

# Touhidul Alam

## List of Publications by Citations

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302  
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377  
ext. papers

5,096  
ext. citations

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avg, IF

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#	Paper	IF	Citations
302	Compact Tapered-Shape Slot Antenna for UWB Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 1190-1193	3.8	136
301	Exploring the effect of image enhancement techniques on COVID-19 detection using chest X-ray images. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 132, 104319	7	127
300	A Miniaturized Antenna with Negative Index Metamaterial Based on Modified SRR and CLS Unit Cell for UWB Microwave Imaging Applications. <i>Materials</i> , <b>2015</b> , 8, 392-407	3.5	71
299	A Near Zero Refractive Index Metamaterial for Electromagnetic Invisibility Cloaking Operation. <i>Materials</i> , <b>2015</b> , 8, 4790-4804	3.5	62
298	A New Compact Double-Negative Miniaturized Metamaterial for Wideband Operation. <i>Materials</i> , <b>2016</b> , 9,	3.5	61
297	The Design and Analysis of a Novel Split-H-Shaped Metamaterial for Multi-Band Microwave Applications. <i>Materials</i> , <b>2014</b> , 7, 4994-5011	3.5	60
296	Dual Band Metamaterial Antenna For LTE/Bluetooth/WiMAX System. <i>Scientific Reports</i> , <b>2018</b> , 8, 1240	4.9	57
295	A Negative Index Metamaterial-Inspired UWB Antenna with an Integration of Complementary SRR and CLS Unit Cells for Microwave Imaging Sensor Applications. <i>Sensors</i> , <b>2015</b> , 15, 11601-27	3.8	55
294	DESIGN OF A NOVEL SUPER WIDE BAND CIRCULAR-HEXAGONAL FRACTAL ANTENNA. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 139, 229-245	3.8	55
293	A Novel High-Gain Dual-Band Antenna for RFID Reader Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2010</b> , 9, 653-656	3.8	53
292	Dual Band-Notch UWB Antenna With Single Tri-Arm Resonator. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 670-673	3.8	50
291	DESIGN ANALYSIS OF NEW METAMATERIAL FOR EM ABSORPTION REDUCTION. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 124, 119-135	3.8	49
290	A Polarization Independent Quasi-TEM Metamaterial Absorber for X and Ku Band Sensing Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	46
289	Monitoring of the Human Body Signal through the Internet of Things (IoT) Based LoRa Wireless Network System. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1884	2.6	40
288	Microwave Imaging for Breast Tumor Detection Using Uniplanar AMC Based CPW-Fed Microstrip Antenna. <i>IEEE Access</i> , <b>2018</b> , 6, 44763-44775	3.5	40
287	Design of a Dual Band-Notch UWB Slot Antenna by Means of Simple Parasitic Slits. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 1412-1415	3.8	39
286	A New Wide-Band Double-Negative Metamaterial for C- and S-Band Applications. <i>Materials</i> , <b>2014</b> , 8, 57-71	3.5	36

