Mushtaq Khan

Professor

School of Mechanical & Manufacturing Engineering

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LinkedIn:



Since 2014

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

IMECHE UK

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
Professional Memberships	
PEC	Since 2004

Research Projects

National Projects	
Design, Development and Process Simulation of a low cost electro magnetic forming (pluse forming) machine for sheet metal forming industry Funding Agency: NUST Amount: PKR 300,000.00 Status: Approved_inprocess	2020
To Determine the Effect of Thermal Shock on a Fixed Glass Dome Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Completed	2019
Design, development and process simulation of a Low-Cost Electro-magnetic forming (pulse forming) machine for sheet metal forming industry Funding Agency: NUST Amount: PKR 300,000.00 Status: Approved_inprocess	2020
Effect of Thermal Shock on Fixed Glass Dome Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Approved_inprocess	2019
Piezoelectric Materials synthesis and Development Funding Agency: NESCOM Amount: PKR 200,000.00 Status: Completed	2015
Modeling of Biomechanical Movement for Active Prosthetic Manufacturing and Assembly Funding Agency: NESCOM Amount: PKR 200,000.00 Status: Completed International Projects	2015
Industry Projects	
National Projects Design and Development of Hybrid Wind Tunnel Model Client: NESCOM Amount: PKR 300,000.00 Status: Completed International Projects	2017
Research Articles	
A Pareto-optimality based black widow spider algorithm for energy efficient flexible job shop scheduling problem considering new job insertion 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	2024
Processing of silicon added Fe-Cr-Co hard magnetic alloy by two stage thermomagnetic treatment technique 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	2023
Toward clean manufacturing: an analysis and validation of a modified Johnson–Cook material model	2023

for low and high-speed orthogonal machining of low-carbon aluminum alloy (Al 6061-T6)

Sohail Akram Syed Husain Imran Jaffery Zahid Anwar Mushtaq Khan Muhammad Ali Khan

International Journal of Advanced Manufacturing Technology, Pages 1-14
Impact Factor: 3.4 | Quartile: 2 | Citations: 2

DOI: 10.1007/s00170-023-12367-0

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

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

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

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

Journal of Magnetics, 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

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

 $\textbf{Impact Factor: } 2.311 \mid \textbf{Quartile: } 3 \mid \textbf{Citations: } 9$

DOI: 10.1177/1464420720946431

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

2020

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

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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 Mushtaq Khan Syed Hussain Imran Jaffery Zarak Khan Muhammad Younas Kamran S. Afaq Muhammad Ali Khan Mechanical Sciences, Volume 11, Pages 329–347	2020
Impact Factor: 1.086 Quartile: 4 Citations: 9 DOI: https://doi.org/10.5194/ms-11-329-2020 Effect of Microstructure on the Coercivity of SmCo5 Intermetallic Compound Saleem Akhtar Mushtaq Khan Aamer Nusair Khan Syed Husain Imran Jaffery Materials Transactions , Volume 61(11), Pages 2195-2200	2020
Impact Factor: 1.389 Quartile: 3 Citations: 2 DOI: https://doi.org/10.2320/matertrans.MT-M2019350 Effect of Solidification Process on the Magnetic Properties of Samarium Cobalt Intermetallic	2020
Compounds Saleem Akhtar A. Nusair Khan Mushtaq Khan Syed Husain Imran Jaffery Materials Transactions, Volume 61, Issue 5, Pages 1008-1013 Impact Factor: 1.389 Quartile: 3 Citations: 1 DOI: https://doi.org/10.2320/matertrans.MT-M2019269	
Performance comparison of a two-bed solar-driven adsorption chiller with optimal fixed and adaptive cycle times using a silica gel/water working pair Najam ul Qadir S.A.M. Said R.B. Mansour Syed Hussain Imran Jaffery Mushtaq Khan Renewable Energy, 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 Sara Baber Sial Rumshaa Yunus Yasar Ayaz Mushtaq Khan Shamsa Kanwal Uzma Akhlaque Raheel Nawaz IEEE Access, 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) Syed Husain Imran Jaffery Muhammad Younas Shahid I Butt Riaz Ahmad Muhammad Ali Khan Mushtaq Khan Salman Sagheer Warsi The International Journal of Advanced Manufacturing Technology, 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 Riaz Ahmad Syed Husain Imran Jaffery Mujtaba Hassan Agha Salman Sagheer Warsi Mushtaq Khan The International Journal of Advanced Manufacturing Technology, 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 Muhammad Ali Khan Syed Husain Imran Jaffery Mushtaq Khan Muhammad Younas Shahid Ikramullah Butt Riaz Ahmad Salman Sagheer Warsi Mechanical Sciences, 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) Muhammad Younas Syed Husain Imran Jaffery Mushtaq Khan Muhammad Ali Khan Riaz Ahmad Aamir Mubashar Liaqat Ali International Journal of Advanced Manufacturing Technology, 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 Saif-ur-Rehman Mushtaq Khan A. Nusair Khan Liaqat Ali Syed Hussain Imran Jaffery Muhammad Khurram Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing, 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)

