John L Volakis

List of Publications by Citations

240 papers	3,915 citations	34 h-index	52 g-index
395 ext. papers	5,287 ext. citations	3.4 avg, IF	6.01 L-index

#	Paper	IF	Citations
240	Investigation of Rectenna Array Configurations for Enhanced RF Power Harvesting. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 262-265	3.8	205
239	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4538-4548	4.9	164
238	. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4141-4147	4.9	145
237	Polymer□eramic Composites for Microwave Applications: Fabrication and Performance Assessment. *IEEE Transactions on Microwave Theory and Techniques*, **2006**, 54, 4202-4208	4.1	126
236	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 4256-4265	4.9	100
235	60-GHz Two-Dimensionally Scanning Array Employing Wideband Planar Switched Beam Network. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 818-821	3.8	93
234	Superstrate-Enhanced Ultrawideband Tightly Coupled Array With Resistive FSS. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4166-4172	4.9	84
233	Embroidered Multiband Body-Worn Antenna for GSM/PCS/WLAN Communications. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 3321-3329	4.9	83
232	A Portable Low-Power Harmonic Radar System and Conformal Tag for Insect Tracking. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 444-447	3.8	82
231	Wideband Planar Array With Integrated Feed and Matching Network for Wide-Angle Scanning. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4528-4537	4.9	80
230	Textile Antennas and Sensors for Body-Worn Applications. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1690-1693	3.8	73
229	. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 151-153	3.8	69
228	. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 1334-1341	4.9	59
227	Ultrawideband Superstrate-Enhanced Substrate-Loaded Array With Integrated Feed. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 5802-5807	4.9	51
226	Wireless power harvesting with planar rectennas for 2.45 GHz RFIDs **2010**,		49
225	Narrowband and Wideband Metamaterial Antennas Based on Degenerate Band Edge and Magnetic Photonic Crystals. *Proceedings of the IEEE*, **2011**, 99, 1732-1745	14.3	48
224	Distributed Lumped Loads and Lossy Transmission Line Model for Wideband Spiral Antenna Miniaturization and Characterization. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 2671-2678	4.9	47

223	. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 1996-2001	4.9	47
222	Conformal Load-Bearing Spiral Antenna on Conductive Textile Threads. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 230-233	3.8	46
221	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3017-3025	4.9	46
220	High-Geometrical-Accuracy Embroidery Process for Textile Antennas With Fine Details. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 1474-1477	3.8	44
219	. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 325-328	3.8	42
218	Textile-Based Large Area RF-Power Harvesting System for Wearable Applications. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 2323-2331	4.9	42
217	Stretchable and Flexible E-Fiber Wire Antennas Embedded in Polymer. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1381-1384	3.8	41
216	A Wireless Fully Passive Neural Recording Device for Unobtrusive Neuropotential Monitoring. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 131-7	5	39
215	. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 2060-2068	4.1	38
214	. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 2787-2794	4.9	38
213	. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2018**, 2, 64-69	2.8	37
212	Characteristic Excitation Taper for Ultrawideband Tightly Coupled Antenna Arrays. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 1777-1784	4.9	36
211	High-Frequency EM Characterization of Through-Wall Building Imaging. *IEEE Transactions on Geoscience and Remote Sensing*, **2009**, 47, 1375-1387	8.1	36
210	Multiobjective Optimal Antenna Design Based on Volumetric Material Optimization. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 594-603	4.9	35
209	. *IEEE Transactions on Terahertz Science and Technology*, **2016**, 6, 583-591	3.4	34
208	An Extremely Low-Profile Ferrite-Loaded Wideband VHF Antenna Design. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 322-325	3.8	34
207	Interwoven Spiral Array (ISPA) With a 10:1 Bandwidth on a Ground Plane. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 115-118	3.8	34
206	Vulnerabilities, threats, and authentication in satellite-based navigation systems [scanning the issue]. *Proceedings of the IEEE*, **2016**, 104, 1169-1173	14.3	34