285	Development of Electromagnetic Band Gap Structures in the Perspective of Microstrip Antenna Design. <i>International Journal of Antennas and Propagation</i> , <b>2013</b> , 2013, 1-22	1.2	36
284	Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging: To Implement A Wearable Medical Bra. <i>Scientific Reports</i> , <b>2016</b> , 6, 38906	4.9	36
283	A complementary split ring resonator based metamaterial with effective medium ratio for C-band microwave applications. <i>Results in Physics</i> , <b>2019</b> , 15, 102675	3.7	34
282	Microwave Imaging Sensor Using Compact Metamaterial UWB Antenna with a High Correlation Factor. <i>Materials</i> , <b>2015</b> , 8, 4631-4651	3.5	34
281	A NOVEL COMPACT SPLIT RING SLOTTED ELECTROMAGNETIC BANDGAP STRUCTURE FOR MICROSTRIP PATCH ANTENNA PERFORMANCE ENHANCEMENT. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 130, 389-409	3.8	34
280	A Near-Zero Refractive Index Meta-Surface Structure for Antenna Performance Improvement. <i>Materials</i> , <b>2013</b> , 6, 5058-5068	3.5	33
279	A Homogeneous Breast Phantom Measurement System with an Improved Modified Microwave Imaging Antenna Sensor. <i>Sensors</i> , <b>2018</b> , 18,	3.8	33
278	An Object-Independent ENZ Metamaterial-Based Wideband Electromagnetic Cloak. <i>Scientific Reports</i> , <b>2016</b> , 6, 33624	4.9	31
277	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> , <b>2013</b> , 136, 157-173	3.8	29
276	DESIGN ANALYSIS OF FERRITE SHEET ATTACHMENT FOR SAR REDUCTION IN HUMAN HEAD. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 98, 191-205	3.8	29
275	Unidirectional Wideband 3-D Antenna for Human Head-Imaging Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 169-172	3.8	27
274	Left-Handed Metamaterial-Inspired Unit Cell for S-Band Glucose Sensing Application. <i>Sensors</i> , <b>2019</b> , 19,	3.8	27
273	Breast Phantom Imaging Using Iteratively Corrected Coherence Factor Delay and Sum. <i>IEEE Access</i> , <b>2019</b> , 7, 40822-40832	3.5	26
272	Compact Left-Handed Meta-Atom for S-, C- and Ku-Band Application. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1071	2.6	26
271	A New Metasurface Superstrate Structure for Antenna Performance Enhancement. <i>Materials</i> , <b>2013</b> , 6, 3226-3240	3.5	26
270	A Gap Coupled Hexagonal Split Ring Resonator Based Metamaterial for S-Band and X-Band Microwave Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 68239-68253	3.5	26
269	Microwave Breast Phantom Measurement System With Compact Side Slotted Directional Antenna. <i>IEEE Access</i> , <b>2017</b> , 5, 5321-5330	3.5	25
268	Microstrip Line-fed Printed Planar Monopole Antenna for UWB Applications. <i>Arabian Journal for Science and Engineering</i> , <b>2013</b> , 38, 2415-2422		24

267	Experimental Breast Phantoms for Estimation of Breast Tumor Using Microwave Imaging Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 78587-78597	3.5	24
266	Five band-notched ultrawide band (UWB) antenna loaded with C-shaped slots. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1470-1475	1.2	23
265	A Negative Index Metamaterial to Enhance the Performance of Miniaturized UWB Antenna for Microwave Imaging Applications. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1149	2.6	23
264	Design of miniaturized double-negative material for specific absorption rate reduction in human head. <i>PLoS ONE</i> , <b>2014</b> , 9, e109947	3.7	23
263	Metasurface Loaded High Gain Antenna based Microwave Imaging using Iteratively Corrected Delay Multiply and Sum Algorithm. <i>Scientific Reports</i> , <b>2019</b> , 9, 17317	4.9	23
262	Design and analysis of a new composite double negative metamaterial for multi-band communication. <i>Current Applied Physics</i> , <b>2017</b> , 17, 931-939	2.6	22
261	A Compact UWB Antenna with Independently Controllable Notch Bands. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
260	Detection of Salt and Sugar Contents in Water on the Basis of Dielectric Properties Using Microstrip Antenna-Based Sensor. <i>IEEE Access</i> , <b>2018</b> , 6, 4118-4126	3.5	22
259	Ultra-Wideband (UWB) Antenna Sensor Based Microwave Breast Imaging: A Review. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
258	A Compact Ultrawideband Antenna Based on Hexagonal Split-Ring Resonator for pH Sensor Application. <i>Sensors</i> , <b>2018</b> , 18,	3.8	21
257	Wide Bandwidth Angle- and Polarization-Insensitive Symmetric Metamaterial Absorber for X and Ku Band Applications. <i>Scientific Reports</i> , <b>2020</b> , 10, 10338	4.9	20
256	Design of High Impedance Electromagnetic Surfaces for Mutual Coupling Reduction in Patch Antenna Array. <i>Materials</i> , <b>2013</b> , 6, 143-155	3.5	20
255	Low specific absorption rate microstrip patch antenna for cellular phone applications. <i>IET Microwaves, Antennas and Propagation</i> , <b>2015</b> , 9, 1540-1546	1.6	20
254	Printed Planar Antenna for Wideband Applications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2010</b> , 31, 969	2.2	20
253	Flexible Radio-Frequency Identification (RFID) Tag Antenna for Sensor Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	20
252	A Compact Printed Monopole Antenna With Wideband Circular Polarization. <i>IEEE Access</i> , <b>2018</b> , 6, 54713-54725	3.5	20
251	New Compact Dual-Band Circularly Polarized Universal RFID Reader Antenna Using Ramped Convergence Particle Swarm Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 2795-2801	4.9	19
250	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, The</i> , <b>2014</b> , 2014, 724639	2.2	19

