Karu P Esselle

List of Publications by Citations

278 papers	4,598 citations	38 h-index	58 g-index
405 ext. papers	6,338 ext. citations	2.7 avg, IF	6.27 L-index

#	Paper	IF	Citations
278	. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 743-750	4.9	140
277	A Coupled-Field Expansion Method for Single-Layer and Multilayer Planar Periodic Structures. *International Journal of Antennas and Propagation*, **2012**, 2012, 1-16	1.2	135
276	. *IEEE Transactions on Electromagnetic Compatibility*, **2014**, 56, 1404-1411	2	120
275	. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 3320-3325	4.9	105
274	Steering the Beam of Medium-to-High Gain Antennas Using Near-Field Phase Transformation. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 1680-1690	4.9	103
273	Multiobjective Particle Swarm Optimization to Design a Time-Delay Equalizer Metasurface for an Electromagnetic Band-Gap Resonator Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 912-915	3.8	102
272	Dual-Band Dual-Mode Textile Antenna on PDMS Substrate for Body-Centric Communications. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 677-680	3.8	100
271	Multioctave Frequency Selective Surface Reflector for Ultrawideband Antennas. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 219-222	3.8	89
270	A novel absorb/transmit FSS for secure indoor wireless networks with reduced multipath fading. *IEEE Microwave and Wireless Components Letters*, **2006**, 16, 378-380	2.6	85
269	. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 2970-2977	4.9	80
268	Oblique Incidence Performance of a Novel Frequency Selective Surface Absorber. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 2931-2934	4.9	79
267	Wideband Circularly Polarized Stacked Microstrip Antennas. *IEEE Antennas and Wireless Propagation Letters*, **2007**, 6, 21-24	3.8	77
266	Dielectric Loaded Impedance Matching for Wideband Implanted Antennas. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 2480-2487	4.1	76
265	High-gain 1D EBG resonator antenna. *Microwave and Optical Technology Letters*, **2005**, 47, 107-114	1.2	74
264	UWB Wearable Antenna With a Full Ground Plane Based on PDMS-Embedded Conductive Fabric. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 493-496	3.8	73
263	Switchable Frequency Selective Surface for Reconfigurable Electromagnetic Architecture of Buildings. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 581-584	4.9	71
262	A Printed Elliptical Monopole Antenna With Modified Feeding Structure for Bandwidth Enhancement. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 667-670	4.9	71

261	. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 520-525	4.9	69
260	Dual resonator 1-D EBG antenna with slot array feed for improved radiation bandwidth. *IET Microwaves, Antennas and Propagation*, **2007**, 1, 198	1.6	68
259	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2146-2154	4.9	65
258	Single-Dielectric Wideband Partially Reflecting Surface With Variable Reflection Components for Realization of a Compact High-Gain Resonant Cavity Antenna. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 1916-1921	4.9	57
257	A Method to Realize Robust Flexible Electronically Tunable Antennas Using Polymer-Embedded Conductive Fabric. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 50-58	4.9	57
256	Periodic U-Slot-Loaded Dual-Band Half-Width Microstrip Leaky-Wave Antennas for Forward and Backward Beam Scanning. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5372-5381	4.9	54
255	A Low-Profile Printed Planar Phase Correcting Surface to Improve Directive Radiation Characteristics of Electromagnetic Band Gap Resonator Antennas. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 276-280	4.9	54
254	A Class of Extremely Wideband Resonant Cavity Antennas With Large Directivity-Bandwidth Products. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 830-835	4.9	53
253	Wideband Near-Field Correction of a Fabry□Perot Resonator Antenna. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 1975-1980	4.9	53
252	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1262-1269	4.9	51
251	Dielectric Phase-Correcting Structures for Electromagnetic Band Gap Resonator Antennas. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3390-3399	4.9	51
250	A Broadside-Coupled Meander-Line Resonator in 0.13- $mu text{m}$ SiGe Technology for Millimeter-Wave Application. *IEEE Electron Device Letters*, **2016**, 37, 329-332	4.4	50
249	A Simple Dual-Band Electromagnetic Band Gap Resonator Antenna Based on Inverted Reflection Phase Gradient. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4522-4529	4.9	48
248	A Simple Ultra Wideband Printed Monopole Antenna With High Band Rejection and Wide Radiation Patterns. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 4816-4820	4.9	47
247	Low-Cost Nonuniform Metallic Lattice for Rectifying Aperture Near-Field of Electromagnetic Bandgap Resonator Antennas. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 3328-3335	4.9	46
246	A Low-Profile Compact Microwave Antenna With High Gain and Wide Bandwidth. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 1880-1883	4.9	45
245	Compact Dielectric Resonator Antennas With Ultrawide 60%□10% Bandwidth. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 3445-3448	4.9	44
244	Circularly polarised higher-order rectangular dielectric-resonator antenna. *Electronics Letters*, **1996**, 32, 150	1.1	43

