Younas Shahid Ikramullah Butt Riaz Ahmad Salman Sagheer Warsi</i> <i>Mechanical Sciences</i> , Volume 10, Pages 561-573 Impact Factor: 1.015 Quartile: 4 Citations: 46 DOI: 10.5194/ms-10-561-2019	2019
Multi-objective optimization for sustainable turning Ti6Al4V alloy using grey relational analysis (GRA) based on analytic hierarchy process (AHP) <i>Muhammad Younas Syed Husain Imran Jaffery Mushtaq Khan Muhammad Ali Khan Riaz Ahmad Aamir Mubashar Liaqat Ali</i> <i>International Journal of Advanced Manufacturing Technology</i> , Volume 105, Issue 1-4, Pages 1175-1188 Impact Factor: 2.633 Quartile: 2 Citations: 84 DOI: https://doi.org/10.1007/s00170-019-04299-5	2019
Quaternary alloying of copper with Ti50Ni25Pd25 high temperature shape memory alloys <i>Saif-ur-Rehman Mushtaq Khan A. Nusair Khan Liaqat Ali Syed Hussain Imran Jaffery Muhammad Khurram</i> <i>Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing</i> , Volume: 763, Article Number: 138148	2019

Impact Factor: 4.652 Quartile: 1 Citations: 11 DOI: DOI:10.1016/j.msea.2019.138148	
Tool Wear Progression and its Effect on Energy Consumption in Turning of Titanium Alloy (Ti-6Al-4V) <i>Muhammad Younas Syed Husain Imran Jaffery Mushtaq Khan Riaz Ahmad Liaqat Ali Zarak Khan Aftab Khan</i> <i>Mechanical Sciences</i> , Volume 10, Issue 2, Pages 373-382 Impact Factor: 1.015 Quartile: 4 Citations: 30 DOI: 10.5194/ms-10-373-2019	2019
Enhanced Performance for Multi-Forearm Movement Decoding Using Hybrid IMU–sEMG Interface <i>Waseem Shahzad Noman Naseer Mushtaq Khan Muhammad Jawad Khan Yasar Ayaz</i> <i>Frontiers in Neurorobotics</i> , Volume 13, Article Number 43 Impact Factor: 2.574 Quartile: 2 Citations: 35 DOI: 10.3389/fnbot.2019.00043	2019
Multi-Forearm Movement Detection Using Sensor Fusion Techniques for Rehabilitation <i>Waseem Shahzad Yasar Ayaz Muhammad Jawad Khan Noman Naseer Mushtaq Khan</i> <i>Frontiers in Neurorobotics</i> , Volume 13, Article Number 43 Impact Factor: 2.574 Quartile: 2 Citations: 34 DOI: https://doi.org/10.3389/fnbot.2019.00043	2019
Influence of Cu addition on transformation temperatures and thermal stability of TiNiPd high temperature shape memory alloys <i>Mushtaq Khan Syed Husain Imran Jaffery Saif ur Rehman A Nusair Khan Khurshid Alam Liaqat Ali Ashfaq Khan</i> <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials Design and Applications</i> , Volume 233, Issue 5, Pages 800-808 Impact Factor: 2.014 Quartile: 3 Citations: 4 DOI: 10.1177/1464420717702679	2019
Parametric analysis of wax printing technique for fabricating microfluidic paper-based analytic devices (μPAD) for milk adulteration analysis <i>Muhammad Younas Ammara Maryam Mushtaq Khan Ahmad Ahsan Nawaz Syed Husain Imran Jaffery Muhammad Nabeel Anwar Liaqat Ali</i> <i>Microfluidics and Nanofluidics</i> , Volume 23, Issue 3, Article Number 38 Impact Factor: 2.489 Quartile: 2 Citations: 47 DOI: 10.1007/s10404-019-2208-z	2019
Sustainable turning using multi-objective optimization: a study of Al6061 T6 at high cutting speeds <i>Salman Sagheer Warsi Mujtaba Hassan Agha Riaz Ahmad Syed Husain Imran Jaffery Mushtaq Khan</i> <i>International Journal of Advanced Manufacturing Technology</i> , Volume 100, Issue 1–4, Pages 843–855 Impact Factor: 2.633 Quartile: 2 Citations: 51 DOI: 10.1007/s00170-018-2759-2	2019
