

FAROOQ AHMAD TAHIR

Professor

School of Electrical Engineering and Computer Science

Email: farooq.tahir@seecs.edu.pk

Contact: 519085255

LinkedIn:



About

Dr. FAROOQ AHMAD TAHIR is working as Professor in the School of Electrical Engineering and Computer Science. Dr. FAROOQ AHMAD TAHIR has a PhD in RF and Microwave. Dr. FAROOQ AHMAD TAHIR has published 108 research articles & conference papers having a citation count of 2274, carried out 10 projects and filed 6 intellectual property.

Qualifications

PhD in RF and Microwave Université de Toulouse , France	2008 - 2011
MS in RF and Microwave Université de Nice-Sophia Antipolis , France	2007 - 2008
BS in Electronics and Telecommunication UET Lahore , Pakistan	2002 - 2005

Experience

Professor School of Electrical Engineering and Computer Science	2023- Present
Professor School of Electrical Engineering and Computer Science	2022 - 2023
Professor Research Institute For Microwave And Millimeter-Wave Studies	2021 - 2022
Associate Professor Research Institute For Microwave And Millimeter-Wave Studies	2017 - 2021
Assistant Professor Research Institute For Microwave And Millimeter-Wave Studies	2012 - 2017
Assistant Professor School of Electrical Engineering and Computer Science	2011 - 2012
Lecturer University of Lahore , Raiwind Road, Lahore	2006 - 2007
Lecturer Institute of Engineering and Technology , PTCL Colony, Mughalpura, Lahore	2006 - 2006

Research Projects

National Projects

Indigenous Development of Log-Periodic Dipole Antenna Funding Agency: PAF Amount: PKR 982,000.00 Status: Approved_inprocess	2022
Design & Development of Ultra Wideband Frequency Selective Surfaces (FSS) for Spatial Filtering Funding Agency: NESCOM Amount: PKR 200,000.00 Status: Approved_inprocess	2021
Design of 2D Electronic Beam Steering Phased Array in the field of Radar Technology Funding Agency: NESCOM Amount: PKR 150,000.00 Status: Approved_inprocess	2021
Design of 2D Electronic Beam Steering Phased Array Funding Agency: NESCOM Amount: PKR 150,000.00 Status: Approved_inprocess	2021
Indigenous Development of Qty 02 Antennas for Vera-E System of PAF Funding Agency: Pakistan Air Force Amount: PKR 1,960,000.00 Status: Completed	2020
Design of high-reliability RF MEMS switch for reconfigurable 5G antennas Funding Agency: HEC Amount: PKR 485,000.00 Status: Completed	2017
Design and Development of Low Cost Chipless RFID Tags Funding Agency: HEC Amount: PKR 8,010,000.00 Status: Completed	2019
Design and Development of Millimeter-Wave Antenna Arrays for Future 5G Communication Systems Funding Agency: HEC Amount: PKR 12,990,000.00 Status: Completed	2019
Design of Radome Enclosed 5G MIMO Antennas with FSS Based Decorrelation System and its Characterization Funding Agency: HEC Amount: PKR 1,603,479.00 Status: Completed	2019

International Projects

Industry Projects

National Projects

Design and Implementation of Direction Finding Antenna Client: NRTC Amount: PKR 1,728,000.00 Status: Completed	2019
---	------

International Projects

Research Articles

Polyaniline/Ta2C MXene nanocomposites for electromagnetic noise reduction <i>Madiha Liaquat Aqsa Arshad Farooq Ahmad Tahir Noshewan Shoaib S. Rahman</i> <i>Results in Engineering</i> , Volume 25, Article Number 103542	2025
--	------