243	Design of Low-Profile High-Gain EBG Resonator Antennas Using a Genetic Algorithm. *IEEE Antennas and Wireless Propagation Letters*, **2007**, 6, 480-483	3.8	43
242	Antennas with dielectric resonators and surface mounted short horns for high gain and large bandwidth. *IET Microwaves, Antennas and Propagation*, **2007**, 1, 723	1.6	39
241	All-metal wideband metasurface for near-field transformation of medium-to-high gain electromagnetic sources. *Scientific Reports*, **2021**, 11, 9421	4.9	39
240	A High-Gain Dual-Band EBG Resonator Antenna with Circular Polarization. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 108-111	3.8	38
239	High gain circularly polarised 1-D EBG resonator antenna. *Electronics Letters*, **2006**, 42, 1012	1.1	38
238	. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 5747-5756	4.9	37
237	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 4343-4348	4.9	35
236	Effects of Printed UWB Antenna Miniaturization on Pulse Fidelity and Pattern Stability. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 3903-3910	4.9	35
235	Electromagnetic-wave beam-scanning antenna using near-field rotatable graded-dielectric plates. *Journal of Applied Physics*, **2018**, 124, 234901	2.5	34
234	STUDY OF AN EXTREMELY WIDEBAND MONOPOLE ANTENNA WITH TRIPLE BAND-NOTCHED CHARACTERSISTICS. *Progress in Electromagnetics Research*, **2012**, 123, 143-158	3.8	31
233	Compact super-wideband asymmetric monopole antenna with dual-branch feed for bandwidth enhancement. *Electronics Letters*, **2013**, 49, 515-516	1.1	31
232	Single-layer bandpass active frequency selective surface. *Microwave and Optical Technology Letters*, **2008**, 50, 2149-2151	1.2	30
231	Achieving a Large Gain-Bandwidth Product From a Compact Antenna. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 3437-3446	4.9	29
230	A Compact Super-Wideband Antenna Pair With Polarization Diversity. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1472-1475	3.8	29
229	Development of Robust Transparent Conformal Antennas Based on Conductive Mesh-Polymer Composite for Unobtrusive Wearable Applications. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 7216-7224	4.9	28
228	Additively Manufactured Perforated Superstrate to Improve Directive Radiation Characteristics of Electromagnetic Source. *IEEE Access*, **2019**, 7, 153445-153452	3.5	28
227	UWB Performance of Compact L-shaped Wide Slot Antennas. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1183-1187	4.9	28
226	Polydimethylsiloxane-Embedded Conductive Fabric: Characterization and Application for Realization of Robust Passive and Active Flexible Wearable Antennas. *IEEE Access*, **2018**, 6, 48102-48112	3.5	28

225	A METHOD TO DESIGN DUAL-BAND, HIGH-DIRECTIVITY EBG RESONATOR ANTENNAS USING SINGLE-RESONANT, SINGLE-LAYER PARTIALLY REFLECTIVE SURFACES. *Progress in Electromagnetics Research C*, **2010**, 13, 245-257	0.9	27
224	Wideband High-Gain Circularly Polarized Stacked Microstrip Antennas With an Optimized C-Type Feed and a Short Horn. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 578-581	4.9	27
223	Photonic crystal horn and array antennas. *Physical Review E*, **2003**, 68, 016609	2.4	26
222	A CONSTANT GAIN ULTRA-WIDEBAND ANTENNA WITH A MULTI-LAYER FREQUENCY SELECTIVE SURFACE. *Progress in Electromagnetics Research Letters*, **2013**, 38, 119-125	0.5	25
221	. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 1890-1897	4.1	24
220	Analysis of spiral metamaterials by use of group theory. *Metamaterials*, **2009**, 3, 33-43		24
219	Transmission of infrared and visible wavelengths through energy-saving glass due to etching of frequency-selective surfaces. *IET Microwaves, Antennas and Propagation*, **2010**, 4, 955	1.6	24
218	New closed-form Green's functions for microstrip structures - theory and results. *IEEE Transactions on Microwave Theory and Techniques*, **2002**, 50, 1556-1560	4.1	24
217	Compact diversity antenna for wireless devices. *Electronics Letters*, **2005**, 41, 52	1.1	24
216	. *IEEE Access*, **2020**, 8, 199242-199253	3.5	24
215	3-D-Printed Phase-Rectifying Transparent Superstrate for Resonant-Cavity Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1400-1404	3.8	23
214	Planar ultra-wideband antenna with five notched stop bands. *Electronics Letters*, **2013**, 49, 579-580	1.1	23
213	Forward and Backward Beam-Scanning Tri-Band Leaky-Wave Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1891-1894	3.8	22
212	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 3453-3464	4.9	22
211	Achieving Ratio Bandwidth of 25:1 From a Printed Antenna Using a Tapered Semi-Ring Feed. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1333-1336	3.8	22
210	An Array of Half-Width Microstrip Leaky-Wave Antennas Radiating on Boresight. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 112-114	3.8	21
209	A low-profile dual-layer ultra-wideband frequency selective surface reflector. *Microwave and Optical Technology Letters*, **2013**, 55, 1223-1227	1.2	21
208	Glass Characterization for Designing Frequency Selective Surfaces to Improve Transmission through Energy Saving Glass Windows **2007**,		21

