

# Touhidul Alam

## List of Publications by Year in descending order

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374  
papers

6,752  
citations

76196

40  
h-index

118652

62  
g-index

377  
all docs

377  
docs citations

377  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the effect of image enhancement techniques on COVID-19 detection using chest X-ray images. Computers in Biology and Medicine, 2021, 132, 104319.	3.9	521
2	Compact Tapered-Shape Slot Antenna for UWB Applications. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1190-1193.	2.4	211
3	Automatic and Reliable Leaf Disease Detection Using Deep Learning Techniques. AgriEngineering, 2021, 3, 294-312.	1.7	115
4	Dual Band Metamaterial Antenna For LTE/Bluetooth/WiMAX System. Scientific Reports, 2018, 8, 1240.	1.6	97
5	A Miniaturized Antenna with Negative Index Metamaterial Based on Modified SRR and CLS Unit Cell for UWB Microwave Imaging Applications. Materials, 2015, 8, 392-407.	1.3	93
6	DESIGN OF A NOVEL SUPER WIDE BAND CIRCULAR-HEXAGONAL FRACTAL ANTENNA. Progress in Electromagnetics Research, 2013, 139, 229-245.	1.6	89
7	A Near Zero Refractive Index Metamaterial for Electromagnetic Invisibility Cloaking Operation. Materials, 2015, 8, 4790-4804.	1.3	82
8	A Novel High-Gain Dual-Band Antenna for RFID Reader Applications. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 653-656.	2.4	80
9	Monitoring of the Human Body Signal through the Internet of Things (IoT) Based LoRa Wireless Network System. Applied Sciences (Switzerland), 2019, 9, 1884.	1.3	79
10	Development of Electromagnetic Band Gap Structures in the Perspective of Microstrip Antenna Design. International Journal of Antennas and Propagation, 2013, 2013, 1-22.	0.7	78
11	A New Compact Double-Negative Miniaturized Metamaterial for Wideband Operation. Materials, 2016, 9, 830.	1.3	78
12	A Polarization Independent Quasi-TEM Metamaterial Absorber for X and Ku Band Sensing Applications. Sensors, 2018, 18, 4209.	2.1	75
13	A Negative Index Metamaterial-Inspired UWB Antenna with an Integration of Complementary SRR and CLS Unit Cells for Microwave Imaging Sensor Applications. Sensors, 2015, 15, 11601-11627.	2.1	74
14	Microwave Imaging for Breast Tumor Detection Using Uniplanar AMC Based CPW-Fed Microstrip Antenna. IEEE Access, 2018, 6, 44763-44775.	2.6	71
15	DESIGN ANALYSIS OF NEW METAMATERIAL FOR EM ABSORPTION REDUCTION. Progress in Electromagnetics Research, 2012, 124, 119-135.	1.6	70
16	The Design and Analysis of a Novel Split-H-Shaped Metamaterial for Multi-Band Microwave Applications. Materials, 2014, 7, 4994-5011.	1.3	70
17	Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging: To Implement A Wearable Medical Bra. Scientific Reports, 2016, 6, 38906.	1.6	65
18	Dual Band-Notch UWB Antenna With Single Tri-Arm Resonator. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 670-673.	2.4	64

