

Noshervan Shoaib

Professor

School of Electrical Engineering and Computer Science

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About

Dr. Noshervan Shoaib is working as Professor in the School of Electrical Engineering and Computer Science. Dr. Noshervan Shoaib has a PhD in RF Metrology. Dr. Noshervan Shoaib has published 117 research articles & conference papers having a citation count of 917, carried out 19 projects and filed 15 intellectual property.

Qualifications

PhD in RF Metrology Polytechnic Institute of Turin , Italy	2012 - 2015
MS in Electronic Engineering Polytechnic Institute of Turin , Italy	2009 - 2011
BS in Communication Systems Engineering Institute of Space Technology , Pakistan	2004 - 2008

Experience

Professor School of Electrical Engineering and Computer Science	2025- Present
Associate Professor School of Electrical Engineering and Computer Science	2022 - 2022
Associate Professor Research Institute For Microwave And Millimeter-Wave Studies	2020 - 2022
Assistant Professor Research Institute For Microwave And Millimeter-Wave Studies	2016 - 2020
Postdoc Researcher The Petroleum Institute (PI), University & Research Center, UAE , Umm Al Nar, Near Al Maqta Bridge - Abu Dhabi - United Arab Emirates	2015 - 2016
Postdoc Researcher National Institute of Metrological Research- INRIM, Italy , Strada delle Cacce 91, Torino, Italy	2015 - 2015
Lecturer HITEC University, Taxila , HITEC University, Cantt, Taxila, Rawalpindi, Punjab 47080	2011 - 2012
Lab- Engineer HITEC University, Taxila , HITEC University, Cantt, Taxila, Rawalpindi, Punjab 47080	2008 - 2009

Awards

School / College Best Researcher Awards-2021	2022
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Professional Memberships

PEC

Research Projects

National Projects

Autizen Funding Agency: IGNITE	2025
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Amount: PKR 88,782.00	
Status: Completed	
Elderly People Fall Detection System Using mm-Wave Radar Technology	2025
Funding Agency: N/A	
Amount: PKR 60,050.00	
Status: Completed	
Development of GNSS System for Repeat, Record/Replay and Simulation	2024
Funding Agency: Project Management Organization (PMO)	
Amount: PKR 7,484,400.00	
Status: Approved_inprocess	
Posture recognition and Fall detection via mmWave Radar	2023
Funding Agency: IGNITE	
Amount: PKR 86,000.00	
Status: Completed	
In-Cabin Child Protection via Machine Learning (ML) based Radar Technology	2023
Funding Agency: IGNITE	
Amount: PKR 77,000.00	
Status: Completed	
Collision Avoidance & Warning System via mm-Wave Radar to Ensure Safe Driving of Commercial Vehicles on Pakistani Motorways	2023
Funding Agency: IGNITE	
Amount: PKR 77,000.00	
Status: Completed	
Empowering Villagers in Pakistan via Green Energy	2023
Funding Agency: IEEE	
Amount: PKR 2,993,802.00	
Status: Completed	
Deep Learning Based Suggestive Mechanism for Aquaponics	2022
Funding Agency: IGNITE	
Amount: PKR 63,990.00	
Status: Completed	
Design and Development of IoT Network for Smart Aquaponics	2022
Funding Agency: IGNITE	
Amount: PKR 79,950.00	
Status: Completed	
Breast Cancer Detection via Microwave Imaging	2022
Funding Agency: IGNITE	
Amount: PKR 74,408.00	
Status: Completed	
Elderly People Fall Detection System Using Radar Technology - Pakistan	2023
Funding Agency: EPICS in IEEE	
Amount: PKR 1,500,000.00	
Status: Completed	
Commercial Scale Development of Indigenous Transmit-Receive Modules for Airborne Radars	2021
Funding Agency: HEC	
Amount: PKR 13,771,000.00	
Status: Completed	
Cropotronics	2019
Funding Agency: IGNITE	
Amount: PKR 71,360.00	
Status: Completed	
X-Band RF Frontends for Airborne AESE Radar	2019
Funding Agency: HEC	
Amount: PKR 15,375,000.00	
Status: Completed	

Design and Fabrication of 5G MIMO Antenna for Mobile Communication	2017
Funding Agency: HEC	
Amount: PKR 500,000.00	
Status: Completed	
RF Analysis and Development of Wideband Omni-directional Bi-Conical Antenna	2021
Funding Agency: PAF	
Amount: PKR 1,500,000.00	
Status: Completed	
An Automated Machine Learning Based Solar Powered Aquaponics System	2019
Funding Agency: HEC	
Amount: PKR 9,946,000.00	
Status: Completed	
RF Energy Harvesting for Internet of Things (IoT) Applications	2019
Funding Agency: HEC	
Amount: PKR 14,800,000.00	
Status: Completed	
Design and Fabrication of 5G MIMO Antenna for Mobile Communication	2017
Funding Agency: HEC	
Amount: PKR 500,000.00	
Status: Completed	