207	A wideband EBG resonator antenna with an extremely small footprint area. *Microwave and Optical Technology Letters*, **2015**, 57, 1531-1535	1.2	20
206	Angle and polarization-independent bandstop frequency selective surface for indoor wireless systems. *Microwave and Optical Technology Letters*, **2008**, 50, 2315-2317	1.2	20
205	Controlling the Most Significant Grating Lobes in Two-Dimensional Beam-Steering Systems With Phase-Gradient Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1389-1401	4.9	20
204	. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 3173-3178	4.9	19
203	A Methodology to Design a Low-Profile Composite-Dielectric Phase-Correcting Structure. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 1223-1227	3.8	19
202	GA□DTD technique for the design and optimisation of periodic metamaterials. *IET Microwaves, Antennas and Propagation*, **2007**, 1, 158	1.6	18
201	All-Metal Wideband Frequency-Selective Surface Bandpass Filter for TE and TM polarizations. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	18
200	Broadband Partially Reflecting Superstrate-Based Antenna for 60 GHz Applications. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 4854-4859	4.9	17
199	Design of an artificial magnetic conductor surface using an evolutionary algorithm **2017**,		17
198	A wideband probe-fed stacked dielectric resonator antenna. *Microwave and Optical Technology Letters*, **2006**, 48, 1630-1633	1.2	17
197	Resonance frequency of an equilateral triangular microstrip antenna. *Microwave and Optical Technology Letters*, **2005**, 47, 485-489	1.2	17
196	. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 5532-5540	4.9	16
195	TUNABLE PERIODIC MICROSTRIP STRUCTURE ON GAAS WAFER. *Progress in Electromagnetics Research*, **2009**, 97, 1-10	3.8	16
194	Active frequency selective surface using PIN diodes **2007**,		16
193	Design and Characterization of a Flexible Wideband Antenna Using Polydimethylsiloxane Composite Substrate. *International Journal of Antennas and Propagation*, **2018**, 2018, 1-6	1.2	16
192	. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2020**, 5, 89-98	1.5	15
191	. *IEEE Access*, **2017**, 5, 8804-8811	3.5	14
190	A printed UWB antenna with full ground plane for WBAN applications **2016**,		14