Muhammad Younas Syed Husain Imran Jaffery Mushtaq Khan Riaz Ahmad Liaqat Ali Zarak Khan Aftab Khan

Mechanical Sciences, Volume 10, Issue 2, Pages 373-382

Impact Factor: 1.015 | Quartile: 4 | Citations: 30

DOI: 10.5194/ms-10-373-2019

Enhanced Performance for Multi-Forearm Movement Decoding Using Hybrid IMU-sEMG Interface

2019

Waseem Shahzad Noman Naseer Mushtag Khan Muhammad Jawad Khan Yasar Ayaz

Frontiers in Neurorobotics, Volume 13, Article Number 43

Impact Factor: 2.574 | Quartile: 2 | Citations: 35

DOI: 10.3389/fnbot.2019.00043

Multi-Forearm Movement Detection Using Sensor Fusion Techniques for Rehabilitation

Waseem Shahzad Yasar Ayaz Muhammad Jawad Khan Noman Naseer Mushtaq khan

Frontiers in Neurorobotics, Volume 13, Article Number 43

Impact Factor: 2.574 | Quartile: 2 | Citations: 34 DOI: https://doi.org/10.3389/fnbot.2019.00043

Influence of Cu addition on transformation temperatures and thermal stability of TiNiPd high

temperature shape memory alloys

Mushtaq Khan Syed Husain Imran Jaffery Saif ur Rehman A Nusair Khan Khurshid Alam Liaqat Ali Ashfaq Khan

Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials Design and Applications, Volume 233, Issue 5, Pages 800-808

Impact Factor: 2.014 | Quartile: 3 | Citations: 4

DOI: 10.1177/1464420717702679

Parametric analysis of wax printing technique for fabricating microfluidic paper-based analytic devices

(µPAD) for milk adulteration analysis

Muhammad Younas Ammara Maryam Mushtaq Khan Ahmad Ahsan Nawaz Syed Husian Imran Jaffery Muhammad Nabeel Anwar Liaqat Ali

Microfluidics and Nanofluidics, Volume 23, Issue 3, Article Number 38

Impact Factor: 2.489 | Quartile: 2 | Citations: 47

DOI: 10.1007/s10404-019-2208-z

Sustainable turning using multi-objective optimization: a study of Al6061 T6 at high cutting speeds

Salman Sagheer Warsi Mujtaba Hassan Agha Riaz Ahmad Syed Husain Imran Jaffery Mushtaq Khan

International Journal of Advanced Manufacturing Technology, Volume 100, Issue 1-4, Pages 843-855

Impact Factor: 2.633 | Quartile: 2 | Citations: 51

DOI: 10.1007/s00170-018-2759-2

Development of energy consumption map for orthogonal machining of Al 6061-T6 alloy

Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtaq Khan Mujtaba Hassan Agha Sohail Akram Liaqat Ali

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Volume 232, Issue 14, Pages 2510-2522

Impact Factor: 1.752 | Quartile: 3 | Citations: 45

DOI: 10.1177/0954405417703424

Numerical and experimental investigation of Johnson? Cook material models for aluminum (Al 6061-T6)

alloy using orthogonal machining approach

Sohail Akram Liaqat Ali Syed Hussain Imran Jaffery Mushtaq Khan Muhammad Fahad Aamir Mubashar

Advances in Mechanical Engineering, Volume 10(9), Pages 1-14

Impact Factor: 1.024 | Quartile: 4 | Citations: 115

DOI: 10.1177/1687814018797794

Analysis of Burr Formation in Low Speed Micro-milling of Titanium Alloy (Ti-6Al-4V)

Gulfam-ul-Rehman Syed Husain Imran Jaffery Mushtaq Khan Liagat Ali Ashfaq Khan Shahid Ikramullah Butt

Mechanical Sciences, Volume: 9, Issue: 2, Pages: 231-243

Impact Factor: 1.052 | Quartile: 4 | Citations: 22

DOI: 10.5194/ms-9-231-2018

Development of a STEP-compliant design and manufacturing framework for discrete sheet metal bend

parts

Syed Husain Imran Jaffery Zahid Faraz Syed Waheed ul Haq Liaqat Ali Wasim Akram Tarar Aamer Ahmed Baqai Mushtaq Khan Rizwan Saeed Choudhry Khalid Mahmood