International Projects

Research Articles

Four-Element Meandered Sunflower MIMO Antenna for Ultra-Wideband Systems	2025
<i>Ijaz Ahmad Yuhuai Liu Fang Wang Mian Muhamad Kamal Parveez Sharif B. G. Noshewan Shoaib Hala Mostafa Mariana Dalarsson</i>	
<i>International Journal of Antennas and Propagation</i> , Volume:2025, Issue:1, Article ID 6469877, 14 pages	
Impact Factor: 1.100 Quartile: 4	
DOI: https://doi.org/10.1155/ijap/6469877	
Polarization Reconfigurable, Single-Layer, 2-D, Monopulse Array Antenna With Compact Comparator Circuit	2025
<i>Noman Ahmad Muhammad Waseem Noshewan Shoaib Haq Nawaz Sultan Shoaib Khaled A. Aljaloud Rifaqat Hussain Symeon Nikolaou</i>	
<i>IEEE Access</i> , Volume:13, Page(s): 48359-48366	
Impact Factor: 3.4 Quartile: 2	
DOI: 10.1109/ACCESS.2025.3549971	
Polyaniline/Ta2C MXene nanocomposites for electromagnetic noise reduction	2025
<i>Madiha Liaquat Aqsa Arshad Farooq Ahmad Tahir Noshewan Shoaib S. Rahman</i>	
<i>Results in Engineering</i> , Volume 25, Article Number 103542	
Impact Factor: 6.000 Quartile: 1 Citations: 6	
DOI: https://doi.org/10.1016/j.rineng.2024.103542	
Advanced Techniques for Designing Wideband and Highly Selective Bandpass Filters Through Cascaded Modules	2025
<i>Adnan Nadeem Noshewan Shoaib Antonis Papadakis Symeon Nikolaou Dimitra Psychogiou Photos Vryonides</i>	
<i>IEEE Access</i> , Volume:13, Page(s):34936-34945	
Impact Factor: 3.4 Quartile: 2	
DOI: 10.1109/ACCESS.2025.3543597	
Self-Decoupled Quad-Port CPW-Fed Fractal MIMO Antenna With UWB Characteristics	2024
<i>Mian Muhammad Kamal Binghao Wang Noshewan Shoaib Umair Rafique Muhammad Inam Abbasi Muhammad Ramlee Kamarudin</i>	
<i>International Journal of Antennas and Propagation</i> , Volume 2024, Article ID 3826899, 14 pages	
Impact Factor: 1.200 Quartile: 4 Citations: 12	
DOI: https://doi.org/10.1155/ijap/3826899	
An Eight Element Wideband DGS MIMO Antenna System for 5G Handheld Devices	2024
<i>Mujeeb Abdullah Saad Hassan Kiani Noshewan Shoaib Tanweer Ali Hela Elmannai Abeer D. Algarni Umar Farooq</i>	
<i>IEEE Access</i> , Volume 12, Pages 141476-141488	
Impact Factor: 3.400 Quartile: 2 Citations: 7	
DOI: 10.1109/ACCESS.2024.3467060	

A wideband bianisotropic FSS absorber with angular stable and polarization-insensitive properties <i>Fahad Ahmed Afzal Ahmed Nouredine Melouki Peyman PourMohammadi Hassan Naseri Gheisanab Noshervan Shoaib Tayeb A. Denidni</i> <i>Waves in Random and Complex Media</i>, Pages 1-16 Impact Factor: N/A DOI: https://doi.org/10.1080/17455030.2024.2382151	2024
A High Gain Array Based Millimeter Wave MIMO Antenna With Improved Isolation and Decorrelated Fields <i>Daniyal Ali Sehrai Mehr E. Munir Saad Hassan Kiani Noshervan Shoaib Abeer D. Algarni Hela Elmannai Moustafa M. Nasralla Tanweer Ali</i> <i>IEEE Access</i>, Volume 12, Pages 89794-89803 Impact Factor: 3.400 Quartile: 2 Citations: 18 DOI: 10.1109/ACCESS.2024.3418843	2024
Reconfigurable absorptive and polarization conversion metasurface consistent for wide angles of incidence <i>Ahsaan Gul Hassan Muhammad Sumaid Fahad Ahmed Noshervan Shoaib Qammer H. Abbasi Symeon Nikolaou</i> <i>Scientific Reports</i>, Volume 13, Issue 1, Article Number 18209 Impact Factor: 4.6 Quartile: 2 Citations: 22 DOI: https://doi.org/10.1038/s41598-023-45351-5	2023
A Wideband RF Power Divider With Ultra-Wide Harmonics Suppression <i>Sikandar Abbas Moazam Maqsood Noshervan Shoaib Muhammad Qasim Mehmood Muhammad Zubair Yehia Massoud</i> <i>IEEE Journal of Microwaves</i>, Volume 3, Issue 4, Pages 1248-1257 Impact Factor: 6.900 Quartile: 1 Citations: 5 DOI: 10.1109/JMW.2023.3307654	2023
Ambiguity Resolution in Amplitude Comparison-Based Monopulse Direction Finding Antenna Systems <i>Noman Ahmad Haq Nawaz Noshervan Shoaib Qammer Hussain Abbasi Symeon Nikolaou</i> <i>IEEE Antennas and Wireless Propagation Letters</i>, Volume 22, Issue 10, Pages 2605-2609 Impact Factor: 4.2 Quartile: 2 Citations: 5 DOI: 10.1109/LAWP.2023.3298664	2023
Characteristic mode analysis of a compact circularly polarized rotated square slot antenna <i>Kwame Oteng Gyasi Abdelheq Boukarkar Kingsford Sarkodie Obeng Kwakye Mubarak Sani Ellis Abdul-Rahman Ahmed Jerry John Kponyo Muhammad Abdul Basit Noshervan Shoaib</i> <i>Microwave and Optical Technology Letters</i>, Pages 1-8 Impact Factor: 1.311 Quartile: 4 Citations: 6 DOI: https://doi.org/10.1002/mop.33616	2023
2-Dimensional (2D) Beam Steering-Antenna Using Active PRS for 5G Applications <i>Misha Nadeem Noshervan Shoaib Aimen Raza Warda Saeed Imran Shoaib Sultan Shoaib</i> <i>Micromachines</i>, Volume 14(1), Article Number 110 Impact Factor: 3.523 Quartile: 2 Citations: 5 DOI: https://doi.org/10.3390/mi14010110	2022
Substrate-Integrated Coaxial Line (SICL) Rotman Lens Beamformer for 5G/B5G Applications <i>M. Saad Ali Hamna Naveed Muhammad Ali Babar Abbasi Noshervan Shoaib Vincent F. Fusco</i> <i>Electronics</i>, Volume 12(1), Article Number 69 Impact Factor: 2.690 Quartile: 3 Citations: 3 DOI: https://doi.org/10.3390/electronics12010069	2022
Two-Dimensional Materials for Future Terahertz Wireless Communications <i>Abdoalbaset Abohmra Zia Ullah Khan Hasan T. Abbas Noshervan Shoaib Muhammad A. Imran Qammer H. Abbasi</i> <i>IEEE Open Journal of Antennas and Propagation</i>, Volume 3, Pages 217-228 Impact Factor: 4.0 (ESCI) Citations: 19 DOI: 10.1109/OJAP.2022.3143994	2022
AMC Integrated Multilayer Wearable Antenna for Multiband WBAN Applications <i>Iqra Aitbar Noshervan Shoaib Akram Alomainy Abdul Quddious Symeon Nikolaou Muhammad Ali Imran Qammer H. Abbasi</i> <i>CMC-Computers, Materials & Continua</i>, Volume 71, No.2, Pages 3227-3241 Impact Factor: 3.772 Quartile: 2 Citations: 10 DOI: 10.32604/cmc.2022.023008	2022