189	Millimeter-wave frequency reconfigurable T-shaped antenna for 5G networks **2015**,		14
188	. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1922-1934	4.9	14
187	Layer-by-layer photonic crystal horn antenna. *Physical Review E*, **2004**, 70, 037602	2.4	14
186	Integrated GSM-UWB Fibonacci-type antennas with single, dual, and triple notched bands. *IET Microwaves, Antennas and Propagation*, **2018**, 12, 1004-1012	1.6	13
185	Wideband and high-gain circularly polarised microstrip antenna design using sandwiched metasurfaces and partially reflecting surface. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 305-312	1.6	13
184	A Method to Develop Flexible Robust Optically Transparent Unidirectional Antennas Utilizing Pure Water, PDMS, and Transparent Conductive Mesh. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6943-6952	4.9	12
183	Development of Wireless Transducer for Real-Time Remote Patient Monitoring. *IEEE Sensors Journal*, **2016**, 16, 4669-4670	4	12
182	Factors affecting neural stimulation with magnetic fields. *Bioelectromagnetics*, **1992**, Suppl 1, 191-204	1.6	11
181	Recent Developments and State of the Art in Flexible and Conformal Reconfigurable Antennas. *Electronics (Switzerland)*, **2020**, 9, 1375	2.6	11
180	Quasi-analytical synthesis of continuous phase correcting structures to increase the directivity of circularly polarized Fabry-Perot resonator antennas. *Journal of Applied Physics*, **2015**, 117, 214902	2.5	10
179	Planar-Monopole-Fed, Surface-Mounted Quasi-TEM Horn Antenna for UWB Systems. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2436-2439	4.9	10
178	A broadband E-shaped patch antenna with a microstrip-compatible feed. *Microwave and Optical Technology Letters*, **2004**, 42, 111-112	1.2	10
177	Directivity improvement of a Fabry-Perot cavity antenna by enhancing near field characteristic **2016**,		10
176	**2016**,		9
175	High-gain dual-band dual-polarised electromagnetic band gap resonator antenna with an all-dielectric superstructure. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 1059-1065	1.6	9
174	A resonant cavity antenna based on an optimized thin superstrate. *Microwave and Optical Technology Letters*, **2008**, 50, 3057-3059	1.2	9
173	. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 3193-3203	4.9	9
172	A Low-Profile Beam-Tilted Antenna Array for Receiving Direct-Broadcast Satellite Services **2018**,		9

171	Eddy Current Tunneling Magneto-Resistive Sensor for Micromotion Detection of a Tibial Orthopaedic Implant. *IEEE Sensors Journal*, **2019**, 19, 1285-1292	4	8
170	Optically Transparent Flexible Robust Circularly Polarized Antenna for UHF RFID Tags. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 2334-2338	3.8	8
169	**2016**,		8
168	High-Gain Low-Profile Chip-Fed Resonant Cavity Antennas for Millimeter-Wave Bands. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 2394-2398	3.8	8
167	An armband-wearable printed antenna with a full ground plane for body area networks **2014**,		8
166	Microwave Characterization of Carbon Nanotube Yarns For UWB Medical Wireless Body Area Networks. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 3625-3631	4.1	8
165	Changing the Electromagnetic Bandgap and Stopbands in a Multistate Periodic Circuit. *Microwave and Optical Technology Letters*, **2013**, 55, 1871-1874	1.2	8
164	Oblique incidence performance of UWB frequency selective surfaces for reflector applications **2011**,		8
163	Performance of PML absorbing boundary conditions in 3D photonic crystal waveguides. *Microwave and Optical Technology Letters*, **2004**, 40, 1-3	1.2	8
162	. *IEEE Access*, **2020**, 8, 139422-139432	3.5	8
161	A Beam-Steering Solution with Highly Transmitting Hybrid Metasurfaces and Circularly Polarized High-Gain Radial-Line Slot Array Antennas. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	8
160	Enhancing the performance of EBG resonator antennas by individually truncating the superstructure layers. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 1048-1055	1.6	7
159	A printed antenna with a ground plane and electromagnetically coupled feed for 2.45GHz body area networks **2013**,		7
158	Design and analysis of frequency-selective surfaces for ultrawideband applications **2011**,		7
157	Effects of a Coplanar Waveguide Biasing Network Built Into the Ground Plane on the Dispersion Characteristics of a Tunable Unit Cell With an Elliptical Patch and Multiple Vias. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1088-1091	3.8	7
156	A dielectric resonator antenna for UWB applications. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		7
155	Low-profile resonant cavity antenna based on an in-phase metamaterial surface. *Microwave and Optical Technology Letters*, **2009**, 51, 731-733	1.2	7
154	Advancements and artificial intelligence approaches in antennas for environmental sensing **2022**, 19-38		7