Impact Factor: 6.000 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.rineng.2024.103542	
Encapsulation of Ba–Sr hexaferrite nanoparticles and MWCNTs in conductive polymer matrix for improved dielectric spectroscopy, electromagnetic shielding and microwave absorption applications <i>Muhammad Zarrar Khan iftikhar Hussain Gul FAROOQ AHMAD TAHIR</i> <i>Ceramics International</i> , Volume:49, Issue:17, Page:27796-27814 Impact Factor: 5.2 Quartile: 1 Citations: 12 DOI: 10.1016/j.ceramint.2023.05.266	2023
High-Capacity Double-Sided Square-Mesh-Type Chipless RFID Tags <i>Muhammad Noman Usman A. Haider Hidayat Ullah Muhammad Ikram Hatem Rmili Farooq Ahmad Tahir</i> <i>Electronics</i> , Volume 12, Issue 6, Article Number 1371 Impact Factor: 2.600 Quartile: 2 Citations: 4 DOI: 10.3390/electronics12061371	2023
A Fully Passive Ten-Digit Numeric Keypad Sensor Using Chipless RFID Technology <i>Usman A. Haider Muhammad Noman Hidayat Ullah Hattan F. Abutarboush Qammer H. Abbasi Farooq Ahmad Tahir</i> <i>IEEE Sensors Journal</i> , Volume 23, Issue 3, Pages 2978-2987 Impact Factor: 4.300 Quartile: 1 Citations: 10 DOI: 10.1109/JSEN.2022.3232154	2023
A Semi-Octagonal 40-Bit High Capacity Chipless RFID Tag for Future Product Identification <i>Usman A. Haider Muhammad Noman Aamir Rashid Hatem Rmili Hidayat Ullah Farooq Ahmad Tahir</i> <i>Electronics</i> , Volume 12, Issue 2, Article Number 349 Impact Factor: 2.600 Quartile: 2 Citations: 8 DOI: 10.3390/electronics12020349	2023
A Novel Design Methodology to Realize a Single Byte Chipless RFID Tag by Loading a Square Open-Loop Resonator With Micro-Metallic Cells <i>Muhammad Noman Usman A. Haider Anas M. Hashmi Hidayat Ullah Ali I. Najam Farooq Ahmad Tahir</i> <i>IEEE Journal of Microwaves</i> , Volume 3, Issue 1, Pages 43-51 Impact Factor: 6.900 Quartile: 1 Citations: 13 DOI: 10.1109/JMW.2022.3226878	2023
Realization of Chipless RFID Tags via Systematic Loading of Square Split Ring With Circular Slots <i>Muhammad Noman Usman A. Haider Farooq Ahmad Tahir Hidayat Ullah Anas M. Hashmi</i> <i>IEEE Journal of Radio Frequency Identification</i> , Volume 6, Pages 671-679 Impact Factor: 3.100 (ESCI) Citations: 16 DOI: 10.1109/JRFID.2022.3211301	2022
A Compact Low-Profile Antenna for Millimeter-Wave 5G Mobile Phones <i>Hidayat Ullah Hattan F. Abutarboush Aamir Rashid FAROOQ AHMAD TAHIR</i> <i>Electronics</i> , Volume 11, Issue 19, Article Number 3256 Impact Factor: 2.9 Quartile: 2 Citations: 25 DOI: 10.3390/electronics11193256	2022
A highly compact Fabry Perot cavity-based MIMO antenna with decorrelated fields <i>Muhammad Umair Illahi Muhammad Umar Khan Rifaqat Hussain Farooq Ahmad Tahir</i> <i>Scientific Reports</i> , Volume 12, Issue 1, Article Number: 14021 Impact Factor: 4.996 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1038/s41598-022-18050-w	2022
Design of a Millimeter-Wave MIMO Antenna Array for 5G Communication Terminals <i>Jalal Khan Sadiq Ullah Usman Ali Farooq Ahmad Tahir Ildiko Peter Ladislau Matekovits</i> <i>Sensors</i> , Volume 22, Issue 7, Article Number 2768 Impact Factor: 3.847 Quartile: 2 Citations: 94 DOI: https://doi.org/10.3390/s22072768	2022
A 32-Bit Single Quadrant Angle-Controlled Chipless Tag for Radio Frequency Identification Applications <i>Muhammad Noman Usman A. Haider Hidayat Ullah Farooq Ahmad Tahir Hatem Rmili Ali I. Najam</i> <i>Sensors</i> , Volume 22, Issue 7, Article Number 2492 Impact Factor: 3.847 Quartile: 2 Citations: 8 DOI: https://doi.org/10.3390/s22072492	2022

A Sub-6 GHz MIMO Antenna Array for 5G Wireless Terminals <i>Jalal Khan Sadiq Ullah Farooq Ahmad Tahir Faisal Tubbal Raad Raad</i> <i>Electronics</i> , Volume 10(24), Article Number 3062 Impact Factor: 2.690 Quartile: 3 Citations: 48 DOI: https://doi.org/10.3390/electronics10243062	2021
Monostatic microwave ellipsometry for material characterization <i>Ramiz Izhar Muhammad Amin Omar Siddiqui Farooq Ahmad Tahir</i> <i>Waves in Random and Complex Media</i> , Pages 1-14 Impact Factor: 4.853 Quartile: 1 DOI: https://doi.org/10.1080/17455030.2021.2008047	2021
A Multi-Functional Polarization Transforming Metasurface for C-, X- and K-band Applications <i>Fahad Ahmed Muhammad Ismail Khan Farooq Ahmad Tahir</i> <i>IEEE Antennas and Wireless Propagation Letters</i> , Volume 20, Issue 11, Pages 2186-2190 Impact Factor: 3.834 Quartile: 2 Citations: 59 DOI: 10.1109/LAWP.2021.3065717	2021
Dual-Band Compact Rectenna for UHF and ISM Wireless Power Transfer Systems <i>Abdul Quddious Salman Zahid Marco A. Antoniadis Photos Vryonides Symeon Nikolaou Farooq Ahmad Tahir</i> <i>IEEE Transactions on Antennas and Propagation</i> , Volume 69, Issue 4, Pages 2392-2397 Impact Factor: 4.388 Quartile: 1 Citations: 45 DOI: 10.1109/TAP.2020.3025299	2021
Wave discrimination at C-band frequencies in microstrip structures inspired by electromagnetically induced transparency <i>Abdul Jabbar Rashad Ramzan Omar Siddiqui Muhammad Amin FAROOQ AHMAD TAHIR</i> <i>Scientific Reports</i> , Volume: 11 Issue: 1 Article Number: 2983 Impact Factor: 4.379 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1038/s41598-021-82618-1	2021
A highly efficient low-cost reflective anisotropic metasurface for linear to linearly cross- and circular-polarization conversion <i>Mudassir Murtaza Aamir Rashid Farooq Ahmad Tahir</i> <i>Microwave and Optical Technology Letters</i> , Pages 1-8 Impact Factor: 1.392 Quartile: 4 Citations: 15 DOI: 10.1002/mop.32748	2020
Diamond step-index nanowaveguide to structure light efficiently in near and deep ultraviolet regimes <i>Nasir Mahmood Muhammad Qasim Mehmood Farooq Ahmad Tahir</i> <i>Scientific Reports</i> , Volume 10, Article Number: 18502 Impact Factor: 4.379 Quartile: 1 Citations: 21 DOI: doi.org/10.1038/s41598-020-75718-x	2020
A Highly Bendable Log-Periodic Array Antenna for Flexible Electronics <i>Hattan Abutarboush Omar Siddiqui Muhammad Wali Farooq Ahmad Tahir</i> <i>Progress In Electromagnetics Research M</i> , Volume 96, Pages 99-107 Impact Factor: N/A Citations: 5 DOI: 10.2528/PIERM20071402	2020
Comment on “Wide band metamaterial Absorber for Ku and K band applications” <i>Farooq Ahmad Tahir Saira Rubab Sajeel Zafar</i> <i>Journal of Applied Physics</i> , Volume 128, Issue 3, Article Number 036101 Impact Factor: 2.546 Quartile: 2 Citations: 2 DOI: 10.1063/1.5142539	2020
Co-planar-waveguide fed Circularly Polarized Antenna for Wireless WLAN/LTE Applications <i>Saba Arshad Farooq Ahmad Tahir Aamir Rashid M. M. Saad Missen James A. Flint</i> <i>Electromagnetics</i> , Pages 1-10 Impact Factor: 1.099 Quartile: 4 Citations: 6 DOI: 10.1080/02726343.2020.1780379	2020
A wide-band rhombus monopole antenna array for millimeter wave applications <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>Microwave and Optical Technology Letters</i> , Volume 62, Issue 5, Pages 1841-2117	2020