#	ARTICLE	IF	CITATIONS
19	A NOVEL COMPACT SPLIT RING SLOTTED ELECTROMAGNETIC BANDGAP STRUCTURE FOR MICROSTRIP PATCH ANTENNA PERFORMANCE ENHANCEMENT. <i>Progress in Electromagnetics Research</i> , 2012, 130, 389-409.	1.6	59
20	Unidirectional Wideband 3-D Antenna for Human Head-Imaging Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 169-172.	2.4	59
21	DESIGN ANALYSIS OF FERRITE SHEET ATTACHMENT FOR SAR REDUCTION IN HUMAN HEAD. <i>Progress in Electromagnetics Research</i> , 2009, 98, 191-205.	1.6	58
22	A complementary split ring resonator based metamaterial with effective medium ratio for C-band microwave applications. <i>Results in Physics</i> , 2019, 15, 102675.	2.0	58
23	Design of a Dual Band-Notch UWB Slot Antenna by Means of Simple Parasitic Slits. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013, 12, 1412-1415.	2.4	56
24	A Homogeneous Breast Phantom Measurement System with an Improved Modified Microwave Imaging Antenna Sensor. <i>Sensors</i> , 2018, 18, 2962.	2.1	55
25	Quad band metamaterial absorber based on asymmetric circular split ring resonator for multiband microwave applications. <i>Results in Physics</i> , 2020, 19, 103467.	2.0	55
26	DESIGN OF A COMPACT ULTRAWIDEBAND METAMATERIAL ANTENNA BASED ON THE MODIFIED SPLIT-RING RESONATOR AND CAPACITIVELY LOADED STRIPS UNIT CELL. <i>Progress in Electromagnetics Research</i> , 2013, 136, 157-173.	1.6	54
27	A Gap Coupled Hexagonal Split Ring Resonator Based Metamaterial for S-Band and X-Band Microwave Applications. <i>IEEE Access</i> , 2020, 8, 68239-68253.	2.6	54
28	Triple band microwave metamaterial absorber based on double E-shaped symmetric split ring resonators for EMI shielding and stealth applications. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1653-1668.	2.6	53
29	Design and parametric analysis of a wide-angle polarization-insensitive metamaterial absorber with a star shape resonator for optical wavelength applications. <i>Results in Physics</i> , 2020, 18, 103259.	2.0	52
30	A New Wide-Band Double-Negative Metamaterial for C- and S-Band Applications. <i>Materials</i> , 2015, 8, 57-71.	1.3	51
31	Microwave Imaging Sensor Using Compact Metamaterial UWB Antenna with a High Correlation Factor. <i>Materials</i> , 2015, 8, 4631-4651.	1.3	49
32	Ultra-Wideband (UWB) Antenna Sensor Based Microwave Breast Imaging: A Review. <i>Sensors</i> , 2018, 18, 2951.	2.1	46
33	Polarization insensitivity characterization of dual-band perfect metamaterial absorber for K band sensing applications. <i>Scientific Reports</i> , 2021, 11, 17829.	1.6	46
34	Experimental Breast Phantoms for Estimation of Breast Tumor Using Microwave Imaging Systems. <i>IEEE Access</i> , 2018, 6, 78587-78597.	2.6	45
35	Left-Handed Metamaterial-Inspired Unit Cell for S-Band Glucose Sensing Application. <i>Sensors</i> , 2019, 19, 169.	2.1	45
36	A multi-slotted antenna for LTE/5G Sub-6 GHz wireless communication applications. <i>International Journal of Microwave and Wireless Technologies</i> , 2021, 13, 486-496.	1.5	45

