

Usman Illahi

Associate Professor

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About

Dr. Usman Illahi is working as Associate Professor in the College of Aeronautical Engineering. Dr. Usman Illahi has a PhD in RF and Microwave. Dr. Usman Illahi has published 15 research articles & conference papers having a citation count of 461, carried out 0 projects and filed 0 intellectual property.

PhD in RF and Microwave	2016 - 2019
Universiti Kuala Lumpur , Malaysia	
MSc in Electronic Communication	2011 - 2012
University of Nottingham, Malaysia Campus , Malaysia	
B.Sc (Hon) in Communication	2003 - 2007
UET Peshawar , Pakistan	

Associate Professor	2024- Present
College of Aeronautical Engineering	
Assistant Professor	2024 - 2024
College of Aeronautical Engineering	
Assistant Professir	2014 - 2024
Gomal University , Indus Highway Dera Ismail Khan	
Lecturer	2012 - 2014
Gomal University , Indus Highway Dera Ismail Khan	
Lecturer	2009 - 2011
Gomal University , Indus Highway Dera Ismail Khan	
Executive Engineer	2007 - 2009
Wateen Telecom Limited , Main Walton Road, Walton Cantt., Lahore	

Design of an optimized low-profile UWB rectangular dielectric resonator antenna with moon-shaped ground for 5G – millimeter wave applications	2025
Muhammad Usal Ali Lway Faisal Abdulrazak Javed Iqbal Usman Illahi Ghaffer Iqbal Kiani Rehan Ali Khan Hela Elmannai	
AEU - International Journal of Electronics and Communications, Volume:200, Article Number:155903, Pages:11	
Impact Factor: 3.2 Quartile: 2	
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Circularly polarized dual-port MIMO DRA for future Wi-Fi 6E applications	2024
Javed Iqbal Usman Illahi Shahid Mahmood Ramay Mohamad Ismail Sulaiman	
International Journal of Microwave and Wireless Technologies, Pages 1-12	
Impact Factor: 1.400 Quartile: 3 Citations: 5	
DOI: https://doi.org/10.1017/S1759078724000576	
Design and development of a new circularly polarized MIMO wearable DRA for WBAN applications	2024
Usman Illahi Javed Iqbal Shahid Mahmood Ramay Mohamad Ismail Sulaiman	
AEU - International Journal of Electronics and Communications, Volume 177, Article Number 155208	
Impact Factor: 3.000 Quartile: 2 Citations: 6	
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A new deep learning-based technique for rice pest detection using remote sensing <i>Syeda Iqra Hassan Muhammad Mansoor Alam Usman Illahi Mazliham Mohd Suud</i> <i>PeerJ Computer Science</i> , Volume 9, Article Number e1167 Impact Factor: 3.500 Quartile: 1 Citations: 16 DOI: 10.7717/peerj-cs.1167	2023
Rice Crop Counting Using Aerial Imagery and GIS for the Assessment of Soil Health to Increase Crop Yield <i>Syeda Iqra Hassan Muhammad Mansoor Alam Muhammad Yousuf Irfan Zia Muhammad Rashid Usman Illahi Mazliham Mohd Su'ud</i> <i>Sensors</i> , Volume 22, Issue 21, Article Number 8567 Impact Factor: 3.900 Quartile: 2 Citations: 14 DOI: 10.3390/s22218567	2022
Bandwidth Enhancement and Generation of CP of Yagi-Uda-Shape Feed on a Rectangular DRA for 5G Applications <i>Inam Bari Javed Iqbal Haider Ali Abdul Rauf Muhammad Bilal Naveed Jan Usman Illahi Muhammad Arif Muhammad Amir Khan Rania M. Ghoniem</i> <i>Micromachines</i> , Volume 13(11), Article Number 1913 Impact Factor: 3.523 Quartile: 2 Citations: 11 DOI: https://doi.org/10.3390/mi13111913	2022