Impact Factor: 1.392 Quartile: 4 Citations: 18 DOI: 10.1002/mop.32289	
Multiband linear and circular polarization converting anisotropic metasurface for wide incidence angles <i>M Ismail Khan Zobaria Khalid Shujat Ali Khan Tanoli Farooq Ahmad Tahir Bin Hu</i> <i>Journal of Physics D: Applied Physics</i> , Volume 53, Number 9, Article Number 095005 Impact Factor: 2.546 Quartile: 2 Citations: 33 DOI: https://doi.org/10.1088/1361-6463/ab5736	2020
A High Gain and Wideband Narrow-Beam Antenna for 5G Millimeter-Wave Applications <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>IEEE Access</i> , Volume 8, Pages 29430-29434 Impact Factor: 3.367 Quartile: 2 Citations: 69 DOI: 10.1109/ACCESS.2020.2970753	2020
Multifunctional Single Layer Metasurface Based on Hexagonal Split Ring Resonator <i>Muhammad Salman Wahidi M. Ismail Khan Farooq Ahmad Tahir Hatem Rmili</i> <i>IEEE Access</i> , Volume: 8, Pages 28054-28063 Impact Factor: 3.367 Quartile: 2 Citations: 47 DOI: 10.1109/ACCESS.2020.2971557	2020
A novel snowflake fractal antenna for dual-beam applications in 28 GHz Band <i>Hidayat Ullah Farooq AhmadTahir</i> <i>IEEE Access</i> , Volume 8, Pages 9873-19879 Impact Factor: 3.367 Quartile: 2 Citations: 79 DOI: 10.1109/ACCESS.2020.2968619	2020
Broadband planar antenna array for future 5G communication standards <i>Farooq Ahmad Tahir Hidayat Ullah</i> <i>IET Microwaves, Antennas & Propagation</i> , Volume13, Issue15 , Pages 2661-2668 Impact Factor: 1.972 Quartile: 3 Citations: 31 DOI: 10.1049/iet-map.2018.5603	2019
Twisted non-diffracting beams through all dielectric meta-axicon <i>Nasir Mahmood Heonyeong Jeong Inki Kim Muhammad Qasim Mehmood Muhammad Zubair Ali Akbar Murtaza Saleem Muhammad Sabieh Anwar Farooq Ahmad Tahir Junsuk Rho</i> <i>Nanoscale</i> , Vol.11, Issue 43, Pages 20571-20578 Impact Factor: 6.895 Quartile: 1 Citations: 82 DOI: doi: 10.1039/c9nr04888j	2019
Broadband waveplate operation by orthotropic metasurface reflector <i>Meraj-E- Mustafa Farooq Ahmad Tahir Muhammad Amin</i> <i>Journal of Applied Physics</i> , Vol.126, Article Number 18510 Impact Factor: 2.286 Quartile: 2 Citations: 18 DOI: 10.1063/1.5122768	2019
Small-Sized UWB MIMO Antenna With Band Rejection Capability <i>Hassan Tariq Chattha Farooq Ahmad Tahir Farah Latif Muhammad Umer Khan Xiaodong Yang</i> <i>IEEE Access</i> , Volume 7, Pages 121816 - 121824 Impact Factor: 3.745 Quartile: 1 Citations: 37 DOI: 10.1109/ACCESS.2019.2937322	2019
UWB Antenna with Dynamically Reconfigurable Notch-Band using Rectenna and Active Booster <i>Farooq Ahmad Tahir Abdul Quddious Muhammad Ali Babar Abbasi M.A. Antoniadès Photos Vryonides Symeon Nikolaou</i> <i>IET Microwaves, Antennas & Propagation</i> , Volume 13, Issue 12, Pages 2046 – 2052 Impact Factor: 1.972 Quartile: 3 Citations: 31 DOI: 10.1049/iet-map.2018.5603	2019
Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides <i>Nasir Mahmood Inki Kim Muhammad Qasim Mehmood Heonyeong Jeong Ali Akbar Dasol Lee Murtaza Saleem Muhammad Zubair Muhammad Sabieh Anwar Farooq Ahmad Tahir Junsuk Rho</i> <i>Nanoscale</i> , Volume 11, Issue 21, Pages 10555-10555 Impact Factor: 6.895 Quartile: 1 DOI: 10.1039/c9nr90109d	2019