- Design and development of a multi-functional bi-anisotropic metasurface with ultra-wide out of band transmission** 2021
Fahad Ahmed Tania Tamoor Tayyab Hassan Noshawan Shoaib Akram Alomainy Qammer H. Abbasi
Scientific Reports , Volume 11, Article Number: 24244
Impact Factor: 4.379 | **Quartile:** 1 | **Citations:** 11
DOI: <https://doi.org/10.1038/s41598-021-03705-x>
- A boomerang-shaped UWB antenna for spectrum sensing** 2021
Ubaid ur Rahman Qureshi Moazam Maqsood Muhammad Amin Abdur Rahman Maud Noshawan Shoaib
Journal of Electromagnetic Waves and Applications , Pages 1-17
Impact Factor: 1.335 | **Quartile:** 4 | **Citations:** 1
DOI: <https://doi.org/10.1080/09205071.2021.1996281>
- A Multifunctional Ultrathin Flexible Bianisotropic Metasurface with Miniaturized Cell Size** 2021
Tania Tamoor Noshawan Shoaib Fahad Ahmed Tayyab Hassan Abdul Quddious Symeon Nikolaou Akram Alomainy Muhammad Ali Imran Qammer H. Abbasi
Scientific Reports , Volume 11, Article Number 18426
Impact Factor: 4.379 | **Quartile:** 1 | **Citations:** 9
DOI: [10.1038/s41598-021-97930-z](https://doi.org/10.1038/s41598-021-97930-z)
- Compact Quad-Element High-Isolation Wideband MIMO Antenna for mm-Wave Applications** 2021
Daniyal Ali Sehrai Muhammad Asif Noshawan Shoaib Muhammad Ibrar Saeedullah Jan Mohammad Alibakhshikenari Ali Lalbakhsh Ernesto Limiti
Electronics , Volume 10(11), Article Number 1300
Impact Factor: 2.690 | **Quartile:** 3 | **Citations:** 88
DOI: <https://doi.org/10.3390/electronics10111300>
- Dual circularly polarized series-fed patch antenna array integrated with beam switching network** 2021
Noman Ahmad Javaria Aslam Haq Nawaz Humayun Shahid Noshawan Shoaib
International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Pages 1-19, Article Number e2885
Impact Factor: 1.436 | **Quartile:** 3 | **Citations:** 4
DOI: <https://doi.org/10.1002/jnm.2885>
- A multiband circular polarization selective metasurface for microwave applications** 2021
Syed Muhammad Qasim Ali Shah Noshawan Shoaib Fahad Ahmed Akram Alomainy Abdul Quddious Symeon Nikolaou Muhammad Ali Imran Qammer H. Abbasi
Scientific Reports , Volume 11, Article Number: 1774
Impact Factor: 4.997 | **Quartile:** 2 | **Citations:** 23
DOI: <https://doi.org/10.1038/s41598-021-81435-w>
- A Compact, Bistatic Antenna System with Very High Interport Isolation for 2.4 GHz In-Band Full Duplex Applications** 2021
Haq Nawaz Noshawan Shoaib Ahmad Umar Niazi Shabbir Majeed Chaudhry
International Journal of Antennas and Propagation , Volume 2021, Article ID 8855726, 8 pages
Impact Factor: 1.244 | **Quartile:** 4 | **Citations:** 5
DOI: <https://doi.org/10.1155/2021/8855726>
- Eight Element Side Edged Framed MIMO Antenna Array for Future 5G Smart Phones** 2020
Saad Hassan Kiani Ahsan Altaf Mujeeb Abdullah Fazal Muhammad Noshawan Shoaib Muhammad Rizwan Anjum Robertas Damasevicius Tomas Blazauskas
Micromachines , Volume 11, Issue 11, Article Number 956
Impact Factor: 2.891 | **Quartile:** 1 | **Citations:** 78
DOI: <https://doi.org/10.3390/mi11110956>
- A Multiband Bianisotropic FSS with Polarization Insensitive and Angularly Stable Properties** 2020
Fahad Ahmed Tayyab Hassan Noshawan Shoaib
IEEE Antennas and Wireless Propagation Letters , Volume 19, Issue 10, Pages 1833-1837
Impact Factor: 3.834 | **Quartile:** 2 | **Citations:** 37
DOI: [10.1109/LAWP.2020.3020949](https://doi.org/10.1109/LAWP.2020.3020949)
- Quad-Band 3D Rectenna Array for Ambient RF Energy Harvesting** 2020
Fatima Khalid Warda Saeed Noshawan Shoaib Muhammad Umer Khan Hammad Mehmood Cheema
International Journal of Antennas and Propagation , Volume 2020 |Article ID 7169846 | 23 pages
Impact Factor: 1.174 | **Quartile:** 4 | **Citations:** 24
DOI: <https://doi.org/10.1155/2020/7169846>