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37	A New Metasurface Superstrate Structure for Antenna Performance Enhancement. <i>Materials</i> , 2013, 6, 3226-3240.	1.3	44
38	An Object-Independent ENZ Metamaterial-Based Wideband Electromagnetic Cloak. <i>Scientific Reports</i> , 2016, 6, 33624.	1.6	44
39	A Compact UWB Antenna with Independently Controllable Notch Bands. <i>Sensors</i> , 2019, 19, 1411.	2.1	43
40	Paper-Based Flexible Antenna for Wearable Telemedicine Applications at 2.4 GHz ISM Band. <i>Sensors</i> , 2018, 18, 4214.	2.1	42
41	Wide Bandwidth Angle- and Polarization-Insensitive Symmetric Metamaterial Absorber for X and Ku Band Applications. <i>Scientific Reports</i> , 2020, 10, 10338.	1.6	42
42	Metasurface Loaded High Gain Antenna based Microwave Imaging using Iteratively Corrected Delay Multiply and Sum Algorithm. <i>Scientific Reports</i> , 2019, 9, 17317.	1.6	41
43	Hexagonal Shaped Near Zero Index (NZI) Metamaterial Based MIMO Antenna for Millimeter-Wave Application. <i>IEEE Access</i> , 2020, 8, 181003-181013.	2.6	41
44	A Near-Zero Refractive Index Meta-Surface Structure for Antenna Performance Improvement. <i>Materials</i> , 2013, 6, 5058-5068.	1.3	40
45	Breast Phantom Imaging Using Iteratively Corrected Coherence Factor Delay and Sum. <i>IEEE Access</i> , 2019, 7, 40822-40832.	2.6	40
46	Microwave Breast Phantom Measurement System With Compact Side Slotted Directional Antenna. <i>IEEE Access</i> , 2017, 5, 5321-5330.	2.6	37
47	Polarization insensitive symmetrical structured double negative (DNG) metamaterial absorber for Ku-band sensing applications. <i>Scientific Reports</i> , 2022, 12, 479.	1.6	37
48	A Compact Printed Monopole Antenna With Wideband Circular Polarization. <i>IEEE Access</i> , 2018, 6, 54713-54725.	2.6	36
49	IoT Based Health Monitoring System with LoRa Communication Technology. , 2019, , .		36
50	Compact Ultra-Wideband Monopole Antenna Loaded with Metamaterial. <i>Sensors</i> , 2020, 20, 796.	2.1	36
51	Printed Planar Antenna for Wideband Applications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010, 31, 969.	1.2	35
52	Microstrip Line-fed Printed Planar Monopole Antenna for UWB Applications. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 2415-2422.	1.1	35
53	Detection of Salt and Sugar Contents in Water on the Basis of Dielectric Properties Using Microstrip Antenna-Based Sensor. <i>IEEE Access</i> , 2018, 6, 4118-4126.	2.6	35
54	A Wide Incident Angle, Ultrathin, Polarization-Insensitive Metamaterial Absorber for Optical Wavelength Applications. <i>IEEE Access</i> , 2020, 8, 129525-129541.	2.6	35

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55	A Multi-Band Near Perfect Polarization and Angular Insensitive Metamaterial Absorber With a Simple Octagonal Resonator for Visible Wavelength. <i>IEEE Access</i> , 2021, 9, 117746-117760.	2.6	35
56	Flexible Radio-Frequency Identification (RFID) Tag Antenna for Sensor Applications. <i>Sensors</i> , 2018, 18, 4212.	2.1	34
57	Electrically Compact SRR-Loaded Metamaterial Inspired Quad Band Antenna for Bluetooth/WiFi/WLAN/WiMAX System. <i>Electronics (Switzerland)</i> , 2019, 8, 790.	1.8	34
58	Modified-Segmented Split-Ring Based Polarization and Angle-Insensitive Multi-Band Metamaterial Absorber for X, Ku and K Band Applications. <i>IEEE Access</i> , 2020, 8, 144051-144063.	2.6	34
59	Metamaterial Cell-Based Superstrate towards Bandwidth and Gain Enhancement of Quad-Band CPW-Fed Antenna for Wireless Applications. <i>Sensors</i> , 2020, 20, 457.	2.1	34
60	Metamaterial array based meander line planar antenna for cube satellite communication. <i>Scientific Reports</i> , 2021, 11, 14087.	1.6	34
61	A Compact Ultrawideband Antenna Based on Hexagonal Split-Ring Resonator for pH Sensor Application. <i>Sensors</i> , 2018, 18, 2959.	2.1	33
62	An Octagonal Ring-shaped Parasitic Resonator Based Compact Ultrawideband Antenna for Microwave Imaging Applications. <i>Sensors</i> , 2020, 20, 1354.	2.1	33
63	A Negative Index Metamaterial to Enhance the Performance of Miniaturized UWB Antenna for Microwave Imaging Applications. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1149.	1.3	32
64	Design of Miniaturized Double-Negative Material for Specific Absorption Rate Reduction in Human Head. <i>PLoS ONE</i> , 2014, 9, e109947.	1.1	32
65	Compact Left-Handed Meta-Atom for S-, C- and Ku-Band Application. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1071.	1.3	31
66	Review on Medical Implantable Antenna Technology and Imminent Research Challenges. <i>Sensors</i> , 2021, 21, 3163.	2.1	31
67	Design of High Impedance Electromagnetic Surfaces for Mutual Coupling Reduction in Patch Antenna Array. <i>Materials</i> , 2013, 6, 143-155.	1.3	30
68	Design and analysis of a new composite double negative metamaterial for multi-band communication. <i>Current Applied Physics</i> , 2017, 17, 931-939.	1.1	30
69	Eight-Port Metamaterial Loaded UWB-MIMO Antenna System for 3D System-in-Package Applications. <i>IEEE Access</i> , 2020, 8, 106982-106992.	2.6	30
70	A Shallow U-Net Architecture for Reliably Predicting Blood Pressure (BP) from Photoplethysmogram (PPG) and Electrocardiogram (ECG) Signals. <i>Sensors</i> , 2022, 22, 919.	2.1	30
71	Polarization-insensitive infrared-visible perfect metamaterial absorber and permittivity sensor. <i>Results in Physics</i> , 2019, 14, 102429.	2.0	29
72	Radio Frequency Energy Harvesting Technologies: A Comprehensive Review on Designing, Methodologies, and Potential Applications. <i>Sensors</i> , 2022, 22, 4144.	2.1	29

