

Muhammad Irsalan Arif

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College of Aeronautical Engineering
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Contact:



About

Dr. Muhammad Irsalan Arif is working as Defence Faculty in the College of Aeronautical Engineering. Dr. Muhammad Irsalan Arif has published 11 research articles & conference papers having a citation count of 77, carried out 0 projects and filed 0 intellectual property.

Qualifications

Experience

Defence Faculty	2025- Present
College of Aeronautical Engineering	
Defence Faculty	2023 - 2025
College of Aeronautical Engineering	
Defence Faculty	2018 - 2023
College of Aeronautical Engineering	
Defence Faculty	2015 - 2018
College of Aeronautical Engineering	

Research Articles

Deep cavity noise suppression by exploiting aeroacoustic–structural interaction of multiple elastic panels	2024
Muhammad Rehan Naseer Muhammad Irsalan Arif Ali Abullah Randolph C. K. Leung	
Physics of Fluids , Volume 36, Issue 5, Article Number 057141	
Impact Factor: 4.100 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1063/5.0206185	
Control of acoustic scattering of trailing edge flow by distributed compliance	2023
Muhammad Irsalan Arif Muhammad Rehan Naseer Randolph C. K. Leung Shuaib Salamat	
Physics of Fluids , Volume:35, Issue:10, Article Number: 106115	
Impact Factor: 4.6 Quartile: 1 Citations: 4	
DOI: 10.1063/5.0165765	
Suppression of deep cavity aeroacoustics at low Mach number by localized surface compliance	2023
Muhammad Irsalan Arif Muhammad Rehan Naseer Randolph C. K. Leung Garret C. Y. Lam	
Physics of Fluids , Volume 35, Issue 5, Article Number 056115	
Impact Factor: 4.6 Quartile: 1 Citations: 5	
DOI: https://doi.org/10.1063/5.0148276	
A computational study of trailing edge noise suppression with embedded structural compliance	2023
Muhammad Irsalan Arif Randolph C. K. Leung Muhammad Rehan Naseer	
JASA Express Letters , Volume 3(2), Article Number 023602	
Impact Factor: 1.200 Quartile: 3 Citations: 4	
DOI: https://doi.org/10.1121/10.0017321	
Coupled structural resonance of elastic panels for suppression of airfoil tonal noise	2022
Muhammad Irsalan Arif Garret C. Y. Lam Randolph C. K. Leung	
Journal of Fluids and Structures , Volume 110, Article Number 103506	
Impact Factor: 3.6 Quartile: 2 Citations: 3	
DOI: https://doi.org/10.1016/j.jfluidstructs.2022.103506	
Design and optimization of bump (compression surface) for diverterless supersonic inlet	2022
Muhammad Irsalan Arif Hassan Iftikhar Ali Javed	

Impact Factor: 1.1 | **Quartile:** 4 | **Citations:** 8

DOI: <https://doi.org/10.1177/09544100211002970>

Aircraft Stability Characteristics in a Single Horizontal Tail Failure and Evaluation of Countermeasures for Safe Landing

2021

Muhammad Irsalan Arif Talha Ansari Ali Javed

Journal of Applied Fluid Mechanics, Volume:14, Issue:3, Page:847-859

Impact Factor: 1.152 | **Quartile:** 4 | **Citations:** 1

DOI: 10.47176/jafm.14.03.31974

Passive airfoil tonal noise reduction by localized flow-induced vibration of an elastic panel

2020

Garret C. Y. Lam Wu Di Randolph C. K. Leung Muhammad Irsalan Arif

Aerospace Science and Technology, Volume 107, Article Number 106319

Impact Factor: 5.107 | **Quartile:** 1 | **Citations:** 17

DOI: <https://doi.org/10.1016/j.ast.2020.106319>

Exploring airfoil tonal noise reduction with elastic panel using perturbation evolution method

2020

Muhammad Irsalan Arif Wu Di Garret C. Y. Lam Randolph C. K. Leung

AIAA Journal, Volume 58, Issue 11, Pages 4958-4968

Impact Factor: 2.127 | **Quartile:** 1 | **Citations:** 10

DOI: <https://doi.org/10.2514/1.J059191>

Computational analysis of integrated Engine exhaust nozzle on a supersonic fighter aircraft

2018

Muhammad Irsalan Arif Jehanzeb Masud Syed Irteza Ali Shah

Journal of Applied Fluid Mechanics, Volume 11, Issue 6, Pages 1511-1520

Impact Factor: 0.914 | **Quartile:** 4 | **Citations:** 15

DOI: 10.29252/jafm.11.06.28989

Comparative flow field analysis of Boundary Layer Diverter Intake and Diverterless Supersonic Intake Configuration

2018

Muhammad Irsalan Arif Shuaib Salamat Mudassir Ahmed Faiz Qureshi Syed Irteza Ali Shah

Journal of Applied Fluid Mechanics, Volume 11, Issue 4, Pages 1125-1131

Impact Factor: 0.914 | **Quartile:** 4 | **Citations:** 6

DOI: 10.29252/jafm.11.04.27928