A Wideband Tunable Power Divider for SWIPT Systems	2020
<i>Sana Ilyas Symeon Nikolaou Hammad M. Cheema Noshewan Shoaib</i> <i>IEEE Access</i> , Published in: IEEE Access (Volume: 8) Page(s): 30675 - 30681, INSPEC Accession Number: 19362232 Impact Factor: 3.367 Quartile: 2 Citations: 21 DOI: 10.1109/ACCESS.2020.2970781	
Design and Development of MIMO Antennas for WiGig Terminals	2019
<i>Sultan Shoaib Noshewan Shoaib Riqza Y. Khattak Imran Shoaib Masood Ur Rehman Xiaodong Yang</i> <i>Electronics</i> , volume 8, issue 12, Article Number 1548 Impact Factor: 2.412 Quartile: 2 Citations: 11 DOI: https://doi.org/10.3390/electronics8121548	
Thin carbon nanostructure mat with high electromagnetic interference shielding performance	2019
<i>Hammad Younes Noshewan Shoaib Md Mahfuzur Rahman Rashid Abu Al-Rub Haiping Hong Greg Christensen Hang Chen Ahmad Bani Younes Amal Al Ghaferi</i> <i>Synthetic Metals</i> , Volume: 253 Pages: 48-56 Impact Factor: 3.286 Quartile: 1 Citations: 19 DOI: 10.1016/j.synthmet.2019.04.026	
MIMO Antennas for Smart 5G Devices	2018
<i>Aqib Perwaiz Sultan Shoaib Riqza Y. Khattak Imran Shoaib Xiaodong Chen Noshewan Shoaib</i> <i>IEEE Access</i> , IEEE Access Volume 6, Pages 77014-77021 Impact Factor: 4.098 Quartile: 1 Citations: 110 DOI: 10.1109/ACCESS.2018.2876763	
Design and performance analysis of pattern reconfigurable MIMO antennas for mobile smartphones	2017
<i>Sultan Shoaib Imran Shoaib Xiaodong Chen Noshewan Shoaib</i> <i>Microwave and Optical Technology Letters</i> , Volume 59, Issue 1, Pages 148-156 Impact Factor: 0.948 Quartile: 4 Citations: 17 DOI: 10.1002/mop.30256	
UNCERTAINTY ANALYSIS FOR MATERIAL MEASUREMENTS USING THE VECTOR NETWORK ANALYZER	2016
<i>Noshewan Shoaib Marco Sellone Luca Oberto Luciano Brunetti</i> <i>Microwave and Optical Technology Letters</i> , Volume: 58 Issue: 8 Pages: 1841-1844 Impact Factor: 0.731 Quartile: 4 Citations: 5 DOI: 10.1002/mop.29917	
Intercomparison of Terahertz Dielectric Measurements Using Vector Network Analyzer and Time-Domain Spectrometer	2016
<i>Mira Naftaly Noshewan Shoaib Daniel Stokes Nick M. Ridler</i> <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , Volume: 37 Issue: 7 Pages: 691-702 Impact Factor: 2.54 Quartile: 2 Citations: 19 DOI: 10.1007/s10762-016-0256-y	
Investigation of Verification Artifacts in WR-03 Waveguides	2015
<i>Noshewan Shoaib Karsten Kuhlmann Rolf Judaschke Marco Sellone Luciano Brunetti</i> <i>JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES</i> , Volume: 36 Issue: 11 Pages: 1089-1100 Impact Factor: 1.851 Quartile: 2 Citations: 6 DOI: 10.1007/s10762-015-0193-1	
A novel type N coaxial air-line verification standard	2015
<i>Noshewan Shoaib Karsten Kuhlmann Rolf Judaschke</i> <i>Metrologia</i> , Volume: 52 Issue: 4 Pages: 469-477 Impact Factor: 2.5 Quartile: 1 Citations: 6 DOI: 10.1088/0026-1394/52/4/469	
Improvements on INRIM Coaxial Microcalorimeter and Outcome of a Model Comparison	2015
<i>Luciano Brunetti Luca Oberto Marco Sellone Noshewan Shoaib Emil Vremera</i> <i>IEEE Transactions on Instrumentation and Measurement</i> , Volume: 64 Issue: 6 Pages: 1472-1476 Impact Factor: 1.808 Quartile: 2 Citations: 4 DOI: 10.1109/TIM.2015.2406052	
MIMO Antennas for Mobile Handsets	2015
<i>Sultan Shoaib Imran Shoaib Noshewan Shoaib Xiaodong Chen Clive G. Parini</i>	

IEEE Antennas and Wireless Propagation Letters , Volume: 14 Pages: 799-802	
Impact Factor: 1.751 Quartile: 2 Citations: 59	
DOI: 10.1109/LAWP.2014.2385593	
Design and Performance Study of a Dual-Element Multiband Printed Monopole Antenna Array for MIMO Terminals	2014
Sultan Shoaib Imran Shoaib Noshervan Shoaib Xiaodong Chen Clive G. Parini	
IEEE Antennas and Wireless Propagation Letters , Volume: 13 Pages: 329-332,	
Impact Factor: 1.579 Quartile: 2 Citations: 127	
DOI: 10.1109/LAWP.2014.2305798	
Comparison of S-Parameter Measurements at Millimeter Wavelengths Between INRIM and NMC	2014
Marco Sellone Luca Oberto Yueyan Shan Yu Song Meng Luciano Brinetti Noshervan Shoaib	
IEEE Transactions on Instrumentation and Measurement, Volume: 63 Issue: 7 Pages: 1810-1817	
Impact Factor: 1.790 Quartile: 2 Citations: 14	
DOI: 10.1109/TIM.2013.2293227	
A novel approach to transform an open circuit series stub to a short circuit shunt stub for the implementation of high-pass butterworth filter	2013
Noshervan Shoaib Imran Shoaib Sultan Shoaib	
Microwave and Optical Technology Letters, Volume 55, Issue 3, Pages 497-501	
Impact Factor: 0.623 Quartile: 4 Citations: 4	
DOI: 10.1002/mop.27354	
A novel inconsistency condition for 2-port vector network analyzer calibration	2012
Noshervan Shoaib	
Microwave and Optical Technology Letters, Volume 54, Issue 10, Pages 2372-2375	
Impact Factor: 0.585 Quartile: 3 Citations: 3	
DOI: 10.1002/mop.27072	
Design, Analysis and Optimization of Multistage LNA at KUBand - 16897	2011
Mujeeb Ahmed Noshervan Shoaib Iftekhar Mahmood	
Journal of Space Technology, Vol 1, issue No. 1, Pages 95-100	
Impact Factor: 0	
DOI: https://www.ist.edu.pk/jst/previous-issues/july-2011	
Conference Proceedings	
Wideband Circularly Polarized Reflectionless Filtenna	2025
Adnan Nadeem Noshervan Shoaib Dimitra Psychogiou Photos Vryonides Symeon Nikolaou	
2025 19th European Conference on Antennas and Propagation (EuCAP), res.country(196,)	
Citations: N/A	
DOI: 10.23919/EuCAP63536.2025.10999881	
A Different Approach Design for Higher-Order Highly Selective Wideband Bandpass Filters Using Cascaded Building Blocks	2024
Adnan Nadeem Noshervan Shoaib Symeon Nikolaou Dimitra Psychogiou Photos Vryonides	
2024 IEEE Asia-Pacific Microwave Conference (APMC), res.country(100,)	
Citations: N/A	
DOI: 10.1109/APMC60911.2024.10867428	
Polarization Agile Frequency Selective Surface(FSS) for C, X and Ku bands	2024
S. Ahmad A. Nadeem Noshervan Shoaib	
2024 International Microwave and Antenna Symposium (IMAS), res.country(136,)	
Citations: N/A	
DOI: 10.1109/IMAS61316.2024.10817930	
Ka-Band 3D-Printed Dielectric GRIN Planar Lens Antenna with Beam Forming Capabilities	2024
Adnan Nadeem Noshervan Shoaib Photos Vryonides Antonis Papadakis Symeon Nikolaou	
2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI), res.country(109,)	
Citations: N/A	
DOI: 10.1109/AP-S/INC-USNC-URSI52054.2024.10686639	
Dynamically Reconfigurable Polarizer Implemented Using an Energy Harvesting Triggered Metasurface	2024