A W-Band EBG-Backed Double-Rhomboid Bowtie-Slot On-Chip Antenna <i>Muhammad Saad Khan Farooq Ahmad Tahir Hammad M. Cheema Azat Meredov Atif Shamim</i> <i>IEEE Antennas and Wireless Propagation Letters</i> , Volume 18, Issue 5, Pages 1046-1050 Impact Factor: 3.726 Quartile: 1 Citations: 33 DOI: 10.1109/LAWP.2019.2908891	2019
Linear and circular-polarization conversion in X-band using anisotropic metasurface <i>Farooq Ahmad Tahir M. Ismail Khan Zobaria Khalid</i> <i>Scientific Reports</i> , Vol. 9, Article Number: 4552 Impact Factor: 3.998 Quartile: 1 Citations: 164 DOI: 10.1038/s41598-019-40793-2	2019
A broadband wire hexagon antenna array for future 5G communications in 28 GHz band <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>Microwave and Optical Technology Letters</i> , Volume 61, Issue 3, Pages 696-701 Impact Factor: 0.957 Quartile: 4 Citations: 43 DOI: 10.1002/mop.31613	2019
A 2-element Meandered-line Slot-based Frequency Reconfigurable MIMO Antenna System <i>Ali Raza Muhammad Umer Khan Farooq Ahmad Tahir Rifaqat Hussain Mohammad S. Sharawi</i> <i>Microwave and Optical Technology Letters</i> , Volume 60, Issue 11, Pages 2794-2801 Impact Factor: 0.933 Quartile: 4 Citations: 15 DOI: https://onlinelibrary.wiley.com/doi/full/10.1002/mop.31459	2018
Quasi-Crystal Metasurface for Simultaneous Half-and Quarter-Wave Plate Operation <i>Meraj-E-Mustafa Muhammad Amin Omar Siddiqui Farooq Ahmad Tahir</i> <i>Scientific Reports</i> , Volume 8, Article Number 15743 Impact Factor: 4.011 Quartile: 1 Citations: 36 DOI: 10.1038/s41598-018-34142-y	2018
Comment on “An ultrathin and broadband metamaterial absorber using multi-layer structures” <i>Farooq Ahmad Tahir Meraj-E- Mustafa M. Amin O. Siddiqui</i> <i>Journal of Applied Physics</i> , Volume 124, Issue 14, Article Number 146101 Impact Factor: 2.328 Quartile: 2 Citations: 11 DOI: 10.1063/1.5046894	2018
Comment on “A novel ultrathin and broadband microwave metamaterial absorber” [J. Appl. Phys. 116, 094504 (2014)] <i>Farooq Ahmad Tahir Meraj-E- Mustafa M. Amin O. Siddiqui</i> <i>Journal of Applied Physics</i> , Volume 124, Issue 14 Impact Factor: 2.328 Quartile: 2 Citations: 11 DOI: 10.1063/1.5046894	2018
An hp-shape hexa-band antenna for multi-standard wireless communication systems <i>Sadiq Ullah Shaheen Ahmad Burhan A. Khan Farooq Ahmad Tahir James A. Flint</i> <i>Wireless Networks</i> , NULL Impact Factor: 2.405 Quartile: 2 Citations: 14 DOI: 10.1007/s11276-018-1760-x	2018
A Novel Dual Ultrawideband CPW-Fed Printed Antenna for IoT Applications <i>Qasim Awais Hassan Tariq Chattha Mohsin Jamil Yang Jin Farooq Ahmad Tahir Masood Ur Rehman</i> <i>Wireless Communications and Mobile Computing</i> , NULL Impact Factor: 1.396 Quartile: 3 Citations: 35 DOI: 10.1155/2018/2179571	2018
Design and Analysis of a Hexa-Band Frequency Reconfigurable Monopole Antenna <i>S. Ullah S. Ahmad B. A. Khan U. Ali Farooq Ahmad Tahir S. Bashir</i> <i>IETE Journal of Research</i> , Volume 64, Issue 1, Pages 59-66 Impact Factor: 0.793 Quartile: 4 Citations: 20 DOI: http://dx.doi.org/10.1080/03772063.2017.1347072	2018
A broadband cross-polarization conversion anisotropic metasurface based on multiple plasmon resonances <i>Muhammad Ismail Khan Farooq Ahmad Tahir</i> <i>Chinese Physics B</i> , Volume 27, Number 1, Article Number 014101	2018

