Zahid Ahmad

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About

Dr. Zahid Ahmad is working as Defence Faculty in the College of Aeronautical Engineering. Dr. Zahid Ahmad has published 11 research articles & conference papers having a citation count of 26, carried out 0 projects and filed 0 intellectual property.

Qualifications

MS in Mechanical Engineering 2016 - 2018
Khalifa University , United Arab Emirates

Experience

Defence Faculty 2022- Present
College of Aeronautical Engineering

Research Articles

Structural health monitoring of shell structures with preexisting cracks 2025

Ihtisham Khalid Zahid Ahmad Yasir Ali Selda Oterkus Erkan Oterkus

Mechanical Systems and Signal Processing, Volume:231, Article Number 112663

Impact Factor: 7.900 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.ymssp.2025.112663

Structural Health Monitoring of aerospace thin plate and shell structures using the inverse finite element method (iFEM) 2025

Ihtisham Khalid Zahid Ahmad Selda Oterkus Erkan Oterkus

Thin-Walled Structures , Volume:209, Article Number: 112923, Pages:16

Impact Factor: 5.700 | **Quartile:** 1 | **Citations:** 4

DOI: doi.org/10.1016/j.tws.2025.112923

Structural Health Monitoring of Thin Shell Structures 2025

Ihtisham Khalid Zahid Ahmad Faisal Siddiqui Selda Oterkus Erkan Oterkus

International Journal of Mechanical System Dynamics, Pages:20

Impact Factor: 3.4 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1002/msd2.12141

Towards diagnostics of aerospace structural defects using a novel physics-based post-processing scheme employing lock-in thermography 2025

Zia Ul Islam Haris Ali Khan Zahid Ahmed Qureshi Maheen Khan Abdullah Tariq Butt Talha Ali Khan

Measurement , Volume 241, Article Number 115645

Impact Factor: 5.200 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1016/j.measurement.2024.115645

Structural health monitoring of precracked structures using an in-plane inverse crack-tip element 2024

Ihtisham Khalid Zahid Ahmad Hafiz Qasim Ali Selda Oterkus Erkan Oterkus

International Journal of Mechanical System Dynamics, Volume:04, Issue:04, Pages: 406-426

Impact Factor: 3.4 | **Quartile:** 1 | **Citations:** 2

DOI: https://doi.org/10.1002/msd2.12136

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

Design and performance assessment of a triply-periodic-minimal-surface structures-enhanced gallium heat sink for high heat flux dissipation: A numerical study 2024

Salah Addin Burhan Al-Omari Mohammad Qasem Zahid Ahmed Qureshi Emad Elnajjar Oraib Al-Ketan Rashid Abu Al-Rub

Applied Thermal Engineering, Volume: 257, Part A, Article Number: 124154

Impact Factor: 6.1 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.applthermaleng.2024.124154

Effect of source-sink misalignment and sink cavity aspect ratio on the thermal performance of gallium heat sinks 2024

Salah Addin Al-Omari Mohammad Qasem Zahid Ahmad Emad Elnajjar

International Journal of Thermofluids, Volume:24, Article Number: 100952, Pages:24

Impact Factor: N/A

DOI: 10.1016/j.ijft.2024.100952

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

Conference Proceedings

Effectiveness of Multi Baffles With Trefoils on the Performance of Shell and Tube Heat Exchanger 2024

Farhad Ali Tariq Amin Khan Zahid Ahmad Qureshi Muhammad Muzafar Wei Li

ASME 2024 Heat Transfer Summer Conference, res.country(233,)

Citations: N/A

DOI: https://doi.org/10.1115/HT2024-130564