249	Automatic and Reliable Leaf Disease Detection Using Deep Learning Techniques. <i>AgriEngineering</i> , <b>2021</b> , 3, 294-312	2.2	19
248	A metamaterial unit cell inspired antenna for mobile wireless applications. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 263-267	1.2	19
247	Preparation of NiAlO-Based Flexible Substrates for Metamaterials with Negative Dielectric Properties. <i>Scientific Reports</i> , <b>2018</b> , 8, 14948	4.9	19
246	Electrically Compact SRR-Loaded Metamaterial Inspired Quad Band Antenna for Bluetooth/WiFi/WLAN/WiMAX System. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 790	2.6	18
245	Perfect metamaterial absorber with high fractional bandwidth for solar energy harvesting. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207314	3.7	18
244	NOVEL TRIANGULAR METAMATERIAL DESIGN FOR ELECTROMAGNETIC ABSORPTION REDUCTION IN HUMAN HEAD. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 141, 463-478	3.8	17
243	. <i>IEEE Access</i> , <b>2020</b> , 8, 106982-106992	3.5	16
242	An Octagonal Ring-shaped Parasitic Resonator Based Compact Ultrawideband Antenna for Microwave Imaging Applications. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
241	Specific absorption rate reduction of multi-standard mobile antenna with double-negative metamaterial. <i>Electronics Letters</i> , <b>2015</b> , 51, 970-971	1.1	15
240	Metamaterial Cell-Based Superstrate towards Bandwidth and Gain Enhancement of Quad-Band CPW-Fed Antenna for Wireless Applications. <i>Sensors</i> , <b>2020</b> , 20,	3.8	15
239	Dynamic resource allocation in hybrid access femtocell network. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 539720	2.2	15
238	Quad band metamaterial absorber based on asymmetric circular split ring resonator for multiband microwave applications. <i>Results in Physics</i> , <b>2020</b> , 19, 103467	3.7	15
237	Paper-Based Flexible Antenna for Wearable Telemedicine Applications at 2.4 GHz ISM Band. <i>Sensors</i> , <b>2018</b> , 18,	3.8	15
236	Compact Ultra-Wideband Monopole Antenna Loaded with Metamaterial. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
235	A Review on Femtocell and its Diverse Interference Mitigation Techniques in Heterogeneous Network. <i>Wireless Personal Communications</i> , <b>2014</b> , 78, 85-106	1.9	14
234	A Double-Negative Metamaterial-Inspired Mobile Wireless Antenna for Electromagnetic Absorption Reduction. <i>Materials</i> , <b>2015</b> , 8, 4817-4828	3.5	14
233	Coplanar Waveguide Fed Printed Antenna with Compact Size for Broadband Wireless Applications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2010</b> , 31, 1427-1437	2.2	14
232	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> , <b>2020</b> , 18, 103259	3.7	14