205	Adaptive CLEAN With Target Refocusing for Through-Wall Image Improvement. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 155-162	4.9	33
204	Robust Design of RF-MEMS Cantilever Switches Using Contact Physics Modeling. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1012-1021	8.9	33
203	Lifetime Extension of RF MEMS Direct Contact Switches in Hot Switching Operations by Ball Grid Array Dimple Design. *IEEE Electron Device Letters*, **2007**, 28, 479-481	4.4	32
202	Emulation of Propagation in Layered Anisotropic Media With Equivalent Coupled Microstrip Lines. *IEEE Microwave and Wireless Components Letters*, **2006**, 16, 642-644	2.6	32
201	Microscale Silicon Origami. *Small*, **2016**, 12, 5401-5406	11	30
200	. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 5578-5586	4.9	30
199	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 6930-6938	4.9	28
198	Flexible textile antennas for body-worn communication **2012**,		27
197	Ultimate Transmission. *IEEE Microwave Magazine*, **2012**, 13, 64-82	1.2	26
196	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 2511-2518	4.9	26
195	Frozen Modes in Coupled Microstrip Lines Printed on Ferromagnetic Substrates. *IEEE Microwave and Wireless Components Letters*, **2008**, 18, 305-307	2.6	25
194	Degenerate Band Edge Crystals for Directive Antennas. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 119-126	4.9	25
193	Enhanced Microwave Hyperthermia of Cancer Cells with Fullerene. *Molecular Pharmaceutics*, **2016**, 13, 2184-92	5.6	25
192	Wideband RF Self-Interference Cancellation Circuit for Phased Array Simultaneous Transmit and Receive Systems. *IEEE Access*, **2018**, 6, 3425-3432	3.5	24
191	Wideband Low Profile Multiport Antenna With Omnidirectional Pattern and High Isolation. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3777-3786	4.9	24
190	Experimental Validation of Frozen Modes Guided on Printed Coupled Transmission Lines. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 1513-1519	4.1	24
189	Hexagonal Waveguide Based Circularly Polarized Horn Antennas for Sub-mm-Wave/Terahertz Band. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 3366-3374	4.9	23
188	**2012**,		23

187	Miniature Continuous Coverage Antenna Array for GNSS Receivers. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 592-595	3.8	23
186	Small and Adaptive Antennas and Arrays for GNSS Applications. *Proceedings of the IEEE*, **2016**, 104, 1221-1232	11.3	21
185	A Low Frequency Mechanical Transmitter Based on Magnetoelectric Heterostructures Operated at Their Resonance Frequency. *Sensors*, **2019**, 19,	3.8	21
184	Low-Profile UWB 2-Port Antenna With High Isolation. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 55-58	3.8	20
183	Indium Tin Oxide Film Characterization at 0.1–20 GHz Using Coaxial Probe Method. *IEEE Access*, **2015**, 3, 648-652	3.5	20
182	Stiffness-Independent Highly Efficient On-Chip Extraction of Cell-Laden Hydrogel Microcapsules from Oil Emulsion into Aqueous Solution by Dielectrophoresis. *Small*, **2015**, 11, 5369-74	11	19
181	A Single On-Body Antenna as a Sensor for Cardiopulmonary Monitoring. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 930-933	3.8	19
180	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 7833-7841	4.9	18
179	Impedance Matched Ferrite Layers as Ground Plane Treatments to Improve Antenna Wide-Band Performance. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 263-266	4.9	18
178	Analytical and experimental evaluation of a novel wideband digital beamformer with on-site coding. *Journal of Electromagnetic Waves and Applications*, **2014**, 28, 1401-1429	1.3	17
177	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3458-3465	4.9	17
176	. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 645-648	3.8	17
175	Determining the Relative Permittivity of Deep Embedded Biological Tissues. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1694-1697	3.8	17
174	Numerical Analysis of Terahertz Emissions From an Ungated HEMT Using Full-Wave Hydrodynamic Model. *IEEE Transactions on Electron Devices*, **2016**, 63, 990-996	2.9	16
173	A Directive Resonator Antenna Using Degenerate Band Edge Crystals. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 799-803	4.9	16
172	Frequency-selective surface based bandpass filters in the near-infrared region. *Microwave and Optical Technology Letters*, **2004**, 41, 266-269	1.2	16
171	. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2018**, 2, 262-269	2.8	16
170	A Simple Equivalent Circuit Model for Ultrawideband Coupled Arrays. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 117-120	3.8	15

