

# Farooq A Tahir

## List of Publications by Year in descending order

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102  
papers

1,784  
citations

304743

22  
h-index

302126

39  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-wideband cross polarization conversion metasurface insensitive to incidence angle. Journal of Applied Physics, 2017, 121, .	2.5	161
2	A Compact Kapton-Based Inkjet-Printed Multiband Antenna for Flexible Wireless Devices. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1802-1805.	4.0	128
3	Polarisation insensitive multifunctional metasurfaces based on all-dielectric nanowaveguides. Nanoscale, 2018, 10, 18323-18330.	5.6	98
4	Linear and circular-polarization conversion in X-band using anisotropic metasurface. Scientific Reports, 2019, 9, 4552.	3.3	97
5	3.56-bits/cm Compact Inkjet Printed and Application Specific Chipless RFID Tag. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1109-1112.	4.0	92
6	Design, fabrication and measurement of triple band frequency reconfigurable antennas for portable wireless communications. AEU - International Journal of Electronics and Communications, 2017, 81, 236-242.	2.9	59
7	Twisted non-diffracting beams through all dielectric meta-axicons. Nanoscale, 2019, 11, 20571-20578.	5.6	57
8	Disposable, Paper-Based, Inkjet-Printed Humidity and H <sub>2</sub> S Gas Sensor for Passive Sensing Applications. Sensors, 2016, 16, 2073.	3.8	53
9	A broadband cross-polarization conversion anisotropic metasurface based on multiple plasmon resonances. Chinese Physics B, 2018, 27, 014101.	1.4	50
10	A novel FSS for gain enhancement of printed antennas in UWB frequency spectrum. Microwave and Optical Technology Letters, 2017, 59, 2698-2704.	1.4	48
11	An angularly stable dual-broadband anisotropic cross polarization conversion metasurface. Journal of Applied Physics, 2017, 122, .	2.5	48
12	A High Gain and Wideband Narrow-Beam Antenna for 5G Millimeter-Wave Applications. IEEE Access, 2020, 8, 29430-29434.	4.2	47
13	A Novel Snowflake Fractal Antenna for Dual-Beam Applications in 28 GHz Band. IEEE Access, 2020, 8, 19873-19879.	4.2	42
14	Simultaneous quarter-wave plate and half-mirror operation through a highly flexible single layer anisotropic metasurface. Scientific Reports, 2017, 7, 16059.	3.3	41
15	EQUIVALENT ELECTRICAL CIRCUIT FOR DESIGNING MEMS-CONTROLLED REFLECTARRAY PHASE SHIFTERS. Progress in Electromagnetics Research, 2010, 100, 1-12.	4.4	30
16	A compact dual-band frequency-reconfigurable textile antenna for wearable applications. Microwave and Optical Technology Letters, 2015, 57, 2251-2257.	1.4	30
17	A compact half and quarter-wave plate based on bi-layer anisotropic metasurface. Journal Physics D: Applied Physics, 2017, 50, 43LT04.	2.8	30
18	Design and analysis of a novel tri-band flower-shaped planar antenna for GPS and WiMAX applications. Journal of Electromagnetic Waves and Applications, 2017, 31, 927-940.	1.6	29

#	ARTICLE	IF	CITATIONS
19	A Multifunctional Polarization Transforming Metasurface for C-, X-, and K-Band Applications. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2186-2190.	4.0	29
20	A broadband wire hexagon antenna array for future 5G communications in 28 GHz band. Microwave and Optical Technology Letters, 2019, 61, 696-701.	1.4	28
21	Multifunctional Single Layer Metasurface Based on Hexagonal Split Ring Resonator. IEEE Access, 2020, 8, 28054-28063.	4.2	28
22	Dual-Band Compact Rectenna for UHF and ISM Wireless Power Transfer Systems. IEEE Transactions on Antennas and Propagation, 2021, 69, 2392-2397.	5.1	25
23	A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	1.2	24
24	Small-Sized UWB MIMO Antenna With Band Rejection Capability. IEEE Access, 2019, 7, 121816-121824.	4.2	24
25	High capacity polarization sensitive chipless RFID tag. , 2015, , .		23
26	A Sub-6 GHz MIMO Antenna Array for 5G Wireless Terminals. Electronics (Switzerland), 2021, 10, 3062.	3.1	23
27	Broadband planar antenna array for future 5G communication standards. IET Microwaves, Antennas and Propagation, 2019, 13, 2661-2668.	1.4	22
28	Design of bowtie-slot on-chip antenna backed with E-shaped FSS at 94 GHz. , 2016, , .		21
29	Multiband linear and circular polarization converting anisotropic metasurface for wide incidence angles. Journal Physics D: Applied Physics, 2020, 53, 095005.	2.8	21
30	Dual-band planar spiral monopole antenna for 28/38 GHz frequency bands. , 2017, , .		19
31	A W-Band EBG-Backed Double-Rhomboid Bowtie-Slot On-Chip Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1046-1050.	4.0	19
32	Quasi-Crystal Metasurface for Simultaneous Half- and Quarter-Wave Plate Operation. Scientific Reports, 2018, 8, 15743.	3.3	18
33	A Super Wideband printed antenna with enhanced gain using FSS structure. , 2015, , .		16
34	Frequency reconfigurable antenna for handheld wireless devices. IET Microwaves, Antennas and Propagation, 2015, 9, 1412-1417.	1.4	15
35	Diamond step-index nanowaveguide to structure light efficiently in near and deep ultraviolet regimes. Scientific Reports, 2020, 10, 18502.	3.3	14
36	A honeycomb-shaped planar monopole antenna for broadband millimeter-wave applications. , 2017, , .		13