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73	NOVEL TRIANGULAR METAMATERIAL DESIGN FOR ELECTROMAGNETIC ABSORPTION REDUCTION IN HUMAN HEAD. <i>Progress in Electromagnetics Research</i> , 2013, 141, 463-478.	1.6	28
74	Low specific absorption rate microstrip patch antenna for cellular phone applications. <i>IET Microwaves, Antennas and Propagation</i> , 2015, 9, 1540-1546.	0.7	28
75	A CNN-Based Smart Waste Management System Using TensorFlow Lite and LoRa-GPS Shield in Internet of Things Environment. <i>IEEE Access</i> , 2021, 9, 153560-153574.	2.6	28
76	Five band-notched ultrawide band (UWB) antenna loaded with C-shaped slots. <i>Microwave and Optical Technology Letters</i> , 2015, 57, 1470-1475.	0.9	27
77	Preparation of NiAl <sub>2</sub> O <sub>4</sub> -Based Flexible Substrates for Metamaterials with Negative Dielectric Properties. <i>Scientific Reports</i> , 2018, 8, 14948.	1.6	27
78	Numerical Analysis of Single Negative Broadband Metamaterial Absorber Based on Tri Thin Layer Material in Visible Spectrum for Solar Cell Energy Harvesting. <i>Plasmonics</i> , 2020, 15, 1061-1069.	1.8	27
79	A YOLOv3 Deep Neural Network Model to Detect Brain Tumor in Portable Electromagnetic Imaging System. <i>IEEE Access</i> , 2021, 9, 82647-82660.	2.6	27
80	Polarization and angular insensitive bendable metamaterial absorber for UV to NIR range. <i>Scientific Reports</i> , 2022, 12, 4857.	1.6	27
81	Null Steering of Adaptive Beamforming Using Linear Constraint Minimum Variance Assisted by Particle Swarm Optimization, Dynamic Mutated Artificial Immune System, and Gravitational Search Algorithm. <i>Scientific World Journal</i> , The, 2014, 2014, 1-10.	0.8	26
82	A metamaterial unit cell inspired antenna for mobile wireless applications. <i>Microwave and Optical Technology Letters</i> , 2016, 58, 263-267.	0.9	26
83	Perfect metamaterial absorber with high fractional bandwidth for solar energy harvesting. <i>PLoS ONE</i> , 2018, 13, e0207314.	1.1	26
84	Polarization Independent Metamaterial Absorber with Anti-Reflection Coating Nanoarchitectonics for Visible and Infrared Window Applications. <i>Materials</i> , 2022, 15, 3733.	1.3	26
85	16-Port Non-Planar MIMO Antenna System With Near-Zero-Index (NZI) Metamaterial Decoupling Structure for 5G Applications. <i>IEEE Access</i> , 2020, 8, 157946-157958.	2.6	25
86	Metamaterial sensor based on rectangular enclosed adjacent triple circle split ring resonator with good quality factor for microwave sensing application. <i>Scientific Reports</i> , 2022, 12, 6792.	1.6	25
87	New Compact Dual-Band Circularly Polarized Universal RFID Reader Antenna Using Ramped Convergence Particle Swarm Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 2795-2801.	3.1	24
88	Reduction of 5G cellular network radiation in wireless mobile phone using an asymmetric square shaped passive metamaterial design. <i>Scientific Reports</i> , 2021, 11, 2619.	1.6	24
89	QCovSML: A reliable COVID-19 detection system using CBC biomarkers by a stacking machine learning model. <i>Computers in Biology and Medicine</i> , 2022, 143, 105284.	3.9	24
90	Design of a Novel Double Negative Metamaterial Absorber Atom for Ku and K Band Applications. <i>Electronics (Switzerland)</i> , 2019, 8, 853.	1.8	23

