

# Touhidul Alam

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

302  
papers

3,294  
citations

27  
h-index

42  
g-index

377  
ext. papers

5,096  
ext. citations

2.8  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
302	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
301	Specific absorption rate reduction for sub-6 frequency range using polarization dependent metamaterial with high effective medium ratio.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1803	4.9	0
300	QCovSML: A reliable COVID-19 detection system using CBC biomarkers by a stacking machine learning model.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105284	7	5
299	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
298	Polarization and angular insensitive bendable metamaterial absorber for UV to NIR range.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4857	4.9	3
297	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
296	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
295	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> , <b>2022</b> , 18, 1653-1668	5.5	4
294	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
293	Wide bandwidth enriched symmetric hexagonal split ring resonator based triple band negative permittivity metamaterial for satellite and Wi-Fi applications. <i>Results in Physics</i> , <b>2022</b> , 37, 105511	3.7	1
292	HipXNet: Deep Learning Approaches to Detect Aseptic Loosening of Hip Implants using X-Ray Images. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
291	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
290	Frequency Integration of Dual-band Hexagonal Metamaterial Resonator antenna for Wi-Fi and 5G Wireless Communication. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2250, 012001	0.3	0
289	A dual-band CPW-fed miniature planar antenna for S-, C-, WiMAX, WLAN, UWB, and X-band applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7584	4.9	0
288	Gap coupled symmetric split ring resonator based near zero index ENG metamaterial for gain improvement of monopole antenna.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7406	4.9	1
287	An angular stable triple-band anisotropic cross-polarization conversion metasurface. <i>Results in Physics</i> , <b>2022</b> , 37, 105564	3.7	0
286	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	0

285	Polarization insensitive dual band metamaterial with absorptance for 5G sub-6GHz applications.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8495	4.9	2
284	Radio Frequency Energy Harvesting Technologies: A Comprehensive Review on Designing, Methodologies, and Potential Applications. <i>Sensors</i> , <b>2022</b> , 22, 4144	3.8	4
283	Polarization Independent Metamaterial Absorber with Anti-Reflection Coating Nanoarchitectonics for Visible and Infrared Window Applications. <i>Materials</i> , <b>2022</b> , 15, 3733	3.5	1
282	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
281	Metamaterial based on an inverse double V loaded complementary square split ring resonator for radar and Wi-Fi applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 21782	4.9	2
280	Experimental tissue mimicking human head phantom for estimation of stroke using IC-CF-DMAS algorithm in microwave based imaging system. <i>Scientific Reports</i> , <b>2021</b> , 11, 22015	4.9	
279	A CNN-Based Smart Waste Management System Using TensorFlow Lite and LoRa-GPS Shield in Internet of Things Environment. <i>IEEE Access</i> , <b>2021</b> , 9, 153560-153574	3.5	2
278	Wireless Charging of Electric Vehicle While Driving. <i>IEEE Access</i> , <b>2021</b> , 9, 157973-157983	3.5	0
277	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
276	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
275	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
274	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
273	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
272	Review on Medical Implantable Antenna Technology and Imminent Research Challenges. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
271	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
270	Automatic and Reliable Leaf Disease Detection Using Deep Learning Techniques. <i>AgriEngineering</i> , <b>2021</b> , 3, 294-312	2.2	19
269	Inductively tuned modified split ring resonator based quad band epsilon negative (ENG) with near zero index (NZI) metamaterial for multiband antenna performance enhancement. <i>Scientific Reports</i> , <b>2021</b> , 11, 11950	4.9	4
268	Polarization-independent multiband double-negative metamaterial through ferrite-based flexible substrate with tunable microwave dielectric properties. <i>Results in Physics</i> , <b>2021</b> , 25, 104214	3.7	1