231	Polarization-insensitive infrared-visible perfect metamaterial absorber and permittivity sensor. <i>Results in Physics</i> , <b>2019</b> , 14, 102429	3.7	13
230	Synthesis, Characterization and Development of Energy Harvesting Techniques Incorporated with Antennas: A Review Study. <i>Sensors</i> , <b>2020</b> , 20,	3.8	13
229	Design of a Novel Double Negative Metamaterial Absorber Atom for Ku and K Band Applications. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 853	2.6	13
228	Optimization of microstrip patch antenna using Particle swarm optimization with curve fitting <b>2009</b> ,		13
227	A Wide Incident Angle, Ultrathin, Polarization-Insensitive Metamaterial Absorber for Optical Wavelength Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 129525-129541	3.5	13
226	Experimental Breast Phantom Imaging with Metamaterial-Inspired Nine-Antenna Sensor Array. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
225	Left-handed metamaterial inspired by joint T-D geometry on flexible NiAl <sub>2</sub> O <sub>4</sub> substrate. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199150	3.7	13
224	A Parasitic Resonator-Based Diamond-Shaped Microstrip Antenna for Microwave Imaging Applications. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 434	2.6	12
223	U-joint Double split O (UDO) shaped with split square metasurface absorber for X and ku band application. <i>Results in Physics</i> , <b>2019</b> , 15, 102757	3.7	12
222	Design of a compact dual band microstrip antenna for Ku-band application <b>2009</b> ,		12
221	Modified-Segmented Split-Ring Based Polarization and Angle-Insensitive Multi-Band Metamaterial Absorber for X, Ku and K Band Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 144051-144063	3.5	12
220	IoT Based Health Monitoring System with LoRa Communication Technology <b>2019</b> ,		12
219	A multi-slotted antenna for LTE/5G Sub-6 GHz wireless communication applications. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2021</b> , 13, 486-496	0.8	12
218	Computational and experimental analysis of high gain antenna for WLAN/WiMAX applications. <i>Journal of Computational Electronics</i> , <b>2015</b> , 14, 634-641	1.8	11
217	A tri-band left-handed meta-atom enabled designed with high effective medium ratio for microwave based applications. <i>Results in Physics</i> , <b>2020</b> , 17, 103032	3.7	11
216	An ENG metamaterial based wideband electromagnetic cloak. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 2522-2525	1.2	11
215	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications. <i>PLoS ONE</i> , <b>2019</b> , 14, e0224478	3.7	11
214	A two-component NZRI metamaterial based rectangular cloak. <i>AIP Advances</i> , <b>2015</b> , 5, 107116	1.5	11

213	Depiction and analysis of a modified theta shaped double negative metamaterial for satellite application. <i>Open Physics</i> , <b>2018</b> , 16, 839-847	1.3	11
212	BIRDS-1 CubeSat Constellation Using Compact UHF Patch Antenna. <i>IEEE Access</i> , <b>2018</b> , 6, 54282-54294	3.5	11
211	Near-zero metamaterial inspired UHF antenna for nanosatellite communication system. <i>Scientific Reports</i> , <b>2019</b> , 9, 3441	4.9	10
210	Sol-gel synthesis of transition-metal doped ferrite compounds with potential flexible, dielectric and electromagnetic properties. <i>RSC Advances</i> , <b>2016</b> , 6, 84562-84572	3.7	10
209	Synthesis and fabrication of (1-x)ZnAl <sub>2</sub> O <sub>4</sub> /xSiO <sub>2</sub> thin films to be applied as patch antennas. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 69, 183-192	2.3	10
208	A new double negative metamaterial for multi-band microwave applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 116, 723-733	2.6	10
207	Slot loaded rectangular patch antenna for dual-band operations on glass-reinforced epoxy laminated inexpensive substrate. <i>Journal of Computational Electronics</i> , <b>2014</b> , 13, 989-995	1.8	10
206	Printed circular ring antenna for UWB application <b>2010</b> ,		10
205	Preparation and Characterization of Flexible Substrate Material from Phenyl-Thiophene-2-Carbaldehyde Compound. <i>Materials</i> , <b>2016</b> , 9,	3.5	10
204	Polarization insensitivity characterization of dual-band perfect metamaterial absorber for K band sensing applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 17829	4.9	10
203	A simple design of planar microstrip antenna on composite material substrate for Ku/K band satellite applications. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e2970	1.7	9
202	Design and absorption analysis of a new multiband split-S-shaped metamaterial. <i>Science and Engineering of Composite Materials</i> , <b>2017</b> , 24, 139-148	1.5	9
201	A miniaturized directional antenna for microwave breast imaging applications. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2017</b> , 9, 2013-2018	0.8	9
200	Performance Analysis of a Defected Ground-Structured Antenna Loaded with Stub-Slot for 5G Communication. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
199	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> , <b>2020</b> , 15, 1061-1069	2.4	9
198	Beam steering of eye shape metamaterial design on dispersive media by FDTD method. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2018</b> , 31, e2319	1	9
197	A compact 5G antenna printed on manganese zinc ferrite substrate material. <i>IEICE Electronics Express</i> , <b>2016</b> , 13, 20160377-20160377	0.5	9
196	A compact meander line elliptic split ring resonator based metamaterial for electromagnetic shielding. <i>Materials Express</i> , <b>2018</b> , 8, 133-140	1.3	9