Impact Factor: 1.469 Quartile: 3 Citations: 61 DOI: 10.1088/1674-1056/27/1/014101	
Simultaneous quarter-wave plate and half-mirror operation through a highly flexible single layer anisotropic metasurface <i>Muhammad Ismail Khan Farooq Ahmad Tahir</i> <i>Scientific Reports</i> , NULL Impact Factor: 4.122 Quartile: 1 Citations: 48 DOI: 10.1038/s41598-017-15279-8	2017
Design, fabrication and measurement of triple band frequency reconfigurable antennas for portable wireless communications <i>Sadiq Ullah Shahzeb Hayat Anees Umar Usman Ali Farooq Ahmad Tahir James A. Flint</i> <i>International Journal of Electronics and Communications (AEÜ)</i> , Volume 81, Pages 236-242 Impact Factor: 2.115 Quartile: 2 Citations: 81 DOI: 10.1016/j.aeue.2017.07.028	2017
A Frequency Reconfigurable MIMO Antenna System for Cognitive Radio Applications <i>Ali Raza Farooq Ahmad Tahir Muhammad Umer Khan</i> <i>Frequenz</i> , Volume 71, Issue 11-12, Pages 567–573 Impact Factor: 0.280 Quartile: 4 Citations: 10 DOI: 10.1515/freq-2016-0185	2017
A compact half and quarter-wave plate based on bi-layer anisotropic metasurface <i>Muhammad Ismail Khan Farooq Ahmad Tahir</i> <i>Journal of Physics D-Applied Physics</i> , NULL Impact Factor: 2.373 Quartile: 2 Citations: 46 DOI: 10.1088/1361-6463/aa86d6	2017
A novel FSS for gain enhancement of printed antennas in UWB frequency spectrum <i>Farooq Ahmad Tahir Talha Arshad Sadiq Ullah James A. Flint</i> <i>Microwave and Optical Technology Letters</i> , Volume 59, Issue 10, Pages 2698-2704 Impact Factor: 0.948 Quartile: 4 Citations: 74 DOI: 10.1002/mop.30789	2017
A miniaturized triple band-notched UWB antenna <i>Arshad Talha Farooq Ahmad Tahir</i> <i>Microwave and Optical Technology Letters</i> , Volume 59, Issue 10, Pages 2581-2586 Impact Factor: 0.948 Quartile: 4 Citations: 16 DOI: 10.1002/mop.30787	2017
An angularly stable dual-broadband anisotropic cross polarization conversion metasurface <i>Muhammad Ismail Khan Farooq Ahmad Tahir</i> <i>Journal of Applied Physics</i> , Volume 122, Issue 5, Article No.053103 Impact Factor: 2.176 Quartile: 2 DOI: http://doi.org/10.1063/1.4997456	2017
An Ultra-wide Band Diversity Antenna with Band-rejection Capability for Imaging Applications <i>Farah Latif Farooq Ahmad Tahir Mohammad S. Sharawi Muhammad Umer Khan</i> <i>Microwave and Optical Technology Letters</i> , Volume: 59, Issue: 7, Pages 1661-1668 Impact Factor: 0.948 Quartile: 4 Citations: 11 DOI: https://doi.org/10.1002/mop.30603	2017
An Interdigital FSS based Dual Channel UWB-MIMO Antenna Array for System-in-Package Applications <i>Muhammad Bilal Kashif Khalil Rashid Saleem Farooq Ahmad Tahir Muhammad Farhan Shafique</i> <i>Applied Computational Electromagnetics Society Journal</i> , Volume 32, No.3, Pages 203-208 Impact Factor: 0.590 Quartile: 4 DOI: NA	2017
Design and analysis of a novel tri-band flower-shaped planar antenna for GPS and WiMAX applications <i>Sadiq Ullah Farooq Faisal Ashfaq Ahmad Usman Ali Farooq Ahmad Tahir James A. Flint</i> <i>Journal of Electromagnetic Waves and Applications</i> , Volume 31, Issue 9, Pages 927-940 Impact Factor: 0.864 Quartile: 4 Citations: 42 DOI: http://dx.doi.org/10.1080/09205071.2017.1330160	2017
A high-gain inkjet-printed UWB LPDA antenna on paper substrate	2017

Syed Muhammad Hamza Farooq Ahmad Tahir Hammad Mahmood Cheema
International Journal of Microwave and Wireless Technologies, Volume: 9, Issue: 4, Pages: 931-937
Impact Factor: 0.745 | **Quartile:** 4 | **Citations:** 7
DOI: DOI:http://dx.doi.org/10.1017/S1759078716000829

Ultra-Wideband Cross Polarization Conversion Metasurface Insensitive to Incidence Angle 2017

Muhammad Ismail Khan Qaisar Fraz Farooq Ahmad Tahir
Journal of Applied Physics, Volume 121, Issue 4, Article number 045103
Impact Factor: 2.176 | **Quartile:** 2 | **Citations:** 197
DOI: 10.1063/1.4974849

Disposable, Paper-Based, Inkjet-Printed Humidity and H2S Gas Sensor for Passive Sensing Applications 2016

Abdul Quddious Shuai Yang Munawar M. Khan Farooq Ahmad Tahir Atif Shamim Khaled N. Salama Hammad Mahmood Cheema
Sensors, Volume 16(12), Article Number 2073
Impact Factor: 2.677 | **Quartile:** 1 | **Citations:** 59
DOI: doi:10.3390/s16122073

A Compact Uniplanar Antenna for Nine-Band LTEWWAN Operation in Tablet Computers 2016

Aqsa Ahmad Farooq Ahmad Tahir Dr. Hammad Mahmood Cheema
International Journal of RF and Microwave Computer-Aided Engineering, Volume 26, Issue 6, Pages 496–502
Impact Factor: 0.746 | **Quartile:** 4 | **Citations:** 5
DOI: 10.1002/mmce.20995

A novel single-layer frequency selective surface for gain enhancement of SWB antennas 2016

Farooq Ahmad Tahir
Microwave and Optical Technology Letters, Volume 52, No.8, Pages 2030-2035
Impact Factor: 0.731 | **Quartile:** 4
DOI: DOI:10.1002/mop.29966

3.56 bits/cm² Compact Inkjet Printed and Application Specific Chipless RFID Tag 2016

Munawar Masood Khan Farooq Ahmad Tahir M. F. Farooqui Atif Shamim Hammad Mahmood Cheema
IEEE Antennas and Wireless Propagation Letters, Volume 15, Pages 1109-1112
Impact Factor: 2.533 | **Quartile:** 2 | **Citations:** 94
DOI: DOI:10.1109/LAWP.2015.2494864

A Compact Hut-Shaped Printed Antenna for Super-wideband Applications 2015

Farooq Ahmad Tahir Aqeel H. Naqvi
Microwave and Optical Technology Letters, Volume 57, Issue 11, Pages 2645-2649
Impact Factor: 0.545 | **Quartile:** 4 | **Citations:** 14
DOI: 10.1002/mop.29413

A Frequency reconfigurable antenna for handheld wireless devices 2015

Benazeer Bhellar Farooq Ahmad Tahir
IET Microwaves, Antennas & Propagation, Volume 9, Issue 13, Page 1412-1417
Impact Factor: 0.817 | **Quartile:** 3 | **Citations:** 14
DOI: 10.1049/iet-map.2015.0199