153	Millimeter-Wave Broadband Antennas With Low Profile Dielectric Covers. *IEEE Access*, **2019**, 7, 186228-186235	3.5	7
152	A Metasurface to Focus Antenna Beam at Offset Angle **2018**,		7
151	**2016**,		6
150	A simple dual-band dual-mode antenna for off-/on-body centric communications **2016**,		6
149	A new technique to design 1-D dual-band EBG resonator antennas **2011**,		6
148	Experimental demonstration of a dual-band electromagnetic band-gap resonator antenna made out of a simple, single-layer frequency selective surface. *Microwave and Optical Technology Letters*, **2011**, 53, 1867-1869	1.2	6
147	Modulated strip-line leaky-wave antenna using a printed grating lens and a surface-wave source **2010**,		6
146	A printed triangular-ring antenna with a 2:1 bandwidth. *Microwave and Optical Technology Letters*, **2005**, 44, 51-53	1.2	6
145	Low-Cost Ultrawideband High-Gain Compact Resonant Cavity Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1271-1275	3.8	5
144	Experimental studies of the robustness of the conductive-mesh-polymer composite towards the development of conformal and transparent antennas. *Smart Materials and Structures*, **2020**, 29, 085015	3.4	5
143	Stub-loaded printed antenna with a ground plane and electromagnetically coupled feed for 2.45GHz body area networks **2013**,		5
142	EQUIVALENT-CIRCUIT MODELS FOR EFFICIENT TRANSMISSION AND DISPERSION ANALYSES OF MULTI-STATE PERIODIC STRUCTURES. *Progress in Electromagnetics Research*, **2015**, 153, 93-102	3.8	5
141	Measuring radiotelescope phased array feed noise and sensitivity **2014**,		5
140	Design of an implantable antenna to acquire physiological signals in rats **2012**,		5
139	Consideration of bandwidth of the small EBG-resonator antenna using the in-phase highly-reflecting surfaces. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		5
138	Transmission analysis of energy saving glass windows for the purpose of providing FSS solutions at microwave frequencies **2008**,		5
137	A new, closed-form, spatial-domain Green's function for layered structures and its application to the method of moments. *Microwave and Optical Technology Letters*, **2002**, 32, 229-231	1.2	5
136	. *IEEE Access*, **2020**, 8, 208532-208542	3.5	5

135	On-body antennas: Design considerations and challenges **2016**,		5
134	. *IEEE Access*, **2021**, 9, 109080-109093	3.5	5
133	Directive array based pattern reconfigurable antenna **2017**,		4
132	ADDITIVE MANUFACTURING OF A DUAL-RIDGED HORN ANTENNA. *Progress in Electromagnetics Research Letters*, **2016**, 59, 109-114	0.5	4
131	Millimeter-Wave Low-Loss Multifeed Superstrate-Based Antenna. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 3387-3396	4.9	4
130	An ultra-compact integrated millimeter-wave coupled-line resonator and a bandpass filter in silicon-germanium technology **2016**,		4
129	Design and measurements of a tri-band one-dimensional electromagnetic bandgap resonator antenna. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 168-172	1.6	4
128	A transmission polarizer based on width-modulated lines and slots **2013**,		4
127	A varactor-tuned frequency-reconfigurable fabric antenna embedded in polymer: Assessment of suitability for wearable applications **2017**,		4
126	A printed dual band antenna with a ground plane and electromagnetically-coupled feed for wireless body area networks **2014**,		4
125	Bandwidth enhancement of an implantable RFID tag antenna at 900 MHz ISM band for RF telemetry **2012**,		4
124	A simple EBG structure for dual-band circularly polarized antennas with high directivity **2012**,		4
123	**2012**,		4
122	A printed antenna with constant gain over a wide bandwidth for ultra-wideband applications. *Microwave and Optical Technology Letters*, **2010**, 52, 1261-1264	1.2	4
121	Compact ultra-wideband CPW-FED printed semicircular slot antenna. *Microwave and Optical Technology Letters*, **2010**, 52, 2367-2372	1.2	4
120	Compact circularly polarized enhanced gain microstrip antenna on high permittivity substrate		4
119	Increasing the transparency of compact flexible antennas using defected ground structure for unobtrusive wearable technologies. *IET Microwaves, Antennas and Propagation*, **2020**, 14, 1869-1877	1.6	4
118	A dual-band half-width microstrip leaky-wave antenna for beam scanning in the forward and backward directions **2016**,		4