195	Split quadrilateral miniaturised multiband microstrip patch antenna design for modern communication system. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1317-1323	1.6	9
194	Extending birthday paradox theory to estimate the number of tags in RFID systems. <i>PLoS ONE</i> , <b>2014</b> , 9, e95425	3.7	9
193	Metasurface Reflector (MSR) Loading for High Performance Small Microstrip Antenna Design. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127185	3.7	9
192	. <i>IEEE Access</i> , <b>2020</b> , 8, 181003-181013	3.5	9
191	Circularly Polarized Broadband Printed Antenna for Wireless Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	9
190	Synthesis and characterization of gahnite-based microwave dielectric ceramics (MDC) for microstrip antennas prepared by a sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 74, 557-565	2.3	8
189	A Uniplanar Left-Handed Metamaterial for Terrestrial Microwave Links. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 108-110	2.6	8
188	Effect of Magnesia on Zinc Oxide Stabilized Nano Alumina Ceramic Powder in Sintering Process and its Impact on Mechanical Properties. <i>Procedia Engineering</i> , <b>2013</b> , 68, 723-729		8
187	SNG and DNG meta-absorber with fractional absorption band for sensing application. <i>Scientific Reports</i> , <b>2020</b> , 10, 13086	4.9	8
186	Cross coupled interlinked split ring resonator based epsilon negative metamaterial with high effective medium ratio for multiband satellite and radar communications. <i>Results in Physics</i> , <b>2020</b> , 18, 103296	3.7	8
185	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> , <b>2020</b> , 19, 103556	3.7	8
184	An Experience Oriented-Convergence Improved Gravitational Search Algorithm for Minimum Variance Distortionless Response Beamforming Optimum. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156749	3.7	8
183	A Portable Electromagnetic Head Imaging System Using Metamaterial Loaded Compact Directional 3D Antenna. <i>IEEE Access</i> , <b>2021</b> , 9, 50893-50906	3.5	8
182	A Multi-Band Near Perfect Polarization and Angular Insensitive Metamaterial Absorber With a Simple Octagonal Resonator for Visible Wavelength. <i>IEEE Access</i> , <b>2021</b> , 9, 117746-117760	3.5	8
181	A YOLOv3 Deep Neural Network Model to Detect Brain Tumor in Portable Electromagnetic Imaging System. <i>IEEE Access</i> , <b>2021</b> , 9, 82647-82660	3.5	8
180	Design and compatibility analysis of a solar panel integrated UHF antenna for nanosatellite space mission. <i>PLoS ONE</i> , <b>2018</b> , 13, e0205587	3.7	8
179	A New Low-Profile Inverted A-Shaped Patch Antenna for Multi-band Operations. <i>Wireless Personal Communications</i> , <b>2015</b> , 81, 519-529	1.9	7
178	Digital metamaterial filter for encoding information. <i>Scientific Reports</i> , <b>2020</b> , 10, 3289	4.9	7



177	Effective Medium Ratio Obeying Wideband Left-Handed Miniaturized Meta-atoms for Multi-band Applications. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 1859-1870	1.9	7
176	GPS patch antenna performance by modification of Zn(1-x)CaxAl2O4-based microwave dielectric ceramics. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 71, 477-489	2.3	7
175	A microstrip-fed reformed rectangular shape slotted patch antenna for simultaneous operation in GPS and WLAN bands. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 2204-2207	1.2	7
174	Printed circular disc compact planar antenna for UWB applications. <i>Telecommunication Systems</i> , <b>2011</b> , 52, 1171	2.3	7
173	. <i>IEEE Access</i> , <b>2020</b> , 8, 157946-157958	3.5	7
172	Review on Medical Implantable Antenna Technology and Imminent Research Challenges. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
171	Angle-insensitive co-polarized metamaterial absorber based on equivalent circuit analysis for dual band WiFi applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 13791	4.9	7
170	Metamaterial array based meander line planar antenna for cube satellite communication. <i>Scientific Reports</i> , <b>2021</b> , 11, 14087	4.9	7
169	Electromagnetic radiation reduction using novel metamaterial for cellular applications. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 178, 108976	2.5	7
168	Characterization of TixZn(1-x)Al2O4 thin films by sol-gel method for GPS patch antennae. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 41-45	0.6	6
167	A compact circularly polarized high gain S-band nanosatellite antenna using ramped convergence particle swarm optimization. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1503-1508	1.2	6
166	A Planar Ultrawideband Patch Antenna Array for Microwave Breast Tumor Detection. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
165	A unidirectional 3D antenna for biomedical microwave imaging based detection of abnormality in human body. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 4991-4996	1.7	6
164	Callisto radio spectrometer construction at universiti kebangsaan malaysia [antennas and propagation around the world]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2014</b> , 56, 278-288	1.7	6
163	Development of rain attenuation model for Southeast Asia equatorial climate. <i>IET Communications</i> , <b>2013</b> , 7, 1008-1014	1.3	6
162	Compact planar antenna for UWB applications <b>2010</b> ,		6
161	Design analysis of compact dual-band microstrip RFID reader antenna <b>2009</b> ,		6
160	Polarization insensitive symmetrical structured double negative (DNG) metamaterial absorber for Ku-band sensing applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 479	4.9	6