267	An octa-band planar monopole antenna for portable communication devices. <i>Scientific Reports</i> , <b>2021</b> , 11, 15298	4.9	0
266	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
265	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
264	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
263	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
262	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
261	Reduction of 5G cellular network radiation in wireless mobile phone using an asymmetric square shaped passive metamaterial design. <i>Scientific Reports</i> , <b>2021</b> , 11, 2619	4.9	6
260	Linear regression of sensitivity for meander line parasitic resonator based on ENG metamaterial in the application of sensing. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 10, 1103-1121	5.5	4
259	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
258	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
257	Metamaterial array based meander line planar antenna for cube satellite communication. <i>Scientific Reports</i> , <b>2021</b> , 11, 14087	4.9	7
256	Parallel LC shaped metamaterial resonator for C and X band satellite applications with wider bandwidth. <i>Scientific Reports</i> , <b>2021</b> , 11, 16247	4.9	3
255	A double hollow rectangular-shaped patch and with the slotted ground plane monopole wideband antenna for microwave head imaging applications. <i>International Journal of Communication Systems</i> , <b>2021</b> , 34, e4958	1.7	0
254	Realization of frequency hopping characteristics of an epsilon negative metamaterial with high effective medium ratio for multiband microwave applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 16898	4.9	4
253	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
252	Modified double dumbbell-shaped split-ring resonator-based negative permittivity metamaterial for satellite communications with high effective medium ratio. <i>Scientific Reports</i> , <b>2021</b> , 11, 19331	4.9	5
251	A dual-band polarization-independent left-handed symmetrical metamaterial for communication system application. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 731-744	5.5	1
250	A Wide-Angle, Enhanced Oblique Incidence, Bend-Able Metamaterial Absorber Employed in Visible Region With a Sun Shape Resonator. <i>IEEE Access</i> , <b>2021</b> , 9, 126466-126480	3.5	3

249	. <i>IEEE Access</i> , <b>2021</b> , 9, 59148-59159	3.5	0
248	A dielectric resonator based line stripe miniaturized ultra-wideband antenna for fifth-generation applications. <i>International Journal of Communication Systems</i> , <b>2021</b> , 34, e4740	1.7	1
247	Electromagnetic radiation reduction using novel metamaterial for cellular applications. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 178, 108976	2.5	7
246	A Planar Ultrawideband Patch Antenna Array for Microwave Breast Tumor Detection. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
245	Synthesis, Characterization and Development of Energy Harvesting Techniques Incorporated with Antennas: A Review Study. <i>Sensors</i> , <b>2020</b> , 20,	3.8	13
244	. <i>IEEE Access</i> , <b>2020</b> , 8, 106982-106992	3.5	16
243	Polarization-Independent Ultra-Wideband Metamaterial Absorber for Solar Harvesting at Infrared Regime. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
242	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
241	An Octagonal Ring-shaped Parasitic Resonator Based Compact Ultrawideband Antenna for Microwave Imaging Applications. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
240	Low-Profile Slotted Metamaterial Antenna Based on Bi Slot Microstrip Patch for 5G Application. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
239	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
238	A compact skull-shaped defected ground super wideband microstrip monopole antenna for short-distance wireless communication. <i>International Journal of Communication Systems</i> , <b>2020</b> , 33, e4527 <sup>1.7</sup>	1.7	2
237	Digital metamaterial filter for encoding information. <i>Scientific Reports</i> , <b>2020</b> , 10, 3289	4.9	7
236	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
235	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
234	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
233	Compact Ultra-Wideband Monopole Antenna Loaded with Metamaterial. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
232	Omnidirectional Wideband Slotted Antenna for Human Head Imaging <b>2020</b> ,		1

231	Design of High Gain Microstrip Array Antenna and Beam Steering for X Band RADAR Application <b>2020,</b>		1
230	. <i>IEEE Access</i> , <b>2020</b> , 8, 181003-181013	3.5	9
229	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
228	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
227	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
226	SNG and DNG meta-absorber with fractional absorption band for sensing application. <i>Scientific Reports</i> , <b>2020</b> , 10, 13086	4.9	8
225	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
224	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
223	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
222	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
221	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
220	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
219	. <i>IEEE Access</i> , <b>2020</b> , 8, 157946-157958	3.5	7
218	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
217	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
216	Polarization-insensitive infrared-visible perfect metamaterial absorber and permittivity sensor. <i>Results in Physics</i> , <b>2019</b> , 14, 102429	3.7	13
215	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
214	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