Development of energy consumption map for orthogonal machining of Al 6061-T6 alloy <i>Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtaq Khan Mujtaba Hassan Agha Sohail Akram Liaqat Ali</i> <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , Volume 232, Issue 14, Pages 2510-2522 Impact Factor: 1.752 Quartile: 3 Citations: 45 DOI: 10.1177/0954405417703424	2018
Numerical and experimental investigation of Johnson-Cook material models for aluminum (Al 6061-T6) alloy using orthogonal machining approach <i>Sohail Akram Liaqat Ali Syed Hussain Imran Jaffery Mushtaq Khan Muhammad Fahad Aamir Mubashar</i> <i>Advances in Mechanical Engineering</i> , Volume 10(9), Pages 1–14 Impact Factor: 1.024 Quartile: 4 Citations: 115 DOI: 10.1177/1687814018797794	2018
Analysis of Burr Formation in Low Speed Micro-milling of Titanium Alloy (Ti-6Al-4V) <i>Gulfam-ul-Rehman Syed Husain Imran Jaffery Mushtaq Khan Liaqat Ali Ashfaq Khan Shahid Ikramullah Butt</i> <i>Mechanical Sciences</i> , Volume: 9, Issue: 2, Pages: 231-243 Impact Factor: 1.052 Quartile: 4 Citations: 22 DOI: 10.5194/ms-9-231-2018	2018
Development of a STEP-compliant design and manufacturing framework for discrete sheet metal bend parts <i>Syed Husain Imran Jaffery Zahid Faraz Syed Waheed ul Haq Liaqat Ali Wasim Akram Tarar Amer Ahmed Baqai Mushtaq Khan Rizwan Saeed Choudhry</i> <i>Khalid Mahmood</i> <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , Volume 232, Issue 6, Pages 1090-1104	2018

Impact Factor: 1.752 Quartile: 3 Citations: 5 DOI: 10.1177/0954405416661007	
Development and analysis of energy consumption map for high-speed machining of Al 6061-T6 alloy <i>Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtaq Khan Mujtaba Hassan Agha Liaqat Ali</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Volume 96, Issue 1-4, Pages 91-102 Impact Factor: 2.496 Quartile: 2 Citations: 39 DOI: 10.1007/s00170-018-1588-7	2018
Topology optimisation of adhesive joints using non-parametric methods <i>H. Ejaz A. Mubashar I. A. Ashcroft Mushtaq Khan Emad Uddin</i> <i>International Journal Of Adhesion And Adhesives</i> , NULL Impact Factor: 2.501 Quartile: 2 Citations: 30 DOI: https://doi.org/10.1016/j.ijadhadh.2017.11.003	2018
Evaluation of eddy current signatures for predicting different heat treatment effects in chromium? vanadium (CrV) spring steel <i>Javeria Hashmi Mushtaq Khan Syed Husain Imran Jaffery Mahmood Khan Liaqat Ali Muhammad Nabeel Anwar Tayyab Subhani</i> <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , Volume 231(3), Pages 259–271 Impact Factor: 1.281 Quartile: 3 Citations: 3 DOI: 10.1177/1464420715595432	2017
Lossless image compression: application of Bi-level Burrows Wheeler Compression Algorithm (BBWCA) to 2-D data <i>Aftab Khan Ashfaq Khan Mushtaq Khan Muhammad Uzair</i> <i>Multimedia Tools and Applications</i> , Volume: 76, Issue: 10, Pages 12391-12416 Impact Factor: 1.541 Quartile: 2 Citations: 18 DOI: doi:10.1007/s11042-016-3629-2	2017