A Compact Dual-band Frequency-reconfigurable Textile Antenna for Wearable Applications 2015

Farooq Ahmad Tahir Ambreen Javed
Microwave and Optical Technology Letters, Volume 57, Issue 10, Pages 2251–2257
Impact Factor: 0.545 | **Quartile:** 4 | **Citations:** 40
DOI: 10.1002/mop.29311

A Beam-Steerable Micro Strip Reflectarray Antenna using Variable Length Slot Technique 2015

Intikhab Hussain Fida Hussain Memon Farooq Ahmad Tahir
Mehran University Research Journal of Engineering & Technology, Volume 29, Issue 4, Pages 87-92
Impact Factor: 0
DOI: -

A Compact Kapton-based Inkjet Printed Multiband Antenna for Flexible Wireless Devices 2015

Sana Ahmed Farooq Ahmad Tahir A. Shamim Hammad Mahmood Cheema
IEEE Antennas and Wireless Propagation Letters, Volume 14, Pages 1802-1805
Impact Factor: 1.751 | **Quartile:** 2 | **Citations:** 158
DOI: 10.1109/LAWP.2015.2424681

High-power broadband-loaded monopole antenna with sleeve ground plane for portable applications <i>Waqas Mazhar Farooq Ahmad Tahir Farooq Ahmed Bhatti</i> <i>Journal of Electromagnetic Waves and Applications</i> , Volume 28, No. 7, Pages 802-814 Impact Factor: 0.726 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1080/09205071.2014.891952	2014
A Low Profile Cross Strip 3D Monocone Antenna for UWB Applications <i>Waqas Mazhar Munir A. Tarar Farooq Ahmad Tahir Wajid Gulistan</i> <i>Progress In Electromagnetics Research C</i> , Volume 46, Pages 51-61 Impact Factor: N/A Citations: 2 DOI: doi:10.2528/PIERC13102403	2014
Electromagnetic Modeling of Microstrip Reflectarrays using Scale Changing Technique <i>Farooq Ahmad Tahir Hervé Aubert</i> <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , Volume 26, Issue 3, Pages 205-224 Impact Factor: 0.629 Quartile: 4 Citations: 1 DOI: 10.1002/jnm.1854	2013
Multi-Scale Approach for the Electromagnetic Simulation of Finite Size and Thick Frequency Selective Surfaces <i>Euloge Budet Tchikaya Fadi Khalil Farooq Ahmad Tahir Herve Aubert</i> <i>Progress in Electromagnetics Research M</i> , Volume 17, Pages 43-57 Impact Factor: N/A Citations: 7 DOI: doi:10.2528/PIERM11011401	2011
Equivalent Electrical Circuit for Designing MEMS-Controlled Reflectarray Phase Shifters <i>Farooq Ahmad Tahir Herve Aubert Etienne Girard</i> <i>Progress In Electromagnetics Research</i> , Volume 100, Pages 1-12 Impact Factor: 3.745 Quartile: 1 Citations: 33 DOI: doi:10.2528/PIER09112506	2010

Conference Proceedings

A Multi-band Polarization Insensitive Metasurface Based Microwave Absorber Using Square and Circular Loop with Lumped Elements <i>Bilqees Sitara Aamir Rashid Farooq Ahmad Tahir</i> <i>2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678249	2021
Angularly Stable Metasurface Design for Polarization Conversion Applications at C-band <i>Sajeel Zafar Saira Rubab Farooq Ahmad Tahir</i> <i>2021 1st International Conference on Microwave, Antennas and Circuits, ICMAC 2021</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678284	2021
A 26 Bit Alternating U-shaped Chipless RFID Tag Using Slot Length Variation Technique <i>Sidrah Jabeen Hidayat Ullah Farooq Ahmad Tahir</i> <i>2021 1st International Conference on Microwave, Antennas and Circuits, ICMAC 2021</i> , res.country(177,) Citations: 4 DOI: 10.1109/ICMAC54080.2021.9678309	2021
A Miniaturized Cavity backed Archemedian Spiral Antenna for mm-Wave Applications <i>M. Saad Khan Farooq Ahmad Tahir Muhammad Umer Khan Hammad M. Cheema Atif Shamim</i> <i>2021 International Applied Computational Electromagnetics Society Symposium (ACES)</i> , res.country(38,) Citations: N/A DOI: 10.1109/ACES53325.2021.00183	2021
A New Sampling Approach for Beam Shaping Through Superposition of Taylor Distributed Composing Functions <i>Awab Muhammad Muhammad Umer Khan Rifaqat Hussain Farooq Ahmad Tahir</i> <i>International Conference on UK-China Emerging Technologies (UCET)</i> , res.country(231,) Citations: N/A DOI: https://www.gla.ac.uk/events/conferences/ucet/conferenceprogram/	2020