213	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
212	Automatic QRS Onset Detection of ECG Signal using Secant Line Slope Formula <b>2019</b> ,		2
211	A Parasitic Resonator-Based Diamond-Shaped Microstrip Antenna for Microwave Imaging Applications. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 434	2.6	12
210	Near-zero metamaterial inspired UHF antenna for nanosatellite communication system. <i>Scientific Reports</i> , <b>2019</b> , 9, 3441	4.9	10
209	A Compact UWB Antenna with Independently Controllable Notch Bands. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
208	Breast Phantom Imaging Using Iteratively Corrected Coherence Factor Delay and Sum. <i>IEEE Access</i> , <b>2019</b> , 7, 40822-40832	3.5	26
207	Thin-Layer Dielectric and Left-Handed Metamaterial Stacked Compact Triband Antenna for 2 GHz to 4 GHz Wireless Networks. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 3979-3990	1.9	3
206	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, 114767-114777	2.5	5
205	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
204	Nickel Particle-Based Compact Flexible Antenna for Modern Communication Systems. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 787	2.6	2
203	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
202	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
201	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
200	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
199	An ITO Based High Gain Optically Transparent Wide Band Microstrip Antenna for K Band Satellite Communication <b>2019</b> ,		2
198	Metamaterial Inspired High Gain Antenna for Microwave Breast Imaging <b>2019</b> ,		2
197	Multilayer Base Station Antenna at 3.5 GHz for Future 5G Indoor Systems <b>2019</b> ,		1
196	A Novel Miniaturized Coplanar Waveguide Fed Tapered Slot Ultra Wide Band Vivaldi Antenna For Microwave Imaging Applications <b>2019</b> ,		2

195	Human Brain Tumor Detection Using CPW Fed UWB Vivaldi Antenna <b>2019</b> ,		3
194	IoT Based Health Monitoring System with LoRa Communication Technology <b>2019</b> ,		12
193	A New Split Pitch Square Shape Metamaterial Absorber for X band Application <b>2019</b> ,		3
192	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
191	Determination of salinity and sugar concentration using microwave sensor. <i>Microwave and Optical Technology Letters</i> , <b>2019</b> , 61, 361-364	1.2	5
190	Left-Handed Metamaterial-Inspired Unit Cell for S-Band Glucose Sensing Application. <i>Sensors</i> , <b>2019</b> , 19,	3.8	27
189	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications <b>2019</b> , 14, e0224478		
188	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications <b>2019</b> , 14, e0224478		
187	Left-handed metamaterial bandpass filter for GPS, Earth Exploration-Satellite and WiMAX frequency sensing applications <b>2019</b> , 14, e0224478		
186	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
185	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
184	Flexible paper substrate based wide band NRI metamaterial for X-band application. <i>Microwave and Optical Technology Letters</i> , <b>2018</b> , 60, 1309-1312	1.2	4
183	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
182	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
181	Dual Band Metamaterial Antenna For LTE/Bluetooth/WiMAX System. <i>Scientific Reports</i> , <b>2018</b> , 8, 1240	4.9	57
180	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
179	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
178	Design and analysis with different substrate materials of a new metamaterial for satellite applications. <i>Science and Engineering of Composite Materials</i> , <b>2018</b> , 25, 59-66	1.5	5