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91	Performance Analysis of a Defected Ground-Structured Antenna Loaded with Stub-Slot for 5G Communication. <i>Sensors</i> , 2019, 19, 2634.	2.1	23
92	A Planar Ultrawideband Patch Antenna Array for Microwave Breast Tumor Detection. <i>Materials</i> , 2020, 13, 4918.	1.3	23
93	Synthesis, Characterization and Development of Energy Harvesting Techniques Incorporated with Antennas: A Review Study. <i>Sensors</i> , 2020, 20, 2772.	2.1	23
94	A tri-band left-handed meta-atom enabled designed with high effective medium ratio for microwave based applications. <i>Results in Physics</i> , 2020, 17, 103032.	2.0	23
95	Quad-Band Polarization-Insensitive Square Split-Ring Resonator (SSRR) with an Inner Jerusalem Cross Metamaterial Absorber for Ku- and K-Band Sensing Applications. <i>Sensors</i> , 2022, 22, 4489.	2.1	23
96	Dynamic Resource Allocation in Hybrid Access Femtocell Network. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	0.8	22
97	A Review on Femtocell and its Diverse Interference Mitigation Techniques in Heterogeneous Network. <i>Wireless Personal Communications</i> , 2014, 78, 85-106.	1.8	22
98	Synthesis and characterization of Mg <sup>2+</sup> -Zn ferrite based flexible microwave composites and its application as SNG metamaterial. <i>Scientific Reports</i> , 2021, 11, 7654.	1.6	22
99	Wide-Oblique-Incident-Angle Stable Polarization-Insensitive Ultra-Wideband Metamaterial Perfect Absorber for Visible Optical Wavelength Applications. <i>Materials</i> , 2022, 15, 2201.	1.3	22
100	Design of a compact dual band microstrip antenna for Ku-band application. , 2009, , .		21
101	Optimization of microstrip patch antenna using Particle swarm optimization with curve fitting. , 2009, , .		21
102	Compact planar antenna for UWB applications. , 2010, , .		21
103	A Double-Negative Metamaterial-Inspired Mobile Wireless Antenna for Electromagnetic Absorption Reduction. <i>Materials</i> , 2015, 8, 4817-4828.	1.3	21
104	Circularly Polarized Broadband Printed Antenna for Wireless Applications. <i>Sensors</i> , 2018, 18, 4261.	2.1	21
105	Square enclosed circle split ring resonator enabled epsilon negative (ENG) near zero index (NZI) metamaterial for gain enhancement of multiband satellite and radar antenna applications. <i>Results in Physics</i> , 2020, 19, 103556.	2.0	21
106	A Wide-Angle, Enhanced Oblique Incidence, Bend-Able Metamaterial Absorber Employed in Visible Region With a Sun Shape Resonator. <i>IEEE Access</i> , 2021, 9, 126466-126480.	2.6	21
107	A deep learning model to classify and detect brain abnormalities in portable microwave based imaging system. <i>Scientific Reports</i> , 2022, 12, 6319.	1.6	21
108	Coplanar Waveguide Fed Printed Antenna with Compact Size for Broadband Wireless Applications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010, 31, 1427-1437.	1.2	20