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Volume 232, Issue 6, Pages 1090-1104

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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

Salman Sagheer Warsi Syed Husain Imran Jaffery Riaz Ahmad Mushtaq Khan Mujtaba Hassan Agha Liaqat Ali

The International Journal of Advanced Manufacturing Technology, Volume 96, Issue 1-4, Pages 91-102

Impact Factor: 2.496 | Quartile: 2 | Citations: 39

DOI: 10.1007/s00170-018-1588-7

Topology optimisation of adhesive joints using non-parametric methods

H. Ejaz A. Mubashar I. A. Ashcroft Mushtag Khan Emad Uddin

International Journal Of Adhesion And Adhesives, NULL

Impact Factor: 2.501 | Quartile: 2 | Citations: 30 DOI: https://doi.org/10.1016/j.ijadhadh.2017.11.003

Evaluation of eddy current signatures for predicting different heat treatment effects in chromium?

vanadium (CrV) spring steel

Javeria Hashmi Mushtaq Khan Syed Husain Imran Jaffery Mahmood Khan Liaqat Ali Muhammad Nabeel Anwar Tayyab Subhani

Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Volume 231(3), Pages 259–271

Impact Factor: 1.281 | Quartile: 3 | Citations: 3

DOI: 10.1177/1464420715595432

Lossless image compression: application of Bi-level Burrows Wheeler Compression Algorithm

(BBWCA) to 2-D data

Aftab Khan Ashfaq Khan Mushtaq Khan Muhammad Uzair

Multimedia Tools and Applications, Volume: 76, Issue: 10, Pages 12391-12416

Impact Factor: 1.541 | Quartile: 2 | Citations: 18

DOI: doi:10.1007/s11042-016-3629-2

Sheet-metal bend sequence planning subjected to process and material variations

Zahid Faraz Syed Waheed ul Haq Liaqat Ali Khalid Mahmood Wasim Akram Tarar Aamer Ahmed Baqai Mushtaq Khan Syed Husain Imran

The International Journal of Advanced Manufacturing Technology, NULL

Impact Factor: 2.601 | Quartile: 2 | Citations: 11

DOI: 10.1007/s00170-016-8823-x

Analysis of weld characteristics of micro-plasma arc welding and tungsten inert gas welding of thin

stainless steel (304L) sheet

Syed Husain Imran Jaffery Sadaf Batool Mushtaq Khan Ashfaq Khan Aamir Mubashar Liaqat Ali Nawar Khan Muhammad Nabeel Anwar

Proceedings of the Institution of Mechanical Engineers, Part L.: Journal of Materials: Design and Applications, Volume 230, Issue 6, Pages, 1005-1017

Impact Factor: 1.625 | Quartile: 3 | Citations: 27

DOI: 10.1177/1464420715592438

Hybridization of simulated annealing with genetic algorithm for cell formation problem

Mushtaq Khan Nawar Khan Adnan Tariq Liagat Ali Farooque Azam Syed Husain Imran Jaffery Alam Zeb

The International Journal of Advanced Manufacturing Technology, Volume 86, Issue 5-8, Pages 2243-2254

Impact Factor: 2.209 | Quartile: 2 | Citations: 25

DOI: 10.1007/s00170-015-8288-3

Practical implementation of the on-board solar photovoltaic for the passenger transportation

Sulaiman Khan Syed Husain Imran Mushtaq Khan Numan Khan

International Journal of Smart Grid and Clean Energy, Vol.5, No.3, Pages 168-173

Impact Factor: 0

DOI: 10.12720/sgce.5.3.168-173

Statistical analysis of process parameters in micromachining of Ti-6Al-4V alloy

Syed Husain Imran Jaffery Mushtaq Khan Liaqat Ali Paul T Mativenga

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Volume 230, Issue 6. Pages 1017-1034

Impact Factor: 1.366 | Quartile: 3 | Citations: 66

DOI: 10.1177/0954405414564409

In-vitro analysis of forces in conventional and ultrasonically assisted drilling of bone

K Alam Edris Hassan Syed Hussain Imran Jaffery Mushtaq Khan

Bio-Medical Materials and Engineering, Volume 27, Issue 1, Pages 101-110

Impact Factor: 0.700 | Quartile: 4 | Citations: 11

DOI: 10.3233/BME-161569

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Impact Factor: 0.678 | Quartile: 4 | Citations: 16