117	An Electronically-Tunable, Flexible and Transparent Antenna with Unidirectional Radiation Pattern. *IEEE Access*, **2021**, 1-1	3.5	4
116	**2018**,		4
115	A Stripline-Based Planar Wideband Feed for High-Gain Antennas with Partially Reflecting Superstructure. *Micromachines*, **2019**, 10,	3.3	3
114	A high gain radial line slot array antenna for satellite reception **2018**,		3
113	A planar feeding technique for wideband, low-profile resonant cavity antennas **2016**,		3
112	Compact On-Body Antennas for Wearable Communication Systems **2019**,		3
111	Preliminary investigations into a simple and effective rectenna for RF energy harvesting **2017**,		3
110	Reconfigurable antenna options for 2.45/5 GHz wireless body area networks in healthcare applications. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 5465-8	0.9	3
109	A switchable printed antenna with a ground plane for 2.45/5 GHz wireless body area networks **2015** ,		3
108	Reconfigurable antennas with narrowband and ultra wideband modes **2015**,		3
107	Fixed-frequency leaky-wave antenna for simultaneous forward and backward scanning **2014**,		3
106	A miniaturized implantable PIFA antenna for indoor wireless telemetry **2012**,		3
105	. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 2635-2644	4.9	3
104	An implantable PIFA antenna with a J-shaped proximity feed for RFID telemetry **2013**,		3
103	Enhanced gain UWB slot antenna with multilayer Frequency-Selective Surface reflector **2011**,		3
102	An asymmetrical structure for printed SWB antenna miniaturization **2010**,		3
101	A printed monopole antenna with extremely wide bandwidth **2009**,		3
100	A UWB Probe-Fed Dielectric Resonator Antenna **2009**,		3

99	jawidening the bandwidth of single-fed circularly polarized microstrip patch antenna using sequential array **2008**,		3
98	Gain enhancement of a dielectric resonator antenna with use of surface mounted short horn. *Microwave and Optical Technology Letters*, **2007**, 49, 1162-1166	1.2	3
97	Double-layer embroidery strategy for fabrication of textile antennas with improved efficiency **2016** ,		3
96	Investigating Small Aperture Radial Line Slot Array Antennas for Medium Gain Communication Links **2019**,		3
95	**2018**,		3
94	A Low-Profile Phase Correcting Solution to Improve Directivity of Horn Antenna **2018**,		3
93	Investigation on Aperture Field Distribution of Circularly Polarised Radial Line Slot Array Antennas **2018**,		3
92	Design, Modeling, and Evaluation of the Eddy Current Sensor Deeply Implanted in the Human Body. *Sensors*, **2018**, 18,	3.8	3
91	Improving radiation performance of extremely truncated RCAs through near-field analysis. *IET Microwaves, Antennas and Propagation*, **2018**, 12, 1954-1959	1.6	3
90	Pulse-preserving characteristics and effective isotropically radiated power spectra of a new ultrawideband dielectric resonator antenna. *IET Microwaves, Antennas and Propagation*, **2018**, 12, 1231-1238	1.6	3
89	. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 4447-4456	4.9	3
88	Ultra Wideband Beam-steering at mm-wave Frequency with Planar Dielectric Phase Transformers. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	3
87	A dual-mode reconfigurable patch antenna and an extended transmission line model. *Microwave and Optical Technology Letters*, **2016**, 58, 57-61	1.2	2
86	Bending Analysis of Switchable Frequency Selective Surface Based on Flexible Composite Substrate **2019**,		2
85	Directive beaming with lens-like superstates for low profile Fabry-Perot cavity antennas **2014**,		2
84	Polarization stable ultra-wide-band Frequency Selective Surface for Ku- and K- band applications **2013**,		2
83	Highly Efficient Leaky-Wave Antenna Array for 28-GHz Millimeter-Wave Terminals **2017**,		2
82	Design and Improvement of Pattern Quality in Circularly Polarised Slot Array Antenna for Direct Broadcast Satellite Applications **2017**,		2

81	A low-profile single-layer UWB polarization stable FSS for electromagnetic shielding applications **2014**,		2
80	Four-branch microstrip leaky-wave antenna array for radiation towards broadside **2014**,		2
79	Effective Electromagnetic Shielding over an ultra-wide bandwidth using a Frequency Selective Surface **2013**,		2
78	Gain enhancement of UWB slot with the use of surface mounted short horn **2010**,		2
77	Enhancing RF/microwave efficient transmission through energy saving glass windows using Frequency Selective surface **2011**,		2
76	A single-layer thin partially reflecting surface for tri-band directivity enhancement **2012**,		2
75	Optimising the coaxial-fed location to enhance circular polarization bandwidth of stacked microstrip antennas. *Microwave and Optical Technology Letters*, **2007**, 49, 132-135	1.2	2
74	Wideband Stacked Dielectric Resonator Antennas **2007**,		2
73	A fast and general complex image method for evaluating the Sommerfeld integrals. *Microwave and Optical Technology Letters*, **2001**, 30, 24-26	1.2	2
72	Analysis of microstrip lines with diagonal edges using a singularity-enhanced FDTD technique. *Microwave and Optical Technology Letters*, **1999**, 23, 121-123	1.2	2
71	Flexible and Transparent Circularly Polarized Patch Antenna for Reliable Unobtrusive Wearable Wireless Communications.. *Sensors*, **2022**, 22,	3.8	2
70	. *IEEE Access*, **2020**, 8, 225336-225346	3.5	2
69	A Beam Squinted Linearly Polarised Radial Line Slot Array Antenna with Improved Return Loss Bandwidth **2020**,		2
68	The Use of a Pair of 3D-Printed Near Field Superstructures to Steer an Antenna Beam in Elevation and Azimuth. *IEEE Access*, **2021**, 9, 153995-154010	3.5	2
67	An extremely wideband Fabry-Perot cavity antenna for superfast wireless backhaul applications **2016**,		2
66	Performance analysis of classical and phase-corrected electromagnetic band gap resonator antennas with all-dielectric superstructures. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 1276-1284	1.6	2
65	Compact Beam-Steered Resonant-Cavity Antenna Using Near-Field Phase Transformation **2019**,		2
64	Analyzing the Coupling from Radiating Slots in a Double-Layered Radial Line Slot Array Antenna **2019**,		2

