Muhammad Osama Ali

Assistant Professor

College of Electrical & Mechanical Engineering

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Contact:

About

Dr. Muhammad Osama Ali is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Muhammad Osama Ali has a PhD in MEMS Microfabrication. Dr. Muhammad Osama Ali has published 5 research articles & conference papers having a citation count of 32, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in MEMS Microfabrication 2013 - 2019
Carleton University , Canada

MS in MEMS Microfabrication 2009 - 2011
University of Texas at Arlington , United States

BE in Mechatronics 2003 - 2007
College of Electrical and Mechanical Engineering , Pakistan

Experience

Assistant Professor 2022- Present
College of Electrical & Mechanical Engineering

Assistant Professor 2022 - 2022
College of Electrical & Mechanical Engineering

Assistant Professor 2021 - 2022
PAF-IAST , Mung Haripur

Technology Innovation Lead 2020 - 2020
Gem Learning , F-8

Associate RF Engineer 2011 - 2012
Global Wireless Solutions , Virginia USA

Associate RF Engineer 2010 - 2010
3S Network , Dallas Texas USA

Research Projects

National Projects

Development of Nano-Materials Based Tactile Sensors for Tele-Manipulation in Robotic Surgery 2021
Funding Agency: HEC and British Council
Amount: PKR 43,055,271.00
Status: Completed

International Projects

Research Articles

InterAcT: A Generic Keypoints-Based Lightweight Transformer Model for Recognition of Human Solo Actions and Interactions in Aerial Videos 2025

Mubashir Shah Tahir Habib Nawaz Nasir Rashid Muhammad Osama Ali Rab Nawaz

PLOS ONE, Volume 20(5), Article Number e0323314

Impact Factor: 2.900 | **Quartile:** 1

DOI: https://doi.org/10.1371/journal.pone.0323314

Enhancing Ocular Precision: A Tactile Force Feedback-Enabled Handheld Cyclodialysis Spatula for Eye Surgery 2025

Adeel Arshad Muhammad M. Saleem Hamid Jabbar Muhammad Osama Ali Mohsin Islam Tiwana Rebecca Cheung

IEEE Sensors Journal, Volume 25, No. 2, Article Number 3220-3229

Impact Factor: 4.300 | **Quartile:** 1

DOI: https://doi.org/10.1109/JSEN.2024.3494875

Direct thermal emission testing of aperiodic dielectric stack for narrowband thermal emission at mid-IR 2020

Joseph Botros Muhammad Osama Ali R. Niall Tait Rony E. Amaya Shulabh Gupta

Journal of Applied Physics, Volume 127, Issue 11, Article Number 114502

Impact Factor: 2.546 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1063/1.5140010

Conductor-backed dielectric metasurface thermal emitters for mid-infrared spectroscopy 2020

Muhammad Osama Ali R. Niall Tait Shulabh Gupta

Journal of Applied Physics, Volume 127, Issue 3, Article Number 033105

Impact Factor: 2.546 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1063/1.5125652

High-Q all-dielectric thermal emitters for mid-infrared gas-sensing applications 2017

Muhammad Osama Ali Niall Tait Shulabh Gupta

Journal of the Optical Society of America A: Optics and Image Science, and Vision, Volume:35, Issue:1, Page:119-124

Impact Factor: 1.566 | **Quartile:** 3 | **Citations:** 21

DOI: 10.1364/JOSAA.35.000119