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109	Printed circular ring antenna for UWB application. , 2010, , .		20
110	Near-zero metamaterial inspired UHF antenna for nanosatellite communication system. Scientific Reports, 2019, 9, 3441.	1.6	20
111	A Portable Electromagnetic Head Imaging System Using Metamaterial Loaded Compact Directional 3D Antenna. IEEE Access, 2021, 9, 50893-50906.	2.6	20
112	Modified double dumbbell-shaped split-ring resonator-based negative permittivity metamaterial for satellite communications with high effective medium ratio. Scientific Reports, 2021, 11, 19331.	1.6	20
113	Gap coupled symmetric split ring resonator based near zero index ENG metamaterial for gain improvement of monopole antenna. Scientific Reports, 2022, 12, 7406.	1.6	20
114	Experimental Breast Phantom Imaging with Metamaterial-Inspired Nine-Antenna Sensor Array. Sensors, 2018, 18, 4427.	2.1	19
115	Digital metamaterial filter for encoding information. Scientific Reports, 2020, 10, 3289.	1.6	19
116	CPW-Fed Super-Wideband Antenna With Modified Vertical Bow-Tie-Shaped Patch for Wireless Sensor Networks. IEEE Access, 2021, 9, 5343-5353.	2.6	19
117	Polarization-independent perfect metamaterial absorber for C, X and, Ku band applications. Journal of Materials Research and Technology, 2021, 15, 3722-3732.	2.6	19
118	Specific absorption rate reduction of multi-band standard mobile antenna with double-band negative metamaterial. Electronics Letters, 2015, 51, 970-971.	0.5	18
119	BIRDS-1 CubeSat Constellation Using Compact UHF Patch Antenna. IEEE Access, 2018, 6, 54282-54294.	2.6	18
120	Metasurface Reflector (MSR) Loading for High Performance Small Microstrip Antenna Design. PLoS ONE, 2015, 10, e0127185.	1.1	18
121	Printed circular disc compact planar antenna for UWB applications. Telecommunication Systems, 2013, 52, 1171.	1.6	17
122	An <sc>ENG</sc> metamaterial based wideband electromagnetic cloak. Microwave and Optical Technology Letters, 2016, 58, 2522-2525.	0.9	17
123	A compact 5G antenna printed on manganese zinc ferrite substrate material. IEICE Electronics Express, 2016, 13, 20160377-20160377.	0.3	17
124	A simple design of planar microstrip antenna on composite material substrate for Ku/K band satellite applications. International Journal of Communication Systems, 2017, 30, e2970.	1.6	17
125	Split quadrilateral miniaturised multiband microstrip patch antenna design for modern communication system. IET Microwaves, Antennas and Propagation, 2017, 11, 1317-1323.	0.7	17
126	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications. PLoS ONE, 2019, 14, e0224478.	1.1	17



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127	Cross coupled interlinked split ring resonator based epsilon negative metamaterial with high effective medium ratio for multiband satellite and radar communications. Results in Physics, 2020, 18, 103296.	2.0	17
128	Angle-insensitive co-polarized metamaterial absorber based on equivalent circuit analysis for dual band WiFi applications. Scientific Reports, 2021, 11, 13791.	1.6	17
129	A two-component NZRI metamaterial based rectangular cloak. AIP Advances, 2015, 5, 107116.	0.6	16
130	A Parasitic Resonator-Based Diamond-Shaped Microstrip Antenna for Microwave Imaging Applications. Electronics (Switzerland), 2019, 8, 434.	1.8	16
131	Low-Profile Slotted Metamaterial Antenna Based on Bi Slot Microstrip Patch for 5G Application. Sensors, 2020, 20, 3323.	2.1	16
132	A new double negative metamaterial for multi-band microwave applications. Applied Physics A: Materials Science and Processing, 2014, 116, 723-733.	1.1	15
133	Computational and experimental analysis of high gain antenna for WLAN/WiMAX applications. Journal of Computational Electronics, 2015, 14, 634-641.	1.3	15
134	Design and absorption analysis of a new multiband split-S-shaped metamaterial. Science and Engineering of Composite Materials, 2017, 24, 139-148.	0.6	15
135	Left-handed metamaterial inspired by joint T-D geometry on flexible NiAl <sub>2</sub> O <sub>4</sub> substrate. PLoS ONE, 2018, 13, e0199150.	1.1	15
136	U-joint Double split O (UDO) shaped with split square metasurface absorber for X and ku band application. Results in Physics, 2019, 15, 102757.	2.0	15
137	Electromagnetic radiation reduction using novel metamaterial for cellular applications. Radiation Physics and Chemistry, 2021, 178, 108976.	1.4	15
138	Rotational symmetry engineered, polarization and incident angle-insensitive, perfect metamaterial absorber for X and Ku band wireless applications. Scientific Reports, 2022, 12, 3740.	1.6	15
139	A miniaturized directional antenna for microwave breast imaging applications. International Journal of Microwave and Wireless Technologies, 2017, 9, 2013-2018.	1.5	14
140	Design and compatibility analysis of a solar panel integrated UHF antenna for nanosatellite space mission. PLoS ONE, 2018, 13, e0205587.	1.1	14
141	Depiction and analysis of a modified theta shaped double negative metamaterial for satellite application. Open Physics, 2018, 16, 839-847.	0.8	14
142	Metamaterial based on an inverse double V loaded complementary square split ring resonator for radar and Wi-Fi applications. Scientific Reports, 2021, 11, 21782.	1.6	14
143	Callisto radio spectrometer construction at universiti kebangsaan malaysia [antennas and propagation around the world]. IEEE Antennas and Propagation Magazine, 2014, 56, 278-288.	1.2	13
144	Sol-gel synthesis of transition-metal doped ferrite compounds with potential flexible, dielectric and electromagnetic properties. RSC Advances, 2016, 6, 84562-84572.	1.7	13