Sheet-metal bend sequence planning subjected to process and material variations <i>Zahid Faraz Syed Waheed ul Haq Liaqat Ali Khalid Mahmood Wasim Akram Tarar Aamer Ahmed Baqai Mushtaq Khan Syed Husain Imran</i> <i>The International Journal of Advanced Manufacturing Technology</i> , NULL Impact Factor: 2.601 Quartile: 2 Citations: 11 DOI: 10.1007/s00170-016-8823-x	2017
Analysis of weld characteristics of micro-plasma arc welding and tungsten inert gas welding of thin stainless steel (304L) sheet <i>Syed Husain Imran Jaffery Sadaf Batool Mushtaq Khan Ashfaq Khan Aamir Mubashar Liaqat Ali Nawar Khan Muhammad Nabeel Anwar</i> <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , Volume 230, Issue 6, Pages, 1005-1017 Impact Factor: 1.625 Quartile: 3 Citations: 27 DOI: 10.1177/1464420715592438	2016
Hybridization of simulated annealing with genetic algorithm for cell formation problem <i>Mushtaq Khan Nawar Khan Adnan Tariq Liaqat Ali Farooque Azam Syed Husain Imran Jaffery Alam Zeb</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Volume 86, Issue 5–8, Pages 2243–2254 Impact Factor: 2.209 Quartile: 2 Citations: 25 DOI: 10.1007/s00170-015-8288-3	2016
Practical implementation of the on-board solar photovoltaic for the passenger transportation <i>Sulaiman Khan Syed Husain Imran Mushtaq Khan Numan Khan</i> <i>International Journal of Smart Grid and Clean Energy</i> , Vol.5, No.3, Pages 168-173 Impact Factor: 0 DOI: 10.12720/sgce.5.3.168-173	2016
Statistical analysis of process parameters in micromachining of Ti-6Al-4V alloy <i>Syed Husain Imran Jaffery Mushtaq Khan Liaqat Ali Paul T Mativenga</i> <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , Volume 230, Issue 6. Pages 1017-1034 Impact Factor: 1.366 Quartile: 3 Citations: 66 DOI: 10.1177/0954405414564409	2016
In-vitro analysis of forces in conventional and ultrasonically assisted drilling of bone <i>K Alam Edris Hassan Syed Hussain Imran Jaffery Mushtaq Khan</i> <i>Bio-Medical Materials and Engineering</i> , Volume 27, Issue 1, Pages 101-110 Impact Factor: 0.700 Quartile: 4 Citations: 11 DOI: 10.3233/BME-161569	2016

Optimization of process parameters for plasma arc welding of austenitic stainless steel (304L) with low carbon steel (A-36) <i>Shane Fatima Mushtaq Khan Syed Husain Imran Jaffery Liaqat Ali Mohammad Mujahid Shahid I Butt</i> <i>PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS</i> , Volume 230, Issue 2, Pages 640-653 Impact Factor: 1.625 Quartile: 3 Citations: 24 DOI: 10.1177/1464420715584392	2016
Two-Step Martensitic Transformation in an Aged Ti50Ni15Pd25Cu10 High Temperature Shape Memory Alloys <i>Saif-ur-Rehman Mushtaq Khan A. Nusair Khan Liaqat Ali Syed Hussain Imran Jaffery</i> <i>ACTA Physica Polonica A</i> , Volume 128, Issue 2B, Pages B125-B127 Impact Factor: 0.469 Quartile: 4 Citations: 4 DOI: DOI:10.12693/APhysPolA.128.B-125	2016
Effect of lubricant chemistry on the performance of end pivoted roller follower valve train <i>Muhammad Khurram Riaz Ahmad Mufti Rehan Zahid Hafiz Malik Naqash Afzal Muhammad Usman Bhutta Mushtaq Khan</i> <i>Tribology International</i> , Volume: 93, Special Issue:SI, Pages:717-722, Part:B Impact Factor: 2.903 Quartile: 1 DOI: 10.1016/j.triboint.2014.10.021	2016