63	Differentially Fed CDRA Array with Phase Inverter for High Gain and Reduced Cross Polarization **2019**,		2
62	Use of Narrower Reflection Cancelling Slots to Design Linearly Polarized Radial Line Slot Arrays with Improved Radiation Performance. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 1-1	3.8	2
61	**2018**,		2
60	A Wideband Circularly Polarized Dielectric Resonator Antenna over A Metasurface **2018**,		2
59	Darkening Low-Earth Orbit Satellite Constellations: A Review. *IEEE Access*, **2022**, 10, 24383-24394	3.5	2
58	Performance of embroidered higher-order mode antennas with different stitching patterns **2017**,		1
57	Low-Cost All-Metal Resonant-Cavity Antenna for High Power Applications **2020**,		1
56	Metal-based materials for the development of implanted bio-devices (Invited paper) **2016**,		1
55	A simple resonant cavity antenna with improved directivity-bandwidth performance for high-capacity wireless data links **2013**,		1
54	Investigation of large directivity bandwidth in multilayer resonant cavity antennas **2017**,		1
53	**2017**,		1
52	Orthopaedic implant micromotion sensing using an eddy current sensor **2017**,		1
51	The use of near-field phase transformation to design a low-profile azimuthal beam scanning antenna system **2017**,		1
50	A low-profile dielectric resonator antenna for wideband applications **2015**,		1
49	Conical beaming using simple arrays of uniform half-width microstrip leaky-wave antennas **2015**,		1
48	AN ULTRA-WIDEBAND QUASI-PLANAR ANTENNA WITH ENHANCED GAIN. *Progress in Electromagnetics Research C*, **2014**, 49, 59-65	0.9	1
47	SHARED-APERTURE DUAL-BAND DUAL-POLARIZATION ARRAY USING SANDWICHED STACKED PATCH. *Progress in Electromagnetics Research C*, **2014**, 52, 183-195	0.9	1
46	Implantable compact antennas for wireless bio-telemetry: A comparative study **2014**,		1

45	**2013**,		1
44	Making a telemetry system implantable: Challenges and opportunities in antenna design **2013**,		1
43	Effects of the variation of the dielectric constant for a periodic, width-modulated microstrip line based sensor **2010**,		1
42	Design, fabrication, simulation, and measurement of a dual-band, planar, compact artificial magnetic conductor. *Microwave and Optical Technology Letters*, **2009**, 51, 1524-1527	1.2	1
41	Effects of rat skin on the resonance frequency: An experiment with a commercial antenna for an implanted telemetry system **2011**,		1
40	Compact microstrip and CPW duplexers using complementary and conventional logarithmic spiral resonators **2007**,		1
39	Study of various Slots in Circular Patch for Circularly Polarized Antennas and Enhancing their Gain by Short Horns **2006**,		1
38	Increasing the Gain of Beam-Tilted Circularly Polarized Radial-Line Slot Array Antennas. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	1
37	Space Efficient Meta-grid Lines for Mutual Coupling Reduction in Two-Port Planar Monopole and DRA Array. *IEEE Access*, **2022**, 1-1	3.5	1
36	Circularly polarized 1-D EBG resonator antenna **2004**,		1
35	. *IEEE Access*, **2020**, 8, 224922-224931	3.5	1
34	Recent Advances in Near-Field Meta-Steering **2020**,		1
33	A Low-profile and Efficient Front-End Antenna for Point-to-Point Wireless Communication Links **2020**,		1
32	3D Printable Lightweight Porous Superstrate for Improved Radiation Performance of Antenna **2020**,		1
31	A Double Layer Circularly Polarised Radial Line Slot Array Antenna with Uniform Aperture Illumination **2020**,		1
30	A dielectric free near field phase transforming structure for wideband gain enhancement of antennas. *Scientific Reports*, **2021**, 11, 14613	4.9	1
29	Advantages and limitations of 3D printing a dual-ridged horn antenna. *Microwave and Optical Technology Letters*, **2016**, 58, 2110-2117	1.2	1
28	A Passive Beam Reconfigurable Antenna System for Millimeter-wave Applications **2019**,		1