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

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	
Impact Factor: 1.486 Quartile: 2 Citations: 41 DOI: https://doi.org/10.1080/10426914.2012.746698	
Selective Laser Melting (SLM) of Gold (Au)	2012
Mushtaq khan Phill Dickens	
Rapid Prototyping Journal, Volume 18, Issue 1, Pages 81-94	
Impact Factor: 1 Quartile: 2 Citations: 44 DOI: DOI 10.1108/13552541211193520	
Selective Laser Melting (SLM) of Pure Gold	2010
Mushtaq khan Phill Dickens	
Gold Bulletin, Volume 43(2), Pages114–121	
Impact Factor: 2.719 Quartile: 1 Citations: 84 DOI: https://doi.org/10.1007/BF03214976	
Conference Proceedings	
Specific cutting energy analysis of turning Ti-6Al-4V under dry, wet and cryogenic conditions	2022
Muhammad Ali Khan Syed Hussain Imran Jaffery Aamer Ahmed Baqai Mushtaq Khan	
11th International Conference on Through-life Engineering Services – TESConf2022, res.country(231,)	
Citations: N/A	
DOI: https://dspace.lib.cranfield.ac.uk/handle/1826/18659	
Effects of Machining Parameters on Feed Direction Cutting Forces in Meso-Scale End-Milling of Ti-6Al- 4V under Dry, Wet and MQL Environment	2022
Adil Rauf Syed Hussain Imran Jaffery Mushtaq Khan Najam Ul Qadir Shamraiz Ahmad Danyal Zahid	
19th International Conference in Manufacturing Research, res.country(231,)	
Citations: N/A	
DOI: Nil	
Study of Process Parameters on Cutting Forces in Meso-Scale Milling of Inconel 718 Alloy	2022
Danyal ZAHID Najam ul QADIR Syed Husain Imran JAFFERY Mushtaq KHAN Shahid Ikramullah Butt Riaz MUHAMMAD Adil RAUF	
19th International Conference on Manufacturing Research, ICMR 2022, res.country(231,)	
Citations: N/A	
DOI: 10.3233/ATDE220581	
Surface Roughness Analysis in High Speed Micro-Milling of Monel 400 Alloy Using Statistical Methods	2022
Amjad BAIG Syed Hussain Imran Jaffery Mushtaq Khan	
19th International Conference on Manufacturing Research , res.country(231,)	
Citations: N/A	
DOI: 10.3233/ATDE220585	
Effect of machining parameters on surface roughness during milling operation	2021
Sajid Raza Zaidi Mushtaq Khan Syed Hussain Imran Jaffery Salman Sagheer Warsi	
Advances in Transdisciplinary Engineering, res.country(231,)	
Citations: N/A	
DOI: 10.3233/ATDE210033	
Multi Depot Vehicle Routing Using Ant Colony Optimization - Trip Assignment of Freight Flow Using	2021
Modified Gravity Model	
Husnain Saeed Dr. Shahid Ikramullah Butt Dr Mushtaq Khan Fahd Amjad Dr. Liaqat Ali Dr. Faping Zhang	
8th International Conference on Industrial Engineering and Applications, ICIEA 2021-Europe, res.country(68,)	
Citations: N/A	
DOI: https://doi.org/10.1145/3463858.3463879	
Sustainability Analysis of Turning Aerospace Alloy Ti-6Al-4V under Dry, Wet and Cryogenic Condition	2020
Muhammad Ali Khan Syed Hussain Imran Jaffery Mushtaq Khan Riaz Ahmad Shahid Ikram Ullah Butt	
2020 IEEE 11th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT), res.country(247,)	
Citations: N/A	
DOI: 10.1109/ICMIMT49010.2020.9041160	
Sustainability Analysis of Turning Aerospace Alloy Ti-6Al-4V under Dry, Wet and Cryogenic Conditions	2020
Muhammad Ali Khan Syed Hussain Imran Jaffery Mushtaq Khan Riaz Ahmad	

2020 IEEE 11th International Conference on Mechanical and Intelligent Manufacturing Technologies, ICMIMT 2020, res.country(247,)

Citations: N/A

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Sustainability Analysis of Turning Aerospace Alloy Ti-6AI-4V under Dry, Wet and Cryogenic Conditions

2020

Muhammad Ali Khan Syed Hussain Imran Jaffery Mushtaq Khan Riaz Ahmad Shahid Ikram Ullah Butt

2020 IEEE 11th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT), res.country(247,)

Citations: N/A

DOI: 10.1109/ICMIMT49010.2020.9041160

Analysis of surface treatment of ASTM A516 Grade 70 using Salt spray method

2019

Muhammad Ali Khan Aqueel Shah Syed Hussain Imran Jaffery Mushtaq Khan IOP Conference Series: Materials Science and Engineering, res.country(233,)

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2019

Editor in Chief of Journal

Editorial Activities

Impact Factor: N/A