Use of wear map approach in optimization of drilling parameters for petroleum exploration <i>Syed Husain Imran Jaffery Shahid Sadiq Mushtaq Khan Liaqat Ali Muhammad Nabeel Anwar Aamir Mubashar</i> <i>International Journal of Mechanical and Production Engineering</i> , Volume 3, Issue 6, Pages 63-65 Impact Factor: 0 DOI: 00-00	2015
Effect of Cu addition on microstructure and transformation temperatures of Ti25Ni25Pd25 high temperature shape memory alloys <i>Saifur Rehman Mushtaq Khan Liaqat Ali Syed Husain Imran Jaffery Aamir Mubashar</i> <i>International Journal of Mechanical and Production Engineering</i> , Volume 3, Issue 6, Pages 96-100 Impact Factor: - DOI: -	2015
A possible correlation between performance IQ, visuomotor adaptation ability and mu suppression <i>Muhammad Nabeel Anwar Muhammad Samran Navid Mushtaq Khan Keiichi Kitajo</i> <i>Brain Research</i> , Volume:1603, Page:84-93 Impact Factor: 2.561 Quartile: 3 Citations: 12 DOI: 10.1016/j.brainres.2015.01.045	2015
Effect of Aging on Phase Transition Behavior of Ti50Ni15Pd25Cu10 High Temperature Shape Memory Alloys <i>Saif-ur-Rehman Mushtaq Khan Liaqat Ali Syed Husain Imran Jaffery</i> <i>Advanced Materials Research</i> , Volume 1101, Pages 177-180 Impact Factor: - DOI: doi:10.4028/www.scientific.net/AMR.1101.177	2015
Improvement in the Mechanical Properties of High Temperature Shape Memory Alloy (Ti50Ni25Pd25) by Copper Addition <i>Saif-ur-Rehman Mushtaq Khan A. Nusair Khan Syed Husain Imran Jaffery Liaqat Ali Aamir Mubashar</i> <i>Advances in Materials Science and Engineering</i> , Volume 2015, Article ID 434923, 7 pages Impact Factor: 1.01 Quartile: 3 DOI: -	2015
A Numerical Investigation of Effects of Cutting Velocity and Feed Rate on Residual Stresses in Aluminum Alloy Al-6061 <i>Sohail Akram Syed Husain Imran Jaffery Mushtaq Khan Aamir Mubashar Liaqat Ali</i> <i>International Journal of Materials, Mechanics and Manufacturing</i> , Volume 3, No. 1, Pages 26-30 Impact Factor: - DOI: DOI:10.7763/IJMMM.2015.V3.160	2015
In-vitro experimental analysis and numerical study of temperature in bone drilling <i>Khurshid Alam Mushtaq Khan Riaz Muhammad Sayyad Zahid Qamar Vadim V. Silberschmidt</i> <i>Technology and Health Care</i> , Volume 23, Issue 6, Pages 775-783 Impact Factor: 0.678 Quartile: 4 Citations: 16	2015

DOI: DOI:10.3233/THC-151035	
Effect of precipitation hardening and thermo-mechanical training on microstructure and shape memory properties of Ti50Ni15Pd25Cu10 High Temperature Shape Memory Alloys <i>Saif Ur Rehman Mushtaq Khan Aamer Nusair Khan M. Imran Khan Liaqat Ali Syed Husain Imran Jaffery</i> <i>Journal of Alloys and Compounds</i> , Volume 616, Pages 275-283 Impact Factor: 2.999 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.jallcom.2014.07.116	2014
Transformation behavior and shape memory properties of Ti50Ni15Pd25Cu10 high temperature shape memory alloy at various aging temperatures <i>Saif Ur Rahman Mushtaq Khan Amer Nusair Khan Liaqat Ali Sabah Zaman Muhammad Waseem Syed Husain Imran Jaffery Liaqat Ali</i> <i>Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing</i> , Volume 619, Pages 171-179 Impact Factor: 2.567 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.msea.2014.09.081	2014