<i>Adnan Nadeem Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> 2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI), res.country(109,) Citations: N/A DOI: 10.1109/AP-S/INC-USNC-URSI52054.2024.10686807	
Multifunctional Linear Dichroism and Polarization Transforming Metasurface for mm-Wave Application <i>Ahsaan Gul Hassan Anum Zulqarnain Muhammad Danial Shafi Adnan Nadeem Sultan Shoaib Imran Shoaib Mohaira Ahmad Noshewan Shoaib</i> 18th European Conference on Antennas and Propagation, 17-22 March 2024, res.country(231,) Citations: N/A DOI: Nil	2024
Bi-layered Chiral Metasurface with Angularly Stable Asymmetric Transmission <i>Quratulain Adnan Nadeem Imran Hafeez Abbasi Noshewan Shoaib Antonis Papadakis Photos Vryonides Symeon Nikolaou</i> 2023 Asia-Pacific Microwave Conference (APMC), res.country(227,) Citations: N/A DOI: 10.1109/APMC57107.2023.10439859	2023
Broad-band Absorptive Metasurface for Ku- & K-band Frequency Channels <i>Ahsaan Gul Hassan Adnan Nadeem H. İldeş Muhammad Sumaid Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> 2023 Seventeenth International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials), res.country(88,) Citations: N/A DOI: 10.1109/Metamaterials58257.2023.10289360	2023
Intelligent Polarization Reconfigurable Surface for S-Band Applications <i>Muhammad Sumaid Wajeeh Hassan Ahmad Javed Adnan Nadeem Noshewan Shoaib David Chatzichristodoulou Symeon Nikolaou</i> IEEE Antennas and Propagation Society, AP-S International Symposium (Digest), res.country(233,) Citations: N/A DOI: 10.1109/USNC-URSI52151.2023.10237374	2023
Gain Enhancement of a 5G mmWave 2x2 Antenna Array Using a 3D Printed Hemispherical Lens <i>Adnan Nadeem David Chatzichristodoulou Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> IEEE Antennas and Propagation Society, AP-S International Symposium (Digest), res.country(233,) Citations: N/A DOI: 10.1109/USNC-URSI52151.2023.10237955	2023
Polarization Reconfigurable Intelligent Metasurface for X- & Ku-band Applications in Communications <i>Muhammad Sumaid Ahsaan Gul Hassan Noshewan Shoaib Symeon Nikolaou</i> 2023 International Microwave and Antenna Symposium, IMAS 2023, res.country(65,) Citations: N/A DOI: 10.1109/IMAS55807.2023.10066931	2023
UHF IoT Humidity and Temperature Sensor for Smart Agriculture Applications Powered from an Energy Harvesting System <i>Adnan Nadeem David Chatzichristodoulou Abdul Quddious Noshewan Shoaib Loukia Vassiliou Photos Vryonides Symeon Nikolaou</i> 2022 IEEE International Conference on Internet of Things and Intelligence Systems (IoTIS), res.country(100,) Citations: N/A DOI: 10.1109/IoTIS56727.2022.9975982	2022
Frequency Reconfigurable Polarization Conversion Metasurface <i>Ahsaan Gul Hassan Muhammad Sumaid Salman Khattak Fahad Ahmed Noshewan Shoaib</i> 2022 International Conference on IT and Industrial Technologies (ICIT), res.country(177,) Citations: N/A DOI: 10.1109/ICIT56493.2022.9989176	2022
Multifunctional Switchable Filter Using Shorted Coupled-Line Sections <i>Minahil Shirazi David Chatzichristodoulou Abdul Quddious Noshewan Shoaib Dimitra Psychogiou Symeon Nikolaou Photos Vryonides</i> 2022 52nd European Microwave Conference, EuMC 2022, res.country(109,) Citations: N/A DOI: 10.23919/EuMC54642.2022.9924419	2022
Polarization transforming metasurface for millimeter-wave (mmW) applications <i>Ahsaan Gul Hassan Muhammad Sumaid M. Salman Khattak Fahad Ahmed Noshewan Shoaib</i> 2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A	2022