A Novel Design and Development of a Strip-Fed Circularly Polarized Rectangular Dielectric Resonator Antenna for 5G NR Sub-6 GHz Band Applications <i>Usman Illahi Javed Iqbal Muhammad Irfan Mohamad Ismail Sulaiman Muhammad Abbas Khan Abdul Rauf Inam Bari Mujeeb Abdullah Fazal Muhammad Grzegorz Nowakowski Adam Glowacz</i> <i>Sensors</i> , Volume 22, Issue 15, Article Number 5531 Impact Factor: 3.9 Quartile: 2 Citations: 17 DOI: 10.3390/s22155531	2022
Mutual Coupling Reduction through Defected Ground Structure in Circularly Polarized, Dielectric Resonator-Based MIMO Antennas for Sub-6 GHz 5G Applications <i>Anwar ali Jijun Tong Javed Iqbal Usman Illahi Abdul Rauf Saeed Ur Rehman Haider Ali Muhammad Mansoor Qadir Muhammad Amir Khan Rania M. Ghoniem</i> <i>Micromachines</i> , Volume 13, Issue 7, Article Number 1082 Impact Factor: 3.523 Quartile: 2 Citations: 33 DOI: https://doi.org/10.3390/mi13071082	2022
Bandwidth enhancement by using parasitic patch on dielectric resonator antenna for sub-6 GHz 5G NR bands application <i>J. Iqbal Usman Illahi M.N.M. Yasin Mahmoud A. Albreem M.F. Akbar</i> <i>Alexandria Engineering Journal</i> , Volume 61, Issue 6, Pages 5021-5032 Impact Factor: 6.800 Quartile: 1 Citations: 37 DOI: https://doi.org/10.1016/j.aej.2021.09.049	2022
A Systematic Review on Monitoring and Advanced Control Strategies in Smart Agriculture <i>Syeda Iqra Hassan Muhammad Mansoor Alam Usman Illahi Mohammed A. Al Ghamdi Sultan H. Almotiri Mazliham Mohd Su'ud</i> <i>IEEE Access</i> , Volume 9, Pages 32517-32548 Impact Factor: 3.476 Quartile: 2 Citations: 147 DOI: 10.1109/ACCESS.2021.3057865	2021
Design and development of a singly-fed circularly polarized rectangular dielectric resonator antenna for WiMAX/Satellite/5G NR band applications <i>Usman Illahi Javed Iqbal Mohamad Ismail Sulaiman Mansoor Alam Mazliham Mohd Su'ud Muhammad Irfan Khattak</i> <i>AEU - International Journal of Electronics and Communications</i>, Volume 126, Article Number 153443 Impact Factor: 3.183 Quartile: 2 Citations: 27 DOI: https://doi.org/10.1016/j.aeue.2020.153443	2020
Design of New Circularly Polarized Wearable Dielectric Resonator Antenna for Off-Body Communication in WBAN Applications <i>Usman Illahi Javed Iqbal Mohammad Ismail Sulaiman Muhammad Mansoor Alam Mazliham Mohd Su'Ud Mohd Haizal Jamaluddin Mohd Najib Mohd Yasin</i> <i>IEEE Access</i> , Volume 7, Pages 150573-150582 Impact Factor: 3.745 Quartile: 1 Citations: 32 DOI: 10.1109/ACCESS.2019.2947772	2019
Bandwidth Enhancement and Generation of CP by Using Parasitic Patch on Rectangular DRA for Wireless Applications	2019

Javed Iqbal Usman Illahi Mohamad Ismail Sulaiman Muhammad Mansoor Alam Mazliham Mohd Su'ud Mohd Najib Mohd Yasin Mohd Haizal Jamaluddin
IEEE Access , Volume 7, Pages 94365-94372

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DOI: 10.1109/ACCESS.2019.2924468

Singly-Fed Rectangular Dielectric Resonator Antenna With a Wide Circular Polarization Bandwidth and Beamwidth for WiMAX/Satellite Applications

2019

Mohamad Ismail Sulaiman Usman Illahi Javed Iqbal Muhammad Mansoor Alam Mohd Haizal Jamaluddin
IEEE Access , Volume 7, Pages 66206-66214

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DOI: 10.1109/ACCESS.2019.2917702

Mutual Coupling Reduction Using Hybrid Technique in Wideband Circularly Polarized MIMO Antenna for WiMAX Applications

2019

Mohamad Ismail Sulaiman Javed Iqbal Usman Illahi Muhammad Mansoor Alam Mazliham Mohd Su'ud Mohd Najib Mohd Yasin
IEEE Access , Volume 7, Pages 40951-40958

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 70

DOI: 10.1109/ACCESS.2019.2908001