177	Open Loop Resonator-Based Triple Passband Filter for 1.5 GHz, 2.45 GHz and 3.65 GHz Applications. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 6153-6162	1.9	1
176	A Compact SWB Antenna Using Parasitic Strip <b>2018</b> , 215-223		1
175	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
174	Enhanced 3dB AR beamwidth metamaterial antenna for nanosatellite payload communication system. <i>Electronics Letters</i> , <b>2018</b> , 54, 1104-1106	1.1	2
173	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
172	An Effective Medium Ratio Obeying Wideband Left-Handed Meta-Atom for Multiband Applications <b>2018</b> , 295-303		
171	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
170	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
169	Perfect metamaterial absorber with high fractional bandwidth for solar energy harvesting. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207314	3.7	18
168	Depiction of a Circulated Double Psi-Shaped Microstrip Antenna for Ku-Band Satellite Applications <b>2018</b> ,		1
167	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
166	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
165	Experimental Breast Phantom Imaging with Metamaterial-Inspired Nine-Antenna Sensor Array. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
164	Paper-Based Flexible Antenna for Wearable Telemedicine Applications at 2.4 GHz ISM Band. <i>Sensors</i> , <b>2018</b> , 18,	3.8	15
163	Resonator-Inspired Metamaterial Sensor: Design and Experimental Validation for Measuring Thickness of Multi-Layered Structures. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
162	A Polarization Independent Quasi-TEM Metamaterial Absorber for X and Ku Band Sensing Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	46
161	Circularly Polarized Broadband Printed Antenna for Wireless Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	9
160	Flexible Radio-Frequency Identification (RFID) Tag Antenna for Sensor Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	20

159	Microwave Imaging Sensor Using Low Profile Modified Stacked Type Planar Inverted F Antenna. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
158	Preparation of NiAlO-Based Flexible Substrates for Metamaterials with Negative Dielectric Properties. <i>Scientific Reports</i> , <b>2018</b> , 8, 14948	4.9	19
157	BIRDS-1 CubeSat Constellation Using Compact UHF Patch Antenna. <i>IEEE Access</i> , <b>2018</b> , 6, 54282-54294	3.5	11
156	A Compact Printed Monopole Antenna With Wideband Circular Polarization. <i>IEEE Access</i> , <b>2018</b> , 6, 54713-54725	3.5	20
155	A Compact Ultrawideband Antenna Based on Hexagonal Split-Ring Resonator for pH Sensor Application. <i>Sensors</i> , <b>2018</b> , 18,	3.8	21
154	Performance analysis of a 3D unidirectional antenna opted for biomedical microwave imaging. <i>Microwave and Optical Technology Letters</i> , <b>2018</b> , 60, 2849-2853	1.2	
153	A Homogeneous Breast Phantom Measurement System with an Improved Modified Microwave Imaging Antenna Sensor. <i>Sensors</i> , <b>2018</b> , 18,	3.8	33
152	Performance analysis of an S-band antenna for nanosatellite payloads communication system. <i>Microwave and Optical Technology Letters</i> , <b>2018</b> , 60, 2817-2820	1.2	
151	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
150	Ultra-Wideband (UWB) Antenna Sensor Based Microwave Breast Imaging: A Review. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
149	A Solar Panel-Integrated Modified Planar Inverted F Antenna for Low Earth Orbit Remote Sensing Nanosatellite Communication System. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
148	Left-Handed Network-Shaped Metamaterial for Visible Frequency <b>2018</b> , 485-494		
147	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
146	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
145	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
144	Design of a compact UWB antenna with a partial ground plane on epoxy woven glass material. <i>Science and Engineering of Composite Materials</i> , <b>2017</b> , 24, 73-79	1.5	1
143	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
142	Microstrip line-fed monopole antenna on an epoxy-resin-reinforced woven-glass material for super wideband applications. <i>Science and Engineering of Composite Materials</i> , <b>2017</b> , 24, 361-370	1.5	