169	A Measurement Process to Characterize Natural and Engineered Low-Loss Uniaxial Dielectric Materials at Microwave Frequencies. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 217-223	4.1	15
168	Colorful Textile Antennas Integrated into Embroidered Logos. *Journal of Sensor and Actuator Networks*, **2015**, 4, 371-377	3.8	14
167	A Novel Slow-Wave Structure for High-Power K_{a} -Band Backward Wave Oscillators With Mode Control. *IEEE Transactions on Plasma Science*, **2015**, 43, 1879-1886	1.3	14
166	Omnidirectional Vest-Mounted Body-Worn Antenna System for UHF Operation. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 581-583	3.8	14
165	Frequency-Scaled UWB Inverted-Hat Antenna. *IEEE Transactions on Antennas and Propagation*, **2010** , 58, 2447-2451	4.9	14
164	An Improved Topology for Adaptive Agile Impedance Tuners. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 92-95	3.8	13
163	Experimental Validation of On-Site Coding Digital Beamformer With Ultra-Wideband Antenna Arrays. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 4408-4417	4.1	13
162	Ultra-wideband phased array for small satellite communications. *IET Microwaves, Antennas and Propagation*, **2017**, 11, 1234-1240	1.6	13
161	Cold Test Validation of Novel Slow Wave Structure for High-Power Backward-Wave Oscillators. *IEEE Transactions on Plasma Science*, **2016**, 44, 911-917	1.3	13
160	Computation of the Q Limits for Arbitrary-Shaped Antennas Using Characteristic Modes. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2637-2647	4.9	13
159	Novel Phaseless Gain Characterization for Circularly Polarized Antennas at mm-Wave and THz Frequencies. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 4263-4270	4.9	12
158	Fast Optimization of Through-Wall Radar Images Via the Method of Lagrange Multipliers. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 320-328	4.9	12
157	Circuit model based optimization of ultra-wideband arrays **2012**,		12
156	Multilayer Dielectric Resonator Antenna Operating at Degenerate Band Edge Modes. *IEEE Antennas and Wireless Propagation Letters*, **2009**, 8, 287-290	3.8	12
155	Hybrid Analysis of Electromagnetic Interference Effects on Microwave Active Circuits Within Cavity Enclosures. *IEEE Transactions on Electromagnetic Compatibility*, **2010**, 52, 745-748	2	12
154	Skin-Effect Self-Heating in Air-Suspended RF MEMS Transmission-Line Structures. *Journal of Microelectromechanical Systems*, **2006**, 15, 1622-1631	2.5	12
153	Bandwidth broadening of patch antennas using nonuniform substrates. *Microwave and Optical Technology Letters*, **2005**, 47, 421-423	1.2	12
152	Code Optimization for a Code-Modulated RF Front End. *IEEE Access*, **2015**, 3, 260-273	3.5	11

151	. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 723-726	3.8	11
150	A Novel Method of Deep Tissue Biomedical Imaging Using a Wearable Sensor. *IEEE Sensors Journal*, **2016**, 16, 265-270	4	11
149	Low-profile planar rectenna for batteryless RFID sensors **2010**,		11
148	Lumped Circuit Models for Degenerate Band Edge and Magnetic Photonic Crystals. *IEEE Microwave and Wireless Components Letters*, **2010**, 20, 4-6	2.6	11
147	Coupling onto Wires Enclosed in Cavities with Apertures. *Electromagnetics*, **2005**, 25, 655-678	0.8	11
146	. *IEEE Sensors Journal*, **2015**, 15, 5217-5221	4	10
145	Coding-based ultra-wideband digital beamformer with significant hardware reduction. *Analog Integrated Circuits and Signal Processing*, **2014**, 78, 691-703	1.2	10
144	Channel Decomposition Method for Designing Body-Worn Antenna Diversity Systems. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 254-262	4.9	10
143	. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5475-5483	4.9	9
142	Fully Passive Flexible Wireless Neural Recorder for the Acquisition of Neuropotentials from a Rat Model. *ACS Sensors*, **2019**, 4, 3175-3185	9.2	9
141	Simultaneous transmit and receive system architecture with four stages of cancellation **2015**,		9
140	Phase Error Evaluation in a Two-Path Receiver Front-End With On-Site Coding. *IEEE Access*, **2015**, 3, 55-63	3.5	9
139	Fabrication and characterization of anisotropic dielectrics for low-loss microwave applications. *Journal of Materials Science*, **2008**, 43, 1505-1509	4.3	9
138	Loss-Characterization and Guidelines for Embroidery of Conductive Textiles **2018**,		9
137	Half-Ring Helical Structure for Traveling Wave Tube Amplifiers. *IEEE Transactions on Plasma Science*, **2014**, 42, 3465-3470	1.3	8
136	A Wearable Wrap-Around Sensor for Monitoring Deep Tissue Electric Properties. *IEEE Sensors Journal*, **2014**, 14, 2447-2451	4	8
135	. *IEEE Transactions on Electron Devices*, **2017**, 64, 3863-3869	2.9	8
134	. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 2332-2335	3.8	8