DOI: 10.1109/IBCAST54850.2022.9990532	
Polarization Agility Using A Microfluidically Reconfigurable Metasurface <i>Hamza Kiani Adnan Nadeem Abdul Quddious David Chatzichristodoulou Noshewan Shoaib Dimitra Psychogiou Photos Vryonides Symeon Nikolaou</i> 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), res.country(233,)	2022
Citations: N/A DOI: 10.1109/AP-S/USNC-URSI47032.2022.9887084	
Reconfigurable Reflective Polarization Converter MSF for mm Wave 5G Applications <i>Muhammad Sumaid Ahsaaan Gul Hassan Ayesha Subhan Noshewan Shoaib Symeon Nikolaou</i> 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), res.country(233,)	2022
Citations: N/A DOI: 10.1109/AP-S/USNC-URSI47032.2022.9887347	
Radiation Beam Steering Using A Microfluidically Reconfigurable Metasurface Superstrate <i>Hamza Kiani Abdul Quddious David Chatzichristodoulou Noshewan Shoaib Dimitra Psychogiou Photos Vryonides Symeon Nikolaou</i> 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), res.country(233,)	2022
Citations: N/A DOI: 10.1109/AP-S/USNC-URSI47032.2022.9887334	
WPT Enabled Autonomous RFID Tag for Enhanced Range and Accuracy Localization <i>Adnan Nadeem David Chatzichristodoulou Abdul Quddious Noshewan Shoaib Loukia Vassiliou Photos Vryonides Symeon Nikolaou</i> 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), res.country(233,)	2022
Citations: N/A DOI: 10.1109/AP-S/USNC-URSI47032.2022.9886603	
Improved Rectifier Efficiency Using Multi-sine Input Signals <i>Hamza Kiani Abdul Quddious David Chatzichristodoulou Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> 2022 International Workshop on Antenna Technology (iWAT), res.country(101,)	2022
Citations: N/A DOI: 10.1109/iWAT54881.2022.9811072	
Microfluidically Frequency & Polarization Reconfigurable Patch Antennas <i>Hamza Kiani David Chatzichristodoulou Adnan Nadeem Abdul Quddious KIOS Noshewan Shoaib Photos Vryonides Dimitris E. Anagnostou Symeon Nikolaou</i> 2022 16th European Conference on Antennas and Propagation (EuCAP), res.country(68,)	2022
Citations: N/A DOI: 10.23919/EuCAP53622.2022.9769671	
Transmitter Considerations for 5G Wireless Powered Sensor Networks <i>Adnan Nadeem David Chatzichristodoulou Hamza Kiani Abdul Quddious KIOS Loukia Vassiliou Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> 2022 16th European Conference on Antennas and Propagation (EuCAP), res.country(68,)	2022
Citations: N/A DOI: 10.23919/EuCAP53622.2022.9769561	
A Polarization Insensitive Frequency Selective Bianisotropic Surface <i>Muhammad Sumaid Noshewan Shoaib Fahad Ahmad Symeon Nikolaou</i> 2022 IEEE Radio and Wireless Symposium (RWS), res.country(233,)	2022
Citations: N/A DOI: 10.1109/RWS53089.2022.9719948	
High-Efficiency Doherty Power Amplifier for S-band Communication Applications <i>Junaid Tahir Adnan Nadeem Faizan Hussain Ali Imran Najam Noshewan Shoaib Abdul Quddious Photos Vryonides Symeon Nikolaou</i> 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)	2021
Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678271	
X-Ray Communication for Space Borne Missions <i>Wardah Khan Khawar Shafiq Hamda Khan Noshewan Shoaib</i> 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)	2021
Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678235	
On the Phase-aligned Transmission Lines of a mmWave 5G Rotman lens Based Beamformer <i>M. Saad Ali M. Ali Babar Abbasi Noshewan Shoaib</i> 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)	2021

Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678234	
Beam Steering Antenna System Based on Active Partially Reflective Surface <i>Aimen Raza Noshewan Shoaib M. Umer Khan</i> 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)	2021
Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678239	
Broadband Cross Polarization Conversion for Linear Transmission via Bi-layered Chiral Metasurface <i>Quratulain Noshewan Shoaib</i> 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), res.country(177,)	2021
Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678265	
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Citations: N/A DOI: 10.1109/ICMAC54080.2021.9678243	
A Wide-Band Metasurface for Asymmetric Microwave Transmission with Circular Polarization Conversion for Satellite Communications <i>Adnan Nadeem Noshewan Shoaib Abdul Quddious Symeon Nikolaou</i> 2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APS/URSI 2021 - Proceedings, res.country(197,)	2021
Citations: N/A DOI: 10.1109/APS/URSI47566.2021.9704076	
A Wide-Band Metasurface for Asymmetric Microwave Transmission with Circular Polarization Conversion for Satellite Communications <i>Sahar Bibi Noshewan Shoaib Abdul Quddious Symeon Nikolaou</i> 2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APS/URSI 2021 - Proceedings, res.country(197,)	2021
Citations: N/A DOI: 10.1109/APS/URSI47566.2021.9704076	
Reconfigurable Beamforming Array for Far Field Wireless Power Transfer Applications <i>Adnan Nadeem David Chatzichristodoulou Chris Loakimidis Photos Vryonides Noshewan Shoaib Symeon Nikolaou</i> 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), res.country(197,)	2021
Citations: N/A DOI: 10.1109/APS/URSI47566.2021.9704421	
A Multi-functional Polarization Reconfigurable Metasurface for C-band Applications <i>Hamza Kiani Abdul Quddious Noshewan Shoaib Photos Vryonides Symeon Nikolaou</i> 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), res.country(197,)	2021
Citations: N/A DOI: 10.1109/APS/URSI47566.2021.9704273	
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Single Feed Dual-Band RHCP Dielectric Resonator Antenna for GNSS Applications <i>Saad Mansoor Noshewan Shoaib Hammad M. Cheema Atif Shamim</i> 2021 International Applied Computational Electromagnetics Society Symposium (ACES), res.country(38,)	2021
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Citations: N/A	

DOI: 10.23919/EuCAP51087.2021.9411061

An Angularly Stable Anisotropic Metasurface for Polarization Conversion Applications

2021

Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshawan Shoaib Abdul Quddious Symeon Nikolaou Qammer H. Abbasi
2021 15th European Conference on Antennas and Propagation (EuCAP), res.country(57,)