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140	A novel biaxial double-negative metamaterial for electromagnetic rectangular cloaking operation. <i>Science and Engineering of Composite Materials</i> , <b>2017</b> , 24, 335-343	1.5	3
139	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
138	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
137	Specific absorption rate (SAR) analysis using plastic substrate based negative indexed metamaterial shielding <b>2017</b> ,		1
136	A combined double H-shaped microstrip patch antenna for X-band operation <b>2017</b> ,		2
135	Microwave Breast Phantom Measurement System With Compact Side Slotted Directional Antenna. <i>IEEE Access</i> , <b>2017</b> , 5, 5321-5330	3.5	25
134	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
133	A triangular coupled-resonator antenna for ultra-wideband applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	3
132	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
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130	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	
129	A new miniaturized negative-index meta-atom for tri-band applications. <i>Open Physics</i> , <b>2017</b> , 15, 464-471	1.3	2
128	A 3D directional antenna for S band small satellite communication <b>2017</b> ,		2
127	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
126	A Printed Xi-Shaped Left-Handed Metamaterial on Low-Cost Flexible Photo Paper. <i>Materials</i> , <b>2017</b> , 10,	3.5	4
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124	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

123	Effect on structural, optical and dielectric properties of mixed $(1-x)\text{ZnFe}_2\text{O}_4/x\text{SiO}_2$ as microwave dielectric ceramic material. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 77, 218-227	2.3	4
122	Analysis of radio astronomy bands using CALLISTO spectrometer at Malaysia-UKM station. <i>Experimental Astronomy</i> , <b>2016</b> , 41, 185-195	1.3	2
121	Design and performance analysis of small-sized multiband microstrip patch antenna on custom-made biopolymer substrate. <i>Science and Engineering of Composite Materials</i> , <b>2016</b> , 23, 729-735	1.5	1
120	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
119	An ENG metamaterial based wideband electromagnetic cloak. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 2522-2525	1.2	11
118	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
117	An Object-Independent ENZ Metamaterial-Based Wideband Electromagnetic Cloak. <i>Scientific Reports</i> , <b>2016</b> , 6, 33624	4.9	31
116	A compact disc-shaped super wideband patch antenna with a structure of parasitic element. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2016</b> , 50, 11-28	0.4	4
115	Specific absorption rate analysis of broadband mobile antenna with negative index metamaterial. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	4
114	Microwave dielectric properties of $\text{Mn}_x\text{Zn}_{(1-x)}\text{Fe}_2\text{O}_4$ ceramics and their compatibility with patch antenna. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 77, 470-479	2.3	4
113	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
112	Preparation and Characterization of Flexible Substrate Material from Phenyl-Thiophene-2-Carbaldehyde Compound. <i>Materials</i> , <b>2016</b> , 9,	3.5	10
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110	A New Compact Double-Negative Miniaturized Metamaterial for Wideband Operation. <i>Materials</i> , <b>2016</b> , 9,	3.5	61
109	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
108	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
107	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
106	Hexa band mimo antenna with neutralization line for LTE mobile device application. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 1198-1204	1.2	5

105	Analysis of EM absorption reduction using paper based negative indexed metamaterial shielding <b>2016,</b>		2
104	<b>2016,</b>		6
103	Segmentation analysis on magnetic resonance imaging (MRI) with different clustering techniques: Wavelet and BEMD <b>2016,</b>		3
102	Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging: To Implement A Wearable Medical Bra. <i>Scientific Reports, 2016, 6, 38906</i>	4.9	36
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96	Specific absorption rate reduction of multi-standard mobile antenna with double-negative metamaterial. <i>Electronics Letters, 2015, 51, 970-971</i>	1.1	15
95	A Miniaturized Antenna with Negative Index Metamaterial Based on Modified SRR and CLS Unit Cell for UWB Microwave Imaging Applications. <i>Materials, 2015, 8, 392-407</i>	3.5	71
94	Computational and experimental analysis of high gain antenna for WLAN/WiMAX applications. <i>Journal of Computational Electronics, 2015, 14, 634-641</i>	1.8	11
93	Five band-notched ultrawide band (UWB) antenna loaded with C-shaped slots. <i>Microwave and Optical Technology Letters, 2015, 57, 1470-1475</i>	1.2	23
92	A compact circularly polarized high gain S-band nanosatellite antenna using ramped convergence particle swarm optimization. <i>Microwave and Optical Technology Letters, 2015, 57, 1503-1508</i>	1.2	6
91	Broadband Triangle Shape Printed Antenna for Mobile Wireless Communication. <i>Lecture Notes in Electrical Engineering, 2015, 287-294</i>	0.2	1
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86	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
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82	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
81	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
80	A Near Zero Refractive Index Metamaterial for Electromagnetic Invisibility Cloaking Operation. <i>Materials</i> , <b>2015</b> , 8, 4790-4804	3.5	62
79	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
78	A Double-Negative Metamaterial-Inspired Mobile Wireless Antenna for Electromagnetic Absorption Reduction. <i>Materials</i> , <b>2015</b> , 8, 4817-4828	3.5	14
77	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
76	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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73	Metasurface Reflector (MSR) Loading for High Performance Small Microstrip Antenna Design. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127185	3.7	9
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71	Stochastic Leader Gravitational Search Algorithm for Enhanced Adaptive Beamforming Technique. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140526	3.7	5
70	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