159	Synthesis and characterization of Mg-Zn ferrite based flexible microwave composites and its application as SNG metamaterial. <i>Scientific Reports</i> , <b>2021</b> , 11, 7654	4.9	6
158	<b>2016</b> ,		6
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155	A Solar Panel-Integrated Modified Planner Inverted F Antenna for Low Earth Orbit Remote Sensing Nanosatellite Communication System. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
154	EM absorption reduction in wireless mobile antenna using printed paper-based metamaterial. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	5
153	Low-Profile Slotted Metamaterial Antenna Based on Bi Slot Microstrip Patch for 5G Application. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
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151	Azimuth Null-Reduced Radiation Pattern, Ultralow Profile, Dual-Wideband and Low Passive Intermodulation Ceiling Mount Antenna for Long Term Evolution Application. <i>IEEE Access</i> , <b>2019</b> , 7, 114761-114777	2.5	5
150	Miniaturized modified circular patch monopole antenna on ceramic-polytetrafluoroethylene composite material substrate. <i>Journal of Computational Electronics</i> , <b>2014</b> , 13, 211-216	1.8	5
149	Dual elliptical patch antenna design on low cost epoxy resin polymer substrate material. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2015</b> , 49, 23-29	0.4	5
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145	Design of Split Hexagonal Patch Array Shaped Nano-metaabsorber with Ultra-wideband Absorption for Visible and UV Spectrum Application. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 393	5	5
144	Wideband Linearly Polarized Printed Monopole Antenna for C-Band. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 205-212	0.2	5
143	Stochastic Leader Gravitational Search Algorithm for Enhanced Adaptive Beamforming Technique. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140526	3.7	5
142	Coupled ring split ring resonator (CR-SRR) based epsilon negative metamaterial for multiband wireless communications with high effective medium ratio. <i>Results in Physics</i> , <b>2020</b> , 18, 103248	3.7	5

141	Penta band single negative meta-atom absorber designed on square enclosed star-shaped modified split ring resonator for S-, C-, X- and Ku- bands microwave applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 8784	4.9	5
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138	Depiction and analysis of a modified H-shaped double-negative meta atom for satellite communication. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2018</b> , 10, 1155-1165	0.8	5
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136	Effect on structural, optical and dielectric properties of mixed (1-x)ZnFe <sub>2</sub> O <sub>4</sub> -SiO <sub>2</sub> as microwave dielectric ceramic material. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 77, 218-227	2.3	4
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129	A Printed Xi-Shaped Left-Handed Metamaterial on Low-Cost Flexible Photo Paper. <i>Materials</i> , <b>2017</b> , 10,	3.5	4
128	Octagonal shaped circular polarized C-band antenna for small satellite communication <b>2015</b> ,		4
127	A novel user classification method for femtocell network by using affinity propagation algorithm and artificial neural network. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 253787	2.2	4
126	Compact planar antenna with dual band-notched characteristics for UWB applications <b>2011</b> ,		4
125	<b>2008</b> ,		4
124	Design of broadband multi-slotted microstrip patch antenna for wireless system <b>2008</b> ,		4