Citations: N/A

DOI: 10.23919/EuCAP51087.2021.9411192

A Flexible and Ultrathin FSS for EM Shielding Applications

2020

Syed Muhammad Qasim Ali Shah Fahad Ahmed Tania Tamoor Tayyab Hassan Sana Ilyas Noshawan Shoaib Syed Muhammad Qasim Ali Shah Fahad Ahmed Tania Tamoor Tayyab Hassan Sana Ilyas Noshawan Shoaib
International Symposium on Electromagnetic Compatibility - EMC EUROPE, res.country(109,)

Citations: N/A

DOI: 10.1109/EMCEUROPE48519.2020.9245795

An FSS Based Stop Band Filter for EM Shielding Application

2020

Tania Tamoor Fahad Ahmed Syed Muhammad Qasim Ali Shah Tayyab Hassan Noshawan Shoaib Tania Tamoor Fahad Ahmed Syed Muhammad Qasim Ali Shah Tayyab Hassan Noshawan Shoaib
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Citations: N/A

DOI: 10.1109/EMCEUROPE48519.2020.9245881

Graphene based Reflect Standard for VNA Calibration

2020

Noshawan Shoaib Noshawan Shoaib
2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science, res.country(109,)

Citations: N/A

DOI: 10.23919/URSIGASS49373.2020.9232289

A Miniaturized FSS Based Band-Stop Filter for EMI Shielding Applications

2020

Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshawan Shoaib Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshawan Shoaib
International Conference on UK-China Emerging Technologies (UCET), res.country(231,)

Citations: N/A

DOI: 10.1109/UCET51115.2020.9205483

An Ultra-Wideband Metasurface for Half-Mirror and QWP Operations

2020

Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshawan Shoaib Muhammad U. Khan
2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, res.country(38,)

Citations: N/A

DOI: 10.1109/IEEECONF35879.2020.9329873

A Multi-Functional Metasurface for Polarization Transformation Applications Publisher: IEEE Cite This

2020

PDF

Fahad Ahmed Tayyab Hassan Tania Tamoor Noshawan Shoaib
2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, res.country(38,)

Citations: N/A

DOI: 10.1109/IEEECONF35879.2020.9330078

A Multiband and Multifunctional Metasurface for Polarization Conversion Applications

2020

Sana Ilyas Aimen Raza Fahad Ahmed Syed M. Qasim Ali Shah Noshawan Shoaib Muhammad Umar Khan Muhammad U. Khan
2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, res.country(38,)

Citations: N/A

DOI: 10.1109/IEEECONF35879.2020.9329677

A Wide-Band Metasurface with Wide Angle Polarization Conversion

2020

Fahad Ahmed Iqra Aitbar Syed M. Qasim Ali Shah Imran Shoaib Noshawan Shoaib
2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, res.country(38,)

Citations: N/A

DOI: 10.1109/IEEECONF35879.2020.9330055

A Frequency Agile Dual-Band GNSS Receiver Front end with Anti-Jamming Capabilities

2020

Faisal Ilyas Safwat Irteza Noshawan Shoaib Hammad M. Cheema
2020 European Navigation Conference (ENC), res.country(57,)

Citations: N/A

DOI: 10.23919/ENC48637.2020.9317433

A Highly Efficient Multifunctional Metasurface for C-and X-Band Applications <i>Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshewan Shoaib Syed Muhammad Qasim Ali Shah Fahad Ahmed Noshewan Shoaib</i> <i>14th European Conference on Antennas and Propagation (EuCAP), res.country(59,)</i> Citations: N/A DOI: 10.23919/EuCAP48036.2020.9135716	2020
EMC/I Analysis of Miniaturized Bio-Mechanical Sports Wearables <i>Noshewan Shoaib Syeda Narjis Fatima Zaidi Ahmed Shafqat Hammad M. Cheema</i> <i>12th International Workshop on the Electromagnetic Compatibility of Integrated Circuits (EMC Compo), res.country(48,)</i> Citations: N/A DOI: https://doi.org/10.1109/EMCCompo.2019.8919820	2019
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On the uncertainty of network analysis methods for the calibration of electrical impedance standards at high frequency <i>Luca Callegaro Marco Sellone Noshewan Shoaib</i> <i>IEEE International Instrumentation and Measurement Technology Conference (I2MTC), res.country(109,)</i> Citations: N/A DOI: 10.1109/I2MTC.2017.7969786	2017
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Investigation of verification artefacts in rectangular waveguides up to 325 GHz <i>Nosherwan Shoaib Karsten Kuhlmann Rolf Judaschke</i> <i>2015 1st URSI Atlantic Radio Science Conference (URSI AT-RASC), res.country(68,)</i> Citations: N/A DOI: 10.1109/URSI-AT-RASC.2015.7302818	2015
Improvements on INRIM Coaxial Microcalorimeter <i>Luciano Brunetti Luca Oberto Marco Sellone Nosherwan Shoaib Emil Vremera</i> <i>29th Conference on Precision Electromagnetic Measurements (CPEM 2014), res.country(31,)</i> Citations: N/A DOI: 10.1109/CPEM.2014.6898603	2014
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A 4x4 MIMO Antenna System for Mobile Tablets <i>Sultan Shoaib Imran Shoaib Nosherwan Shoaib Xiaodong Chen Clive G Parini</i> <i>The 8th European Conference on Antennas and Propagation (EuCAP 2014), res.country(165,)</i> Citations: N/A DOI: 10.1109/EuCAP.2014.6902411	2014
Error propagation with different VNA calibration techniques at millimeter frequencies <i>Nosherwan Shoaib Marco Sellone Andrea Ferrero Luca Oberto Luciano Brinetti</i> <i>82nd ARFTG Microwave Measurement Conference, res.country(233,)</i> Citations: N/A DOI: 10.1109/ARFTG-2.2013.6737351	2013
A switched-beam three-element printed loop antenna array for MIMO systems <i>Ifitikhar Ahmed Imran Shoaib Sultan Shoaib Nosherwan Shoaib</i> <i>2013 7th European Conference on Antennas and Propagation (EuCAP), res.country(196,)</i> Citations: N/A DOI: N/A	2013
A Printed Hybrid Loop Planar Inverted-F Antenna for Next Generation Handheld Terminals <i>Ifitikhar Ahmed Imran Shoaib Nosherwan Shoaib Arslan Rasheed Sultan Shoaib</i> <i>2013 7th European Conference on Antennas and Propagation (EuCAP), res.country(196,)</i> Citations: N/A	2013