Linear to Circular Asymmetric Transmission based on Chiral Metasurface <i>Urooj Qamar Atika Faryal Farooq Ahmad Tahir</i> <i>International Conference on UK-China Emerging Technologies (UCET)</i> , res.country(231,) Citations: N/A DOI: DOI: 10.1109/UCET51115.2020.9205415	2020
An Asymmetric Semi-circular Meandered Line Monopole Antenna for 28 GHz 5G Communications <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>2020 International Conference on UK-China Emerging Technologies (UCET)</i> , res.country(231,) Citations: N/A DOI: DOI: 10.1109/UCET51115.2020.9205370	2020
A Miniaturized Printed UWB LPDA Antenna <i>Syed M. Hamza Hidayat Ullah Farooq Ahmad Tahir</i> <i>International Conference on UK-China Emerging Technologies (UCET)</i> , res.country(231,) Citations: N/A DOI: 10.1109/UCET51115.2020.9205322	2020
A Compact L-Shaped 16 Bit Polarization Independent Chipless RFID Tag <i>Usman A. Haider M. Noman Hidayat Ullah Farooq Ahmad Tahir</i> <i>International Conference on UK-China Emerging Technologies (UCET)</i> , res.country(231,) Citations: N/A DOI: DOI: 10.1109/UCET51115.2020.9205384	2020
Tri-Cell Hexagonal Wire Antenna for 5G Applications at 28 GHz Band <i>Hidayat Ullah FAROOQ AHMAD TAHIR</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
Single Module UHF & ISM Rectennas for MIMO Energy Harvesting or SWIPT Systems <i>Salman Zahid Farooq Ahmad Tahir Abdul Quddious Photos Vryonides Symeon Nikolaou</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
A Compact Chip-less RFID Tag for IoT Applications <i>Usman A. Haider M. Noman Hidayat Ullah Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
A 12-bit Hexagonal Chip-less Tag for Radio Frequency Identification Applications <i>Sajeel Zafa Saira Rubab Hidayat Ullah Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
A Rotman Lens Inspired Antenna for Unlicensed 60 GHz Millimeter-Wave Communications <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
A High Gain and Wideband CPW-Fed Antenna for Millimeter-Wave Applications <i>Hidayat Ullah Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting</i> , res.country(38,) Citations: N/A DOI: https://2020apsursi.org/	2020
An Efficient Anisotropic Metasurface for Linear and Circular-Polarization Conversion Applications <i>Afzal Ahmed Hattan F Abutarboush Farooq Ahmad Tahir</i> <i>IEEE European Conference on Antennas and Propagation</i> , res.country(59,) Citations: N/A DOI: DOI: 10.23919/EuCAP48036.2020.9135527	2020

A Multiband Cross- and Circular Polarizer <i>Fahad Ahmed Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation</i> , res.country(48,) Citations: N/A DOI: INSPEC Accession Number: 19296427	2019
Metasurface-based Polarization Insensitive Absorber for C, X, Ku and K bands Applications <i>Syed Wahab Zarin Afzal Ahmed Farooq Ahmad Tahir</i> <i>IEEE International Symposium on Antennas and Propagation</i> , res.country(48,) Citations: N/A DOI: INSPEC Accession Number: 19296419	2019
Metasurface Design for Cross-polarization Conversion and Absorption Applications <i>farooq ahmad tahir Afzal Ahmed Fahad Ahmed</i> <i>2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting</i> , res.country(233,) Citations: N/A DOI: https://www.2019apsursi.org/Papers/ViewPapers_MS.asp?PaperNum=1927	2019
An Ultrathin Flexible Metasurface for Half Mirror and QWP Operation <i>farooq ahmad tahir Fahad Ahmed Afzal Ahmed Hassan Tariq Chattha</i> <i>2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting</i> , res.country(233,) Citations: N/A DOI: https://2019apsursi.org/Papers/ViewPapers.asp?PaperNum=2686	2019
An Angularly Stable Broadband Cross-Polarization Conversion Metasurface <i>farooq ahmad tahir Mudassir Murtaza Aamir Rashid Tariq Ullah Syed Azhar Ali Zaidi</i> <i>13th European Conference on Antennas and Propagation (EuCAP 2019)</i> , res.country(178,) Citations: N/A DOI: https://ieeexplore.ieee.org/document/8740103	2019
Dual-Band Compact Antenna for UHF and ISM Systems <i>farooq ahmad tahir Salman Zahid Abdul Quddious Photos Vryonides Marco Antoniadis Symeon Nikolaou</i> <i>2019 13th European Conference on Antennas and Propagation (EuCAP)</i> , res.country(178,) Citations: N/A DOI: https://ieeexplore.ieee.org/document/8740328	2019
A Broadband Metasurface for Cross Polarization Conversion Applications <i>farooq ahmad tahir Meraj-E-Mustafa</i> <i>2019 13th European Conference on Antennas and Propagation (EuCAP)</i> , res.country(178,) Citations: N/A DOI: https://ieeexplore.ieee.org/document/8740314	2019
A Broadband Linearly Polarized Beam-splitter <i>farooq ahmad tahir M. S. Wahidi Meraj-E-Mustafa Ramiz Izhar</i> <i>2019 13th European Conference on Antennas and Propagation (EuCAP)</i> , res.country(178,) Citations: N/A DOI: https://ieeexplore.ieee.org/document/8739956	2019
An Anisotropic Dual-Broadband Reflective Polarization Converter Metasurface <i>farooq ahmad tahir Ramiz Izhar Meraj-E-Mustafa M. S. Wahidi</i> <i>2019 IEEE International Conference on Computational Electromagnetics (ICCEM)</i> , res.country(48,) Citations: N/A DOI: 10.1109/COMPEN.2019.8779072	2019
A Broadband Polarization Rotator Metasurface <i>farooq ahmad tahir Meraj-E-Mustafa Ramiz Izhar M. S. Wahidi Qammer H. Abbasi</i> <i>2019 IEEE International Conference on Computational Electromagnetics (ICCEM)</i> , res.country(48,) Citations: N/A DOI: 10.1109/COMPEN.2019.8778944	2019
Manipulating Twisted Light Beam Through all-dielectric Metasurface <i>farooq ahmad tahir Nasir Mahmood Muhammad Qasim Mehmood Inki Kim Junsuk Rho</i> <i>SPIE OPTO 2019 (OPTO 2019)</i> , res.country(233,) Citations: N/A DOI: 10.1117/12.2508545	2019