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62	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
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54	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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52	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

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50	Assessment of specific absorption rate reduction in human head using metamaterial. <i>Science and Engineering of Composite Materials</i> , <b>2014</b> , 21, 79-85	1.5	2
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43	Development of rain attenuation model for Southeast Asia equatorial climate. <i>IET Communications</i> , <b>2013</b> , 7, 1008-1014	1.3	6
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41	A New Metasurface Superstrate Structure for Antenna Performance Enhancement. <i>Materials</i> , <b>2013</b> , 6, 3226-3240	3.5	26
40	Scattering phase performance of varactor diode across ring's gap reconfigurable reflectarray element <b>2013</b> ,		1
39	Characterization of GPS PWV during flooding event over Keningau, Sabah <b>2013</b> ,		2
38	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
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31	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
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26	A new I slotted compact microstrip antenna for L1 & L2 bands <b>2011</b> ,		3
25	Numerical analysis of aluminium sheet for SAR reduction <b>2011</b> ,		2
24	Compact printed ultra-wideband antenna with dual band- notch characteristics <b>2011</b> ,		1
23	Compact planar antenna with dual band-notched characteristics for UWB applications <b>2011</b> ,		4
22	A novel wideband antenna for dual band WLAN application <b>2010</b> ,		2
21	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
20	Assessment of specific absorption rate (SAR) and temperature increases in the human head of portable telephones <b>2010</b> ,		2
19	Printed circular ring antenna for UWB application <b>2010</b> ,		10
18	Compact planar antenna for UWB applications <b>2010</b> ,		6
17	A Novel Feeding Technique for a Dual Band Microstrip Patch Antenna. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 2455-2457	0.5	5
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15	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
14	Modified E-H shaped microstrip antenna for wireless systems <b>2009</b> ,		2
13	Design of a compact dual band microstrip antenna for Ku-band application <b>2009</b> ,		12
12	Reduction of specific absorption rate (SAR) in the human head with materials and metamaterial <b>2009</b> ,		3
11	Ultrawideband EH shaped stack patch antenna for wireless communications <b>2009</b> ,		3
10	An efficient FPGA based prototyping platform for MIMO decoding <b>2009</b> ,		1
9	Optimization of microstrip patch antenna using Particle swarm optimization with curve fitting <b>2009</b> ,		13
8	Design analysis of compact dual-band microstrip RFID reader antenna <b>2009</b> ,		6
7	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
6	Stacked multiple slot microstrip patch antenna for wireless communication system <b>2008</b> ,		2
5	<b>2008</b> ,		4
4	Design of broadband multi-slotted microstrip patch antenna for wireless system <b>2008</b> ,		4
3	Design of microstrip antenna for GPS application <b>2008</b> ,		4
2	Compact wideband five-port reflectometer based on symmetrical waveguide ring junction for synthetic microwave imaging applications. <i>International Journal of Communication Systems</i> , e5032	1.7	0
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