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145	Beam steering of eye shape metamaterial design on dispersive media by FDTD method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2319.	1.2	13
146	A unidirectional 3D antenna for biomedical microwave imaging based detection of abnormality in human body. Microsystem Technologies, 2018, 24, 4991-4996.	1.2	13
147	SNG and DNG meta-absorber with fractional absorption band for sensing application. Scientific Reports, 2020, 10, 13086.	1.6	13
148	Coupled ring split ring resonator (CR-SRR) based epsilon negative metamaterial for multiband wireless communications with high effective medium ratio. Results in Physics, 2020, 18, 103248.	2.0	13
149	Polarization-Independent Ultra-Wideband Metamaterial Absorber for Solar Harvesting at Infrared Regime. Materials, 2020, 13, 2560.	1.3	13
150	Microwave Breast Imaging Using Compressed Sensing Approach of Iteratively Corrected Delay Multiply and Sum Beamforming. Diagnostics, 2021, 11, 470.	1.3	13
151	Realization of frequency hopping characteristics of an epsilon negative metamaterial with high effective medium ratio for multiband microwave applications. Scientific Reports, 2021, 11, 16898.	1.6	13
152	A Wideband Rectangular Microstrip Patch Antenna with Partial Ground Plane for 5G Applications. , 2021, , .		13
153	Design of microstrip antenna for GPS application. , 2008, , .		12
154	A Novel Feeding Technique for a Dual Band Microstrip Patch Antenna. IEICE Transactions on Communications, 2010, E93-B, 2455-2457.	0.4	12
155	Synthesis and fabrication of $(\text{ZnAl}_2\text{O}_4)_x\text{SiO}_2$ thin films to be applied as patch antennas. Journal of Sol-Gel Science and Technology, 2014, 69, 183-192.	1.1	12
156	Inductively tuned modified split ring resonator based quad band epsilon negative (ENG) with near zero index (NZI) metamaterial for multiband antenna performance enhancement. Scientific Reports, 2021, 11, 11950.	1.6	12
157	Specific absorption rate reduction for sub-6 frequency range using polarization dependent metamaterial with high effective medium ratio. Scientific Reports, 2022, 12, 1803.	1.6	12
158	A microstrip-fed reformed rectangular shape slotted patch antenna for simultaneous operation in GPS and WLAN bands. Microwave and Optical Technology Letters, 2015, 57, 2204-2207.	0.9	11
159	Preparation and Characterization of Flexible Substrate Material from Phenyl-Thiophene-2-Carbaldehyde Compound. Materials, 2016, 9, 358.	1.3	11
160	A compact triangular shaped microstrip patch antenna with triangular slotted ground for UWB application. , 2016, , .		11
161	A Uniplanar Left-Handed Metamaterial for Terrestrial Microwave Links. IEEE Microwave and Wireless Components Letters, 2018, 28, 108-110.	2.0	11
162	Resonator-Inspired Metamaterial Sensor: Design and Experimental Validation for Measuring Thickness of Multi-Layered Structures. Sensors, 2018, 18, 4213.	2.1	11

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