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37	A Dual-band Hexagon Monopole Antenna for 28 and 38 GHz Millimeter-Wave Communications. , 2018, , .		13
38	An hp-shape hexa-band antenna for multi-standard wireless communication systems. Wireless Networks, 2019, 25, 1361-1369.	3.0	13
39	A wideband rhombus monopole antenna array for millimeter wave applications. Microwave and Optical Technology Letters, 2020, 62, 2111-2117.	1.4	13
40	A compact hut-shaped printed antenna for superwideband applications. Microwave and Optical Technology Letters, 2015, 57, 2645-2649.	1.4	12
41	Broadband waveplate operation by orthotropic metasurface reflector. Journal of Applied Physics, 2019, 126, .	2.5	12
42	An ultra-wide band diversity antenna with band-rejection capability for imaging applications. Microwave and Optical Technology Letters, 2017, 59, 1661-1668.	1.4	11
43	A 2-element meandered-line slot-based frequency reconfigurable MIMO antenna system. Microwave and Optical Technology Letters, 2018, 60, 2794-2801.	1.4	11
44	A novel single-layer frequency selective surface for gain enhancement of SWB antennas. Microwave and Optical Technology Letters, 2016, 58, 2030-2035.	1.4	9
45	A miniaturized triple band-notched UWB antenna. Microwave and Optical Technology Letters, 2017, 59, 2581-2586.	1.4	9
46	Comment on "A novel ultrathin and broadband microwave metamaterial absorber" [J. Appl. Phys. 116, 094504 (2014)]. Journal of Applied Physics, 2018, 124, 146101.	2.5	9
47	A Compact Chip-less RFID Tag for IoT Applications. , 2020, , .		8
48	Antenna Systems for Internet of Things. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1.2	7
49	UWB antenna with dynamically reconfigurable notch band using rectenna and active booster. IET Microwaves, Antennas and Propagation, 2019, 13, 2046-2052.	1.4	7
50	A 32-Bit Single Quadrant Angle-Controlled Chipless Tag for Radio Frequency Identification Applications. Sensors, 2022, 22, 2492.	3.8	7
51	High-power broadband-loaded monopole antenna with sleeve ground plane for portable applications. Journal of Electromagnetic Waves and Applications, 2014, 28, 802-814.	1.6	6
52	Frequency band utilization enhancement for chipless RFID tag through place value encoding. , 2016, , .		6
53	A Frequency Reconfigurable MIMO Antenna System for Cognitive Radio Applications. Frequenz, 2017, 71, .	0.9	6
54	A fractal dual-band polarization diversity antenna for 5G applications. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
55	A high-gain inkjet-printed UWB LPDA antenna on paper substrate. International Journal of Microwave and Wireless Technologies, 2017, 9, 931-937.	1.9	6
56	MULTI-SCALE APPROACH FOR THE ELECTROMAGNETIC SIMULATION OF FINITE SIZE AND THICK FREQUENCY SELECTIVE SURFACES. Progress in Electromagnetics Research M, 2011, 17, 43-57.	0.9	5
57	Co-planar-waveguide fed Circularly Polarized Antenna for Wireless WLAN/LTE Applications. Electromagnetics, 2020, 40, 354-363.	0.7	5
58	A highly efficient low-cost reflective anisotropic metasurface for linear to linearly cross and circular polarization conversion. Microwave and Optical Technology Letters, 2021, 63, 1346-1353.	1.4	5
59	Micron-scale light structuring via flat nanodevices. , 2018, , .		5
60	A 2-element reconfigurable MIMO antenna consisting of miniaturized patch elements. , 2016, , .		4
61	Compact Polarization Diversity Antenna for 28/38 GHz Bands. , 2018, , .		4
62	Comment on "An ultrathin and broadband metamaterial absorber using multi-layer structures". Appl. Phys. 114, 064109 (2013)]. Journal of Applied Physics, 2019, 125, .	2.5	4
63	Wave discrimination at C-band frequencies in microstrip structures inspired by electromagnetically induced transparency. Scientific Reports, 2021, 11, 2983.	3.3	4
64	Manipulating twisted light beam through all-dielectric metasurfaces. , 2019, , .		4
65	A 12-bit Hexagonal Chip-less Tag for Radio Frequency Identification Applications. , 2020, , .		4
66	A compact uniplanar antenna for nine-band LTE/WWAN operation in tablet computers. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 496-502.	1.2	3
67	Dual-band frequency reconfigurable MIMO antenna with continuous tuning range. , 2017, , .		3
68	A Wearable Radiometric Antenna for Non-Invasive Brain Temperature Monitoring. , 2018, , .		3
69	A Compact Uniplanar Tri-band Antenna for Wearable Smart Watches. , 2018, , .		3
70	An Ultrathin Flexible Metasurface for Half Mirror and QWP Operation. , 2019, , .		3
71	An Efficient Anisotropic Metasurface for Linear and Circular-Polarization Conversion Applications. , 2020, , .		3
72	Multiband Reconfigurable MIMO Antenna for GSM/GPS/GLONASS/LTE/WWAN Wireless Terminals. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
73	Single Module UHF & ISM Rectennas for MIMO Energy Harvesting or SWIPT Systems. , 2020, , .		3
74	A multiband on-chip antenna for 94 and 140 GHz applications. , 2017, , .		2
75	Metasurface Design for Cross-polarization Conversion and Absorption Applications. , 2019, , .		2
76	A HIGHLY BENDABLE LOG-PERIODIC ARRAY ANTENNA FOR FLEXIBLE ELECTRONICS. Progress in Electromagnetics Research M, 2020, 96, 99-107.	0.9	2
77	Comment on "Wide band metamaterial absorber for Ku and K band applications" [J. Appl. Phys. 126, 175104 (2019)]. Journal of Applied Physics, 2020, 128, .	2.5	2
78	A High Gain and Wideband CPW-Fed Antenna for Millimeter-Wave Applications. , 2020, , .		2
79	UWB Antenna with Notches at WLAN Bands. , 2013, , .		1
80	Reconfigurable body worn antenna for Bluetooth and WiMAX. , 2015, , .		1
81	Radiation characteristics of Side Fed Bifilar Helix Antenna for L-Band LEO satellites and terrestrial mobile communications. , 2016, , .		1
82	A compact broadband circularly polarized WSS antenna for future 5G communication systems. , 2017, , .		1
83	Compact multiband printed monopole antenna for PCS and WiMAX applications. , 2017, , .		1
84	A 4-element MIMO implementation for laptop computers. , 2017, , .		1
85	A Broadband SIW Antenna for 5G Applications. , 2018, , .		1
86	A Lumped Element Analog of Dual-Stub Microwave Electromagnetically Induced Transparency Resonator. , 2018, , .		1
87	Circularly Polarized C-shaped Monopole Antenna for C-Band Applications. , 2018, , .		1
88	An Invariant Dual-beam Snowflake Antenna for Future 5G Communications. , 2018, , .		1
89	A Broadband 90° Polarization Rotator Metasurface. , 2019, , .		1
90	A Broadband Metasurface for Cross Polarization Conversion Applications. , 2019, , .		1