The potential of solar powered transportation and the case for solar powered railway in Pakistan <i>Syed Husain Imran Jaffery Mushtaq khan Liaqat Ali Hassan Abbas Khan Riaz Ahmad Mufti Ashfaq Khan Nawar Khan Syed M. Jaffery</i> <i>Renewable and Sustainable Energy Reviews</i> , Volume 39, Pages 270-276 Impact Factor: 5.901 Quartile: 1 Citations: 58 DOI: https://doi.org/10.1016/j.rser.2014.07.025	2014
Selective Laser Melting (SLM) of Pure Gold for Manufacturing Dental Crowns <i>Mushtaq khan Professor Phill Dickens</i> <i>Rapid Prototyping Journal</i> , Volume 20, Issue 6, Pages 471-479 Impact Factor: 2.031 Quartile: 1 Citations: 23 DOI: https://doi.org/10.1108/RPJ-03-2013-0034	2014
Numerical Simulation of Meltpool Instability in the Selective Laser Melting (SLM) Process <i>Mushtaq Khan Nadeem Sheikh Syed Husain Imran Jaffery Liaqat Ali Khurshid Alam</i> <i>Lasers in Engineering</i> , Volume 28(5-6), Pages 319–336 Impact Factor: 0.159 Quartile: 4 DOI: -	2014
Parametric study of development of Inconel-steel functionally graded materials by laser direct metal deposition <i>Kamran Shah Izhar Ul Haq Ashfaq Khan Shaukat Ali Shah Mushtaq khan Andrew J Pinkerton</i> <i>Materials & Design</i> , Volume 54, Pages 531-538 Impact Factor: 3.501 Quartile: 1 Citations: 229 DOI: https://doi.org/10.1016/j.matdes.2013.08.079	2014
3D Finite-Element Modelling of Drilling Cortical Bone: Temperature Analysis <i>Khurshid Alam Mushtaq khan Vadim V. Silberschmidt</i> <i>Journal of Medical and Biological Engineering</i> , Volume 34 (6), Pages 618-623 Impact Factor: 0.971 Quartile: 4 Citations: 48 DOI: https://doi.org/10.5405/jmbe.1585	2014
Wear mechanism analysis in milling of Ti-6Al-4V alloy <i>Syed Hussain Imran Jaffery Mushtaq Khan Nadeem A. Sheikh Paul Mativenga</i> <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , Volume 227, Issue 8, Pages 1148-1156 Impact Factor: 0.661 Quartile: 3 Citations: 39 DOI: https://doi.org/10.1177/0954405413481210	2013
RRT*-SMART: A Rapid Convergence Implementation of RRT* <i>Jauwairia Nasir Fahad Islam Yasar Ayaz Mushtaq Khan Mannan Saeed Muhammad Usman Malik Osman Hasan</i> <i>International Journal of Advanced Robotic Systems</i> , Volume: 10 Article Number: 299 Impact Factor: 0.497 Quartile: 4 Citations: 220 DOI: https://doi.org/10.5772/56718	2013
Analysis of forces in conventional and ultrasonically assisted plane cutting of cortical bone <i>Khurshid Alam Mushtaq Khan Vadim V Silberschmidt</i> <i>Proceedings of the Institution of Mechanical Engineers. Part H: Journal of Engineering in Medicine</i> , Volume 227(6), Pages 636-642 Impact Factor: 1.144 Quartile: 3 Citations: 38 DOI: https://doi.org/10.1177/0954411913485042	2013
Turbine Blade Manufacturing Through Rapid Tooling (RT) Process and Its Quality Inspection	2013

Aamir Iftikhar Mushtaq Khan Khurshid Alam Syed Husain Imran Jaffery Liaqat Ali Yasar Ayaz Ashfaq Khan
Materials and Manufacturing Processes , Volume 28, Issue 5, Pages 534-538

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Editorial Activities

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