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<i>Proceedings of the 5th European Conference on Antennas and Propagation (EUCAP)</i> , res.country(109,)	
Citations: N/A	
DOI: N/A	
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<i>Noshewan Shoaib Mujeeb Ahmad Iftekhhar Mahmood</i>	
<i>2008 2nd International Conference on Advances in Space Technologies</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICAST.2008.4747679	

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Vector Network Analyzer (VNA) Measurements and Uncertainty Assessment	2017
<i>Noshewan Shoaib</i>	
1st ed. 2017 Edition, Pages 1-142	
Citations: N/A	
DOI: 10.1007/978-3-319-44772-8	

Book Chapters

Metasurface: An Insight into Its Applications	2021
<i>Fahad Ahmed Noshewan Shoaib</i>	
In: <i>Book on Backscattering and RF Sensing for Future Wireless Communication</i> , Chapter 5, Pages 85-115	
Citations: 20	
DOI: https://doi.org/10.1002/9781119695721.ch5	

Editorial Activities

Transactions on Antennas and Propagation	2025
Reviewed Papers for Journals	
Impact Factor: 5.8	
IEEE Access	2025
Reviewed Papers for Journals	
Impact Factor: 3.4	
IEEE Transactions on Instrumentation and Measurement	2025
Reviewed Papers for Journals	
Impact Factor: 5.6	
IEEE Access	2024
Reviewed Papers for Journals	
Impact Factor: 3.4	
Optics and Laser Technology	2024
Reviewed Papers for Journals	
Impact Factor: 4.6	
Reviewed Papers for Journals	2024
Impact Factor: 1	
Results in Physics	2024
Reviewed Papers for Journals	
Impact Factor: 4.4	
IEEE Journal of Microwaves	2024
Reviewed Papers for Journals	
Impact Factor: 6.9	
IEEE Transactions on Instrumentation and Measurement	2024
Reviewed Papers for Journals	
Impact Factor: 5.6	

Engineering Reports	2024
Reviewed Papers for Journals	
Impact Factor: N/A	
IEEE Transactions on Aerospace and Electronic Systems	2023
Reviewed Papers for Journals	
Impact Factor: 4.4	
IEEE Transactions on Instrumentation and Measurement	2023
Reviewed Papers for Journals	
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IEEE Transactions on Instrumentation & Measurement	2023
Reviewed Papers for Journals	
Impact Factor: 5.6	
IEEE Transactions on Instrumentation and Measurement	2023
Reviewed Papers for Journals	
Impact Factor: 5.332	
Electronics	2023
Reviewed Papers for Journals	
Impact Factor: 2.690	
IEEE Transactions on Instrumentation & Measurement	2023
Reviewed Papers for Journals	
Impact Factor: 5.332	
Transactions on Electromagnetic Compatibility	2023
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IEEE Transactions on Instrumentation & Measurement	2023
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Electronics	2023
Reviewed Papers for Journals	
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Applied Sciences-Basel	2022
Reviewed Papers for Journals	
Impact Factor: 2.838	
Micromachines	2022
Reviewed Papers for Journals	
Impact Factor: 3.523	
Transactions on Antennas and Propagation	2022
Reviewed Papers for Journals	
Impact Factor: 4.824	
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Reviewed Papers for Journals	
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Transactions on Electromagnetic Compatibility	2022
Reviewed Papers for Journals	
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IEEE Transactions on Instrumentation and Measurement	2022
Reviewed Papers for Journals	
Impact Factor: 5.332	
Transactions on Electromagnetic Compatibility	2022
Reviewed Papers for Journals	
Impact Factor: 2.036	

Transactions on Microwave Theory and Techniques Reviewed Papers for Journals Impact Factor: 4.381	2022
IEEE Access Reviewed Papers for Journals Impact Factor: 3.367	2021
Transactions on Microwave Theory and Techniques Reviewed Papers for Journals Impact Factor: 3.599	2021
Transactions on Antennas and Propagation Reviewed Papers for Journals Impact Factor: 4.824	2021
IEEE Transactions on Microwave Theory and Techniques Reviewed Papers for Journals Impact Factor: 4.381	2021
Editor in Chief of Journal Impact Factor: 3.367	2021
Reviewed Papers for Journals Impact Factor: 2.862	2021
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Reviewed Papers for Journals	2020

Impact Factor: 3.658	
Reviewed Papers for Journals	2020
Impact Factor: 3.726	
Reviewed Papers for Journals	2020
Impact Factor: 4.371	
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Reviewed Papers for Journals	2019
Impact Factor: Nil	
Reviewed Papers for Journals	2019
Impact Factor: 3.745	
Editor in Chief of Journal	2019
Impact Factor: 3.745	

Copyrights

Patents

Patch Antenna Array with Wide Bandwidth, High Gain and Wide Azimuth Beamwidth for Passive Sensing	2020
Status: Filed	
An Automated Machine Learning based Solar Powered Aquaponics System	2019
Status: Filed	
Frequency Tunable Microstrip Based Directional Coupler for High Directivity	2018
Status: Filed	

Industrial Designs

Bow-Tie Shaped Metasurface	2023
Status: Filed	
Spinner Shaped Metasurface	2023
Status: Filed	
Split Coin Shaped Metasurface	2023
Status: Filed	
Blade Antenna Array	2023
Status: Filed	
Split Ring-shaped Metasurface	2023
Status: Filed	
Fan-shaped Metasurface	2023
Status: Filed	
Dual Split Ring-shaped Metasurface	2023
Status: Filed	
Inscribed Squares-shaped Metasurface	2023
Status: Filed	
Diagonal Arrow-shaped Metasurface	2023
Status: Filed	
Star-shaped Metasurface	2023
Status: Filed	
Anchor-shaped Metasurface	2023
Status: Filed	
L-shaped Metasurface	2023
Status: Filed	

Trademarks