

Haris Ali Khan

Adjunct Faculty
College of Aeronautical Engineering

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About

Dr. Haris Ali Khan is working as Adjunct Faculty in the College of Aeronautical Engineering. Dr. Haris Ali Khan has a PhD in Industrial Manufacturing Engineering. Dr. Haris Ali Khan has published 23 research articles & conference papers having a citation count of 161, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Industrial Manufacturing Engineering Pennsylvania State University , United States	2015 - 2020
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Experience

Adjunct Faculty College of Aeronautical Engineering	2024- Present
Defence Faculty College of Aeronautical Engineering	2020 - 2024
Maintenance Engineer C-130 Overhauling Depot , PAF Base Nur Khan	2007 - 2013

Research Projects

National Projects	
Indigenous development of scanning scheme to identify loose rivets in aircraft skin panel Funding Agency: PAF Amount: PKR 900,000.00 Status: Approved_inprocess	2022
Finite Element for identification of critically stressed area of an Aircraft's Engine Intake area Funding Agency: PAF Amount: PKR 900,000.00 Status: Approved_inprocess	2022

International Projects

Research Articles

A Lock-In thermography based post-processing scheme for the detection of sub-surface rivet-related defects in aircraft structures Haris Ali Khan Sharjeel Salik Butt Shahab Uddin Ali Javed Talha Ali Khan Zia Ul Islam Mechanical Systems and Signal Processing, Volume 228, Article Number 112423 Impact Factor: 7.900 Quartile: 1 DOI: https://doi.org/10.1016/j.ymssp.2025.112423	2025
Investigating the failure mechanism of an aircraft longeron fitting and devising the mitigation techniques Syed muhammad wajeeh Shah Sara Khushbash Haris Ali Khan Muhammad Talha Engineering Failure Analysis , Volume 168, Article Number 109115 Impact Factor: 4.400 Quartile: 1 Citations: 1 DOI: 10.1016/j.engfailanal.2024.109115	2025
Towards diagnostics of aerospace structural defects using a novel physics-based post-processing scheme employing lock-in thermography	2025

Investigation of temperature assisted corrosion failure of an aircraft turbine blade

2025

Asad Hameed Sara Khushbash Asad Mumtaz Haris Ali Khan Aamer Shahzad

Engineering Failure Analysis , Volume:167, Part A, ID:108909,

Impact Factor: 4.4 | **Quartile:** 1 | **Citations:** 1

DOI: <https://doi.org/10.1016/j.engfailanal.2024.108909>

A quadrilateral inverse plate element for real-time shape-sensing and structural health monitoring of thin plate structures

2024

Ihtisham Khalid Zahid Ahmed Qureshi Haris Ali Khan Selda Oterkus Erkan Oterkus

Computers and Structures , Volume 305, Article Number 107551

Impact Factor: 4.400 | **Quartile:** 1 | **Citations:** 6

DOI: doi.org/10.1016/j.compstruc.2024.107551

Extrusion-based additive manufacturing of CFRP/steel/CFRP multi-material structure: Process development and influence of heat treatment on the mechanical performance

2024

Waseem Ahmad Haris Ali Khan Sharjeel Salik Hafiz Qasim Ali Sara Khushbash Zahid Ahmad

Journal of Manufacturing Processes , Volume 124 , Pages 891-908

Impact Factor: 6.100 | **Quartile:** 1 | **Citations:** 6

DOI: <https://doi.org/10.1016/j.jmapro.2024.06.017>

Multi-functional hybrid sandwich composite structures: Evaluating damage mechanics and tolerance using compression after impacts

2024

Zafar Iqbal Malik Adeel Umer Haris Ali Khan Kamran Asim

Journal of Reinforced Plastics and Composites, Pages 1-17

Impact Factor: 2.300 | **Quartile:** 3

DOI: <https://doi.org/10.1177/0731684424127298>

Investigating damage resistance in aerospace radome applications: Experimental analysis of hybrid sandwich composites

2024

Zafar Iqbal Malik Adeel Umer Kamran Asim Haris Ali Khan

Journal of Reinforced Plastics and Composites, Pages:16

Impact Factor: 3.100 | **Quartile:** 2 | **Citations:** 5

DOI: [10.1177/07316844241229849](https://doi.org/10.1177/07316844241229849)

Design, Development, and Performance Evaluation of FDM-Based Fastening Techniques for Single-Lap Joints

2023

Maqsoora Nazim Haris Ali Khan Sabih Ahmad Khan Hamza Liaqat Khurram Rehman

JOM , Pages 1-11

Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 6

DOI: <https://doi.org/10.1007/s11837-023-06324-1>

Multi-disciplinary optimization of hybrid composite radomes for enhanced performance

2023

Muhammad Talha Aamir Muhammad Ali Nasir Zafar Iqbal Haris Ali Khan Zhaib Muneer

Results in Engineering , Volume:20, Issue:1, Article Number: 101547

Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 12

DOI: [10.1016/j.rineng.2023.101547](https://doi.org/10.1016/j.rineng.2023.101547)