123	Design of microstrip antenna for GPS application <b>2008</b> ,		4
122	Polarization-independent perfect metamaterial absorber for C, X and, Ku band applications. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 3722-3732	5.5	4
121	Parametric Analysis of Negative and Positive Refractive Index Lens Antenna by ANSYS HFSS. <i>International Journal of Antennas and Propagation</i> , <b>2020</b> , 2020, 1-11	1.2	4
120	Microwave Breast Imaging Using Compressed Sensing Approach of Iteratively Corrected Delay Multiply and Sum Beamforming. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	4
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117	A Dual-Band Antenna With Dual-Circular Polarization for Nanosatellite Payload Application. <i>IEEE Access</i> , <b>2018</b> , 6, 78521-78529	3.5	4
116	Microwave Imaging Sensor Using Low Profile Modified Stacked Type Planar Inverted F Antenna. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
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106	A new I slotted compact microstrip antenna for L1 & L2 bands <b>2011</b> ,		3

105	Effects of Dielectric Values and Substrate Materials on Electromagnetic (EM) Absorption in Human Head. <i>Frequenz</i> , <b>2012</b> , 66,	0.6	3
104	Reduction of specific absorption rate (SAR) in the human head with materials and metamaterial <b>2009</b> ,		3
103	Ultrawideband EH shaped stack patch antenna for wireless communications <b>2009</b> ,		3
102	Segmentation analysis on magnetic resonance imaging (MRI) with different clustering techniques: Wavelet and BEMD <b>2016</b> ,		3
101	Bird Face Microstrip Printed Monopole Antenna Design for Ultra Wide Band Applications. <i>Frequenz</i> , <b>2016</b> , 70,	0.6	3
100	Human Brain Tumor Detection Using CPW Fed UWB Vivaldi Antenna <b>2019</b> ,		3
99	A New Split Pitch Square Shape Metamaterial Absorber for X band Application <b>2019</b> ,		3
98	CPW-Fed Super-Wideband Antenna With Modified Vertical Bow-Tie-Shaped Patch for Wireless Sensor Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 5343-5353	3.5	3
97	Symmetric square shaped metamaterial structure with quintuple resonance frequencies for S, C, X and Ku band applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 4270	4.9	3
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94	Polarization and angular insensitive bendable metamaterial absorber for UV to NIR range.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4857	4.9	3
93	A deep learning model to classify and detect brain abnormalities in portable microwave based imaging system.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6319	4.9	3
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91	A combined double H-shaped microstrip patch antenna for X-band operation <b>2017</b> ,		2
90	Automatic QRS Onset Detection of ECG Signal using Secant Line Slope Formula <b>2019</b> ,		2
89	Applying Cubic Spline Method to Estimate the Number of RFID Tags in Error-Prone Communication Channels. <i>Wireless Personal Communications</i> , <b>2015</b> , 83, 361-382	1.9	2
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87	A UHF CPW-fed patch antenna for nanosatellite store and forward mission. <i>Microsystem Technologies</i> , <b>2020</b> , 26, 2399-2405	1.7	2
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85	Left-handed meta-surface loaded with ring resonator modelling for satellite application. <i>International Journal of Satellite Communications and Networking</i> , <b>2018</b> , 36, 352-360	1.7	2
84	A corded shape printed wideband antenna design for multi-standard mobile applications. <i>Telecommunication Systems</i> , <b>2016</b> , 62, 511-518	2.3	2
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82	Nickel Particle-Based Compact Flexible Antenna for Modern Communication Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 787	2.6	2
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76	A novel wideband antenna for dual band WLAN application <b>2010</b> ,		2
75	Assessment of specific absorption rate (SAR) and temperature increases in the human head of portable telephones <b>2010</b> ,		2
74	Numerical analysis of aluminium sheet for SAR reduction <b>2011</b> ,		2
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68	A compact square-shaped left-handed passive metamaterial with optimized quintuple resonance frequencies for satellite applications. <i>Chinese Journal of Physics</i> , <b>2020</b> , 67, 360-375	3.5	2
67	Analysis of EM absorption reduction using paper based negative indexed metamaterial shielding <b>2016</b> ,		2
66	An ITO Based High Gain Optically Transparent Wide Band Microstrip Antenna for K Band Satellite Communication <b>2019</b> ,		2
65	Metamaterial Inspired High Gain Antenna for Microwave Breast Imaging <b>2019</b> ,		2
64	A Novel Miniaturized Coplanar Waveguide Fed Tapered Slot Ultra Wide Band Vivaldi Antenna For Microwave Imaging Applications <b>2019</b> ,		2