A Lumped Element Analog of Dual-Stub Microwave Electromagnetically Induced Transparency Resonator <i>Abdul Jabbar Muhammad Amin Rashad Ramzan Omar Siddiqui Farooq Ahmad Tahir</i> <i>2018 18th Mediterranean Microwave Symposium (MMS), res.country(224,)</i> Citations: N/A DOI: 10.1109/MMS.2018.8611891	2018
A Broadband Linear-to-Circular Polarization Conversion Anisotropic Metasurface <i>Farooq Ahmad Tahir Meraj-E-Mustafa M. S. Wahidi</i> <i>2018 18th Mediterranean Microwave Symposium (MMS), res.country(224,)</i> Citations: N/A DOI: 10.1109/MMS.2018.8612047	2018
Light Manipulation at Compact Scale via all-Dielectric Metasurfaces <i>Nasir Mahmood Inki Kim Heongyeong Jeong Farooq Ahmad Tahir Muhammad Qasim Mehmood Junsuk Rho</i> <i>12th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials), res.country(70,)</i> Citations: N/A DOI: 10.1109/MetaMaterials.2018.8534155	2018
An Invariant Dual-beam Snowflake Antenna for Future 5G Communications <i>Hidayat Ullah Dr. Farooq Ahmad Tahir Hassan Tariq Chattha Qammer H. Abbasi</i> <i>18th International Symposium on Antenna Technology and Applied Electromagnetic, res.country(38,)</i> Citations: N/A DOI: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8572926	2018
Compact Polarization Diversity Antenna for 28-38 GHz Bands <i>Syed S. Haider Dr. Farooq Ahmad Tahir Hassan Tariq Chattha</i> <i>International Symposium on Antenna Technology and Applied Electromagnetics, res.country(38,)</i> Citations: N/A DOI: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8572938&tag=1	2018
A Wearable Radiometric Antenna for Non-Invasive Brain Temperature Monitoring <i>Hidayat Ullah Dr. Farooq Ahmad Tahir Dr. Hammad Mehmood Cheema</i> <i>Proceedings of 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), res.country(38,)</i> Citations: N/A	2018
A Compact Uniplanar Tri-band Antenna for Wearable Smart Watches <i>Dr. Hammad Mehmood Cheema Ahmed Shafqat Dr. Farooq Ahmad Tahir</i> <i>Proceedings of 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), res.country(38,)</i> Citations: N/A DOI: https://www.researchgate.net/publication/330026314_A_Compact_Uniplanar_Tri-band_Antenna_for_Wearable_Smart_Watches	2018
A Broadband SIW Antenna for 5G Applications <i>Muhammad R. Wali Farooq A. Tahir Muhammad U. Khan R. Hussain</i> <i>2018 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, res.country(233,)</i> Citations: N/A DOI: 10.1109/APUSNCURSINRSM.2018.8608665	2018
Micron-scale light structuring via flat Nanodevices <i>Nasir Mahmood Dr. Muhammad Qasim Mehmood Inki Kim Heongyeong Jeong FAROOQ AHMAD TAHIR Junsuk Rho</i> <i>SPIE Photonics Europe Conference 2018, res.country(75,)</i> Citations: N/A DOI: 10.1117/12.2314411	2018
An Angularly Stable Tri-Band Reflective Cross-Polarization Conversion Anisotropic Metasurface, <i>M. Ismail Khan Farooq A. Tahir Rashid Saleem</i> <i>Progress in Electromagnetic Research Symposium held from 19-22 Nov 2017 in Singapore, res.country(197,)</i> Citations: N/A DOI: 10.1109/PIERS-FALL.2017.8293416	2017
Radiation characteristics of Side Fed Bifilar Helix Antenna for L-Band LEO satellites and terrestrial mobile communications <i>Muhammad Ahmad Taimoor Zahid Taimoor Naeem Muhammad Amin Farooq Ahmad Tahir</i> <i>2016 10th European Conference on Antennas and Propagation (EuCAP), res.country(43,)</i> Citations: N/A	2016

Editorial Activities

Journal of Applied Physics Reviewed Papers for Journals Impact Factor: 2.877	2022
IEEE Antennas and Wireless Propagation Letters Reviewed Papers for Journals Impact Factor: 3.726	2022
IEEE Antennas and Wireless Propagation Letters Reviewed Papers for Journals Impact Factor: 3.726	2022
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: NA	2021
Reviewed Papers for Journals Impact Factor: 2.047	2021
Reviewed Papers for Journals Impact Factor: 1.392	2021
Reviewed Papers for Journals	2020

Impact Factor: 3.834	
Reviewed Papers for Journals	2020
Impact Factor: 1.392	
Editor in Chief of Journal	2020
Impact Factor: 1.2	
Reviewed Papers for Journals	2018
Impact Factor: -	
Reviewed Papers for Journals	2018
Impact Factor: 4.011	
Reviewed Papers for Journals	2018
Impact Factor: 1.472	

Intellectual Property

Copyrights

Patents

A Product of High-Capacity Double Sided Square Mesh Chipless Radio Frequency Identification (RFID) Tag	2022
Status: Filed	
A Product of Fully Independent and Passive 10-Digit Numeric Chip less Radio Frequency Identification (CRFID) based Numeric Keypad	2022
Status: Filed	
Design and Development of Compact Dual Polarized Antenna Array for 28/38 GHz 5G Bands	2021
Status: Filed	
Low profile High Gain Antenna using Near Field Phase Correction by Reflecting Metasurface	2021
Status: Filed	
Broadband Archimedean Spiral Monopole Antenna Array for Millimeter-wave 5G Mobile Handsets	2020
Status: Filed	
Monochromatic Sensing Through Polarization State Control in Metasurface	2019
Status: Filed	

Industrial Designs

Trademarks