Development of a design space for dissimilar materials joining in aerospace applications

2023

Sabih Ahmad Khan Hamza Liaqat Farooq Bin Akram Haris Ali Khan

Aeronautical Journal , Pages 1-18

Impact Factor: 1.4 | **Quartile:** 3 | **Citations:** 5

DOI: [10.1017/aer.2023.109](https://doi.org/10.1017/aer.2023.109)

Investigation of the mechanical behavior of FDM processed CFRP/Al hybrid joint at elevated temperatures

2023

Sabih Ahmad Khan Haris Ali Khan Abdullah Khan Shuaib Salamat Syed Saad Javaid Raja Muhammad Awais

Thin-Walled Structures , Volume 192, Article Number 111135

Impact Factor: 6.4 | **Quartile:** 1 | **Citations:** 16

DOI: <https://doi.org/10.1016/j.tws.2023.111135>

Investigation of failure and development of mitigation techniques of a cracked aircraft wing spar cap <i>Haris Ali Khan Asad Hameed Armaghan Shahid S Zameer Abbas Sara Khushbash</i> <i>Engineering Failure Analysis</i> , Volume 147, Article Number 107149 Impact Factor: 4.0 Quartile: 1 Citations: 10 DOI: 10.1016/j.engfailanal.2023.107149	2023
A Novel Framework for Qualification of a Composite-Based Main Landing Gear Strut of a Lightweight Aircraft <i>Muhammad Ayaz Ahmad Syed Irteza Ali Shah Sabih Ahmad Khan Haris Ali Khan Taimur Ali Shams</i> <i>Polymers</i> , Volume 15(6), Article Number 1402 Impact Factor: 4.967 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/polym15061402	2023
Classification of progressive failure and mechanical behavior of dissimilar material hybrid joints at varying temperatures <i>Raja Muhammad Awais Zain-ul-Abidin Sabih Ahmad Khan Haris Ali Khan Sara Khushbash</i> <i>Thin-Walled Structures</i> , Volume 182, Part A, Article Number 110212 Impact Factor: 5.881 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.tws.2022.110212	2023
Sensor Fusion and On-Line Monitoring of Friction Stir Blind Riveting for Lightweight Materials Manufacturing <i>Zhe Gao Haris Ali Khan Jingjing Li Weihong (Grace) Guo</i> <i>Journal of Manufacturing Science and Engineering</i> , Volume 144(6), Article Number 061009 Impact Factor: 3.033 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1115/1.4052907	2022
Development and characterization of a new riveting process for pre-drilled holes hard-to-access aircraft riveted joints <i>Haris Ali Khan Nafey Zafar Asad Hameed M Farooq Bin Akram Kamran Asim Syed Saad Javaid Abdullah Khan</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Pages 1-12 Impact Factor: 3.4 Quartile: 2 Citations: 8 DOI: 10.1007/s00170-022-09167-3	2022
Failure analysis of a cracked cylinder block assembly of an aircraft brake system <i>Asad Hameed Ali Nawaz Haris Ali Khan M Farooq Akram Zahid Mehmood</i> <i>Engineering Failure Analysis</i> , Volume 133, Article Number 105948 Impact Factor: 3.114 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1016/j.engfailanal.2021.105948	2022
Design space optimisation of an unmanned aerial vehicle submerged inlet through the formulation of a data-fusion-based hybrid model <i>M Farooq Bin Akram Haris Ali Khan Taimur Ali Shams Dimitri Mavris</i> <i>The Aeronautical Journal</i> , Volume 125 , Issue 1292 , Pages 1815-1832 Impact Factor: 0.818 Quartile: 4 Citations: 5 DOI: https://doi.org/10.1017/aer.2021.37	2021
Roll Bonding Processes: State-of-the-Art and Future Perspectives <i>Haris Ali Khan Kamran Asim Farooq Bin Akram Asad Hameed Abdullah Khan Bilal Mansoor</i> <i>Metals</i> , Volume 11(9), 1344 Impact Factor: 2.351 Quartile: 2 Citations: 46 DOI: https://doi.org/10.3390/met11091344	2021
Increased $\Sigma 3$ boundaries: Effects of friction stir and post heating on pure copper <i>Nannan Chen Haris Ali Khan Shenxi Li Jingjing Li</i> <i>Materials Characterization</i> , Volume 176, Article Number 111120 Impact Factor: 4.342 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.matchar.2021.111120	2021

Investigation of Temperature Assisted Corrosion Failure of an Aircraft Turbine Blade

2024

SARA KHUSHBASH Asad hameed ASAD MUMTAZ BHATTI Haris Ali Khan Aamer Shahzad Farooq bin akram
10th International Conference on Engineering Failure Analysis, res.country(88,)

Citations: N/A

DOI: not given yet