63	Wide-Oblique-Incident-Angle Stable Polarization-Insensitive Ultra-Wideband Metamaterial Perfect Absorber for Visible Optical Wavelength Applications.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
62	Metamaterial sensor based on rectangular enclosed adjacent triple circle split ring resonator with good quality factor for microwave sensing application.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6792	4.9	2
61	Polarization insensitive dual band metamaterial with absorptance for 5G sub-6GHz applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8495	4.9	2
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57	Effect of lateral Gate Design on the Performance of Junctionless Lateral Gate Transistors. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 538	2.6	1
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55	Broadband Triangle Shape Printed Antenna for Mobile Wireless Communication. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 287-294	0.2	1
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53	A Compact SWB Antenna Using Parasitic Strip <b>2018</b> , 215-223		1
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50	Dual band printed quasi-yagi antenna for RFID and WLAN applications. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 2655-2657	1.2	1
49	Design and Experimental Evaluation of Modified Square Loop Feeding for UHF RFID Tags. <i>PLoS ONE</i> , <b>2015</b> , 10, e0132530	3.7	1
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46	Effect of Parasitic Element on 408 MHz Antenna for Radio Astronomy Application. <i>International Journal of Antennas and Propagation</i> , <b>2014</b> , 2014, 1-4	1.2	1
45	Printed microstrip- fed circular patch antenna for wireless communication <b>2014</b> ,		1
44	Effects of substrate material and dielectric properties on electromagnetic energy absorption over GSM bands <b>2012</b> ,		1
43	Scattering phase performance of varactor diode across ring& gap reconfigurable reflectarray element <b>2013</b> ,		1
42	Compact printed ultra-wideband antenna with dual band- notch characteristics <b>2011</b> ,		1
41	An efficient FPGA based prototyping platform for MIMO decoding <b>2009</b> ,		1
40	Omnidirectional Wideband Slotted Antenna for Human Head Imaging <b>2020</b> ,		1
39	Symmetric resonator based tunable epsilon negative near zero index metamaterial with high effective medium ratio for multiband wireless applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 21842	4.9	1
38	Design of High Gain Microstrip Array Antenna and Beam Steering for X Band RADAR Application <b>2020</b> ,		1
37	Ultra-wideband monopole antenna with U and L shaped slotted patch for applications in 5G and short distance wireless communications. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2021</b> , 66, 159-180	0.4	1
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35	A quadrilateral shape broadband antenna for wireless application. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2016</b> , 50, 45-49	0.4	1
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33	Depiction of a Circulated Double Psi-Shaped Microstrip Antenna for Ku-Band Satellite Applications <b>2018,</b>		1
32	Double-split labyrinth resonator with defective ground system for wide-band band-stop filter application. <i>AIP Advances</i> , <b>2018</b> , 8, 085127	1.5	1
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28	HipXNet: Deep Learning Approaches to Detect Aseptic Loos-ening of Hip Implants using X-Ray Images. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
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25	Design and optimization of LTE 1800 MIMO antenna. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 725806	2.2	0
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19	. <i>IEEE Access</i> , <b>2021</b> , 9, 59148-59159	3.5	0
18	Rotational symmetry engineered, polarization and incident angle-insensitive, perfect metamaterial absorber for X and Ku band wireless applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3740	4.9	0
17	Wide-angle broadband polarization independent bend-able nano-meta absorber employed in optical wavelength. <i>Optical Materials</i> , <b>2022</b> , 126, 112174	3.3	0
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14	An angular stable triple-band anisotropic cross-polarization conversion metasurface. <i>Results in Physics</i> , <b>2022</b> , 37, 105564	3.7	○
13	Dual square split ring enclosed spiral shaped hybrid metamaterial resonator with size miniaturisation for microwave wireless applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8028	4.9	○
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11	Performance analysis of commercial audio video streaming product using metamaterial antenna. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 2163-2168	1.2	
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2	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications <b>2019</b> , 14, e0224478		
1	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications <b>2019</b> , 14, e0224478		