Mohaira Ahmad

Assistant Professor

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About

Dr. Mohaira Ahmad is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Mohaira Ahmad has a PhD in Computational Electromagnetics. Dr. Mohaira Ahmad has published 15 research articles & conference papers having a citation count of 18, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Computational Electromagnetics   2015 - 2019
Jiangsu University of Science and Technology , China

MS in Rf & Microwave   2010 - 2014
NUST, Islamabad , Pakistan

BE in Telecommunication   2006 - 2010
NUST, Islamabad , Pakistan

Experience

Assistant Professor   2021- Present
School of Electrical Engineering and Computer Science

Assistant Professor   2020 - 2021
School of Electrical Engineering and Computer Science

Assistant Professor   2014 - 2015
University of Lahore , Lahore

Research Engineer   2010 - 2012
NRTC , Haripur, Pakistan

Awards

Faculty Development Prog

Research Projects

National Projects

Computational Modeling of Porous Bones using body matched Antennas   2023
Funding Agency: NUST
Amount: PKR 982,000.00
Status: Approved_inprocess

Graphene Integrated Microwave Photonics and their applications   2022
Funding Agency: NUST
Amount: PKR 500,000.00
Status: Completed

International Projects

Research Articles

Modified triple modular redundancy based fault-tolerant three-phase matrix converter design with AI driven diagnostic capabilities

2025

Hybrid Multi-Criteria Decision Framework for Prosumers Energy Storage Systems in Smart Grids

2024

Mathematical modeling development and synthesis of tapered transmission line resonators and filters

2024

The predictive machine learning model of a hydrated inverse vulcanized copolymer for effective mercury sequestration from wastewater

2024

A simple and modular quasi stepped impedance resonator based reconfigurable bandpass filter for 5G applications

2023

Implementation of the convolutional perfectly matched layer (CPML) in the face-centered cubic (FCC) FDTD method

2022

An Efficient Medium Access Control Mechanism for Flying Ad-hoc Networks

2021

Laplace transform current density convolution finite-difference time-domain formulation for the modelling of 1D graphene

2017

Conference Proceedings

Design and Development of non-invasive RF-Based Prototype for Bone Health Evaluation
2025

Zartasha Mustansar Hafiz M. Yasir Bhatti Khujasta Khalid Waqar Ahmad Malik Mohaira Ahmad Ayesha Inam Tarar

14th International Conference on Software and Computer Applications (ICSCA 2025), res.country(157,)

Citations: N/A

DOI: https://doi.org/10.1145/3731806.3731853 A

Design of a Graphene-Based Hexagonal Circular Patch Yagi-Uda MIMO Antenna
2024

Asif Gulzar Mohaira Ahmad Lixia Yang

ISAPE 2024 - 14th International Symposium on Antennas, Propagation and EM Theory, res.country(48,)

Citations: N/A

DOI: 10.1109/ISAPE62431.2024.10840420

Graphene based Ris for thz Wireless Communication
2024

Mohaira Ahmad Azib Ahmed Sajjad ur Rehman Lixia Yang

ISAPE 2024 - 14th International Symposium on Antennas, Propagation and EM Theory, res.country(48,)

Citations: N/A

DOI: 10.1109/ISAPE62431.2024.10840762

Multifunctional Linear Dichroism and Polarization Transforming Metasurface for mm-Wave Application
2024

Ahsaan Gul Hassan Anum Zulqarnain Muhammad Danial Shafi Adnan Nadeem Sultan Shoaib Imran Shoaib Mohaira Ahmad Nosherwan Shoaib

18th European Conference on Antennas and Propagation, 17-22 March 2024, res.country(231,)

Citations: N/A

DOI: Nil

Lumped Element Circuit Model of Resonant Antennas Using Singularity Expansion Method
2021

Mohaira Ahmad Sajjad ur Rehman Waqar A. Malik Afaq Adil Rabbia Sulaiman

2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)

Citations: N/A

DOI: 10.1109/ICMAC54080.2021

CPML Implementation for FCC-FDTD Method
2018

Kangbing Liu Mohaira Ahmad Lijuan Shi Lixia Yang

2018 12th International Symposium on Antennas, Propagation and EM Theory, ISAPE 2018 - Proceedings, res.country(48,)

Citations: N/A

DOI: 10.1109/ISAPE.2018.8634099

Editorial Activities

Results in Engineering
2025

Reviewed Papers for Journals

Impact Factor: 7.9

Results in Engineering
2024

Reviewed Papers for Journals

Impact Factor: 7.9

Waves in Random and Complex Media
2022

Reviewed Papers for Journals

Impact Factor: 4.051

UW Journal of science and technology
2022

Reviewed Papers for Journals

Impact Factor: Nil

UW Journal of science and technology
2021

Reviewed Papers for Journals

Impact Factor: Nil

UW Journal of science and technology
2021

Reviewed Papers for Journals

Impact Factor: Nil