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91	Electromagnetic modeling of microstrip reflectarrays using scale changing technique. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 205-224.	1.9	0
92	A novel printed RFID tag antenna for specific UHF bands. , 2015, , .		0
93	A compact uniplanar LTE/WWAN antenna for mobile handset applications. , 2016, , .		0
94	A uniplanar frequency reconfigurable MIMO antenna for laptop computer applications. , 2016, , .		0
95	Design of a metamaterial inspired single-cell zeroth order resonant(ZOR) antenna. , 2016, , .		0
96	A compact triple wideband LTE/WWAN/GPS/GLONASS MIMO antenna for tablet computers. , 2016, , .		0
97	Electrically small printed monopole antenna for WLAN and WiMAX applications. , 2017, , .		0
98	A miniaturized frequency selective radome with wide absorption response above X-band. , 2017, , .		0
99	A novel compact folded zeroth-order resonant antenna for Internet of Things USB dongle applications. Electromagnetics, 2020, 40, 244-253.	0.7	0
100	A Tri-Cell Hexagonal Wire Antenna for 5G Applications at 28 GHz Band. , 2020, , .		0
101	A Rotman Lens Inspired Antenna for Unlicensed 60 GHz Millimeter-Wave Communications. , 2020, , .		0
102	Monostatic microwave ellipsometry for material characterization. Waves in Random and Complex Media, 0, , 1-14.	2.7	0