27	A Linearly Polarised Radial Line Slot Array Antenna with Reflection Cancelling Slots **2018**,		1
26	A Low-Profile, Planar, Power-Efficient 2D Beam-Steering Antenna Technology **2018**,		1
25	Sidelobe Suppression in Resonant Cavity Antennas through Near-field Analysis **2018**,		1
24	**2020**,		0
23	The Applications of Metamaterials. *International Journal of Antennas and Propagation*, **2015**, 2015, 1-2	1.2	0
22	Efficient analysis of arbitrarily shaped microstrip structures. *Microwave and Optical Technology Letters*, **2003**, 37, 246-248	1.2	0
21	Accurate optimization technique for phase-gradient metasurfaces used in compact near-field meta-steering systems.. *Scientific Reports*, **2022**, 12, 4118	4.9	0
20	Meet the New Distinguished Lecturers for 2019-2021 [Distinguished Lecturers]. *IEEE Antennas and Propagation Magazine*, **2019**, 61, 136-138	1.7	
19	Design and analysis of m-segment fractal boundary antennas. *Microwave and Optical Technology Letters*, **2019**, 61, 2119-2125	1.2	
18	Resonant Cavity Antennas **2019**, 1-20		
17	Making UWB Antennas Unidirectional: Phase Coherence with an Ultra-Wide Band Frequency Selective Surface Reflector **2018**, 227-258		
16	IEEE Access Special Section Editorial: Bio-Compatible Devices and Bio-Electromagnetics for Bio-Medical Applications. *IEEE Access*, **2015**, 3, 3119-3121	3.5	
15	Efficient Numerical Analysis of a Periodic Structure of Multistate Unit Cells. *International Journal of Antennas and Propagation*, **2014**, 2014, 1-6	1.2	
14	Small Multiband Printed Monopole Antennas257-279		
13	Comparison of UWB Antennas Considering Pattern Variation With Frequency **2007**, 57-62		
12	A closed-form analysis of printed wide-slot antennas. *International Journal of RF and Microwave Computer-Aided Engineering*, **2003**, 13, 389-397	1.5	
11	Antennas for 5 GHz Wireless Communication Systems **2005**, 269-280		
10	Computation of the radiation patterns of a rectangular dielectric-resonator antenna using the method of moments. *Microwave and Optical Technology Letters*, **2000**, 27, 382-384	1.2	

9	Call for IEEE AP-S Distinguished Lecturer Nominations. *IEEE Antennas and Propagation Magazine*, **2020**, 62, 127-127	1.7
8	Cylindrical Model for Neural Stimulation with Magnetic Fields **1996**, 151-159	
7	Distinguished Lectures on Radio Astronomy and Training the Next Generation [Distinguished Lecturers]. *IEEE Antennas and Propagation Magazine*, **2020**, 62, 140-145	1.7
6	IEEE AP-S Holds First Distinguished Lecture in Entrepreneurship Category [Distinguished Lecturers]. *IEEE Antennas and Propagation Magazine*, **2020**, 62, 104-112	1.7
5	Distinguished Lecturer Program News And New Appointments [Distinguished Lecturers]. *IEEE Antennas and Propagation Magazine*, **2021**, 63, 138-141	1.7
4	EXTENDED TRANSMISSION-LINE MODELLING OF INSET-FED RECONFIGURABLE RECTANGULAR MICROSTRIP ANTENNAS. *Progress in Electromagnetics Research B*, **2016**, 68, 123-140	0.7
3	Distinguished Lecturer Program Update [Distinguished Lecturers]. *IEEE Antennas and Propagation Magazine*, **2019**, 61, 120-120	1.7
2	5G Extender Antenna Systems to Enhance Indoor Millimetre-Wave Reception. *PoliTO Springer Series* , **2022**, 1-27	0.4
1	EBG Materials and Antennas413-450	