Mohaira Ahmad

Assistant Professor

School of Electrical Engineering and Computer Science

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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	
Danasush Fasimasu	2010 - 2012
Research Engineer	2010 2012

Awards

Faculty Development Prog

Research Projects

National Projects

Computational Modeling of Porous Bones using body matched Antennas

Funding Agency: NUST Amount: PKR 982,000.00 Status: Approved_inprocess

Graphene Integrated Microwave Photonics and their applications

Funding Agency: NUST Amount: PKR 500,000.00 Status: Completed

International Projects

2023

2022

Research Articles

DOI: DOI:10.1049/iet-map.2016.0899

Modified triple modular redundancy based fault-tolerant three-phase matrix converter design with Al	2025
driven diagnostic capabilities	
Faizan Ahmad Mohaira Ahmad Muhammad Adnan Arsalan Ahmed Amin Faisal Hayat Sami ud Din	
Results in Engineering, Volume:25, Article Number 104454	
Impact Factor: 7.900 Quartile: 1 Citations: 1	
DOI: https://doi.org/10.1016/j.rineng.2025.104454	
Hybrid Multi-Criteria Decision Framework for Prosumers Energy Storage Systems in Smart Grids	2024
Mohaira Ahmad Marriam Liaqat Muhammad Adnan Muhammad Sajid Iqbal Faizan Ahmad Sami Ud Din	
IEEE ACCESS, Volume 12, Pages 188046-188071	
Impact Factor: 3.400 Quartile: 2 Citations: 3	
DOI: 10.1109/ACCESS.2024.3514698	
Mathematical modeling development and synthesis of tapered transmission line resonators and filters	2024
Mohaira Ahmad Waqar Ahmad Malik Sajjad Ur Rehman MajeedAS Alkanhal Wazie M Abdulkawi Ahmed Salim Abdel-Fattah A Sheta	
PHYSICA SCRIPTA, Volume:100, Number:01, Article Number:015511	
Impact Factor: 2.6 Quartile: 2	
DOI: 10.1088/1402-4896/ad96e6	
The predictive machine learning model of a hydrated inverse vulcanized copolymer for effective	2024
mercury sequestration from wastewater	
Ali Shaan Manzoor Ghumman Rashid Shamsuddin Mohaira Ahmad Yoshiaki Yoshida Abdul Sami Hamad Almohamadi Amin Abbasi	
Science of the Total Environment, Volume 908, Article Number 168034	
Impact Factor: 9.8 Quartile: 1 Citations: 7	
DOI: https://doi.org/10.1016/j.scitotenv.2023.168034	
A simple and modular quasi stepped impedance resonator based reconfigurable bandpass filter for 5G applications	2023
Muhammad Waqas Sajjad Ur Rehman Mohaira Ahmad Waqar Ahmad Malik Hamza Zad Gul Wazie M. Abdulkawi Majeed A. Alkanhal	
Physica Scripta , Volume 99, Issue 1, Article Number 015517	
Impact Factor: 2.9 Quartile: 2 Citations: 2	
DOI: doi.org/10.1088/1402-4896/ad155f	
Implementation of the convolutional perfectly matched layer (CPML) in the face-centered cubic (FCC)	2022
FDTD method	
Mohaira Ahmad Lixia Yang Rukhshanda Anjum	
Waves in Random and Complex Media, Pages 1-12	
Impact Factor: 4.853 Quartile: 1 Citations: 1	
DOI: https://doi.org/10.1080/17455030.2022.2065042	
An Efficient Medium Access Control Mechanism for Flying Ad-hoc Networks	2021
Fazal Noor Shibli Nisar Muhammad Asghar Khan Insaf Ullah Sajjad ur Rehman Mohaira Ahmad	
Computer Systems Science & Engineering, Volume 38, No.1, Pages 47-63	
Impact Factor: 4.397 Quartile: 1 Citations: 3	
DOI: 10.32604/csse.2021.016430	
Laplace transform current density convolution finite-difference time-domain formulation for the	2017
modelling of 1D graphene	
Mohaira Ahmad Lixia Yang	
IET Microwaves, Antennas & Propagation , Volume:11, Issue:15, Pages: 2211-2218	
Impact Factor: 1.739 Quartile: 3	

Conference Proceedings

Conference Proceedings	
Design and Development of non-invasive RF-Based Prototype for Bone Health Evaluation 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	2025
Design of a Graphene-Based Hexagonal Circular Patch Yagi-Uda MIMO Antenna Asif Gulzar Mohaira Ahmad Lixia Yang ISAPE 2024 - 14th International Symposium on Antennas, Propagation and EM Theory, res.country(48,)	2024
Citations: N/A DOI: 10.1109/ISAPE62431.2024.10840420	
Graphene based Ris for thz Wireless Communication 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	2024
Multifunctional Linear Dichroism and Polarization Transforming Metasurface for mm-Wave Application 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	2024
Lumped Element Circuit Model of Resonant Antennas Using Singularity Expansion Method 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	2021
CPML Implementation for FCC-FDTD Method 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	2018
Editorial Activities	
Results in Engineering Reviewed Papers for Journals Impact Factor: 7.9	2025
Results in Engineering Reviewed Papers for Journals Impact Factor: 7.9	2024
Waves in Random and Complex Media Reviewed Papers for Journals Impact Factor: 4.051	2022
UW Journal of science and technology Reviewed Papers for Journals Impact Factor: Nil	2022
UW Journal of science and technology Reviewed Papers for Journals Impact Factor: Nil	2021
UW Journal of science and technology Reviewed Papers for Journals Impact Factor: Nil	2021