133	Equivalent circuit for VO2 phase change material film in reconfigurable frequency selective surfaces. *Applied Physics Letters*, **2015**, 107, 253106	3.4	8
132	Frequency selective surfaces filters to enhance performance of Ka band applications. *Microwave and Optical Technology Letters*, **2014**, 56, 563-568	1.2	8
131	Numerical Analysis of a Wideband Thick Archimedean Spiral Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 168-171	3.8	8
130	Model-Corrected Microwave Imaging through Periodic Wall Structures. *International Journal of Antennas and Propagation*, **2012**, 2012, 1-7	1.2	8
129	E-fiber electronics for body-worn devices **2012**,		8
128	Surface Integral Equation Solutions for Modeling 3-D Uniaxial Media Using Closed-Form Dyadic Green Functions. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2381-2388	4.9	8
127	Novel materials for RF devices **2007**,		8
126	Array Decomposition-Fast Multipole Method for finite array analysis. *Radio Science*, **2004**, 39, n/a-n/a	1.4	8
125	Battery-free implantable insulin micropump operating at transcutaneously radio frequency-transmittable power. *Medical Devices & Sensors*, **2019**, 2, e10055	1.6	8
124	Wearable antennas using electronic textiles for RF communications and medical monitoring **2016**,		7
123	Radial line slot array antenna with vertical waveguide feed for F-band communication. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 193-199	1.6	7
122	Wi-Fi energy harvesting system using body-worn antennas **2014**,		7
121	EMI/EMC Analysis of Printed Circuit Boards Subject to Near-Zone Illuminations. *IEEE Transactions on Electromagnetic Compatibility*, **2009**, 51, 406-408	2	7
120	**2016**,		6
119	Low cost, power efficient, on-site coding receiver (OSCR) for ultra-wideband digital beamforming **2013**,		6
118	An extremely low profile, compact, and broadband tightly coupled patch array. *Radio Science*, **2012**, 47, n/a-n/a	1.4	6
117	A Viable Route for Dense TiO2 with a Low Microwave Dielectric Loss. *Journal of the American Ceramic Society*, **2010**, 93, 969-972	3.8	6
116	. *IEEE Open Journal of Antennas and Propagation*, **2020**, 1, 598-603	1.9	6

115	Analysis of plasma-modes of a gated bilayer system in high electron mobility transistors. *Journal of Applied Physics*, **2016**, 119, 193102	2.5	6
114	Resonant tunneling assisted propagation and amplification of plasmons in high electron mobility transistors. *Journal of Applied Physics*, **2016**, 119, 013102	2.5	6
113	Curved Ring-Bar Slow-Wave Structure for Wideband MW-Power Traveling Wave Tubes. *IEEE Transactions on Plasma Science*, **2016**, 44, 903-910	1.3	6
112	A Novel Method to Mitigate Real-Imaginary Image Imbalance in Microwave Tomography. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 1328-1337	5	6
111	. *IEEE Open Journal of Antennas and Propagation*, **2021**, 2, 110-117	1.9	6
110	A modified Gauss-Newton algorithm for fast microwave imaging using near-field probes. *Microwave and Optical Technology Letters*, **2017**, 59, 1394-1400	1.2	5
109	A 2.45 GHz RF Power Harvesting System Using Textile-Based Single-Diode Rectennas **2019**,		5
108	Interference Mitigation for 5G Millimeter-Wave Communications. *IEEE Access*, **2019**, 7, 7448-7455	3.5	5
107	. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 935-938	3.8	5
106	A 10:1 bandwidth textile-based conformal spiral antenna with integrated planar balun **2013**,		5
105	Flexible and stretchable UHF RFID tag antennas for automotive tire sensing **2014**,		5
104	Partially coupled microstrip lines for printed antenna miniaturization **2009**,		5
103	A Broadband Multistage Self-Interference Canceller for Full-Duplex MIMO Radios. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 2253-2266	4.1	5
102	A Cost-Effective Phaseless Pattern Measurement Method for a CP Antenna in a Submillimeter-Wave Band. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1683-1686	3.8	4
101	Ultra-wideband dual-linear polarized phased array with 60□scanning for simultaneous transmit and receive systems **2017**,		4
100	All electronic propagation loss measurement and link budget analysis for 350 GHz communication link. *Microwave and Optical Technology Letters*, **2017**, 59, 415-423	1.2	4
99	. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2019**, 3, 199-205	2.8	4
98	Mechanical and thermal tests of textile antennas for load bearing applications **2016**,		4

97	4 elements UWB MIMO antenna for wireless applications **2017**,		4
96	Bandwidth reconfigurable THz filter employing phase-change material **2015**,		4
95	Bandwidth Reconfigurable Metamaterial Arrays. *International Journal of Antennas and Propagation*, **2014**, 2014, 1-17	1.2	4
94	Reconfigurable THz filters with integrated micro-heater **2014**,		4
93	Printed coupled lines with lumped loads for realizing degenerate band edge and magnetic photonic crystal modes **2008**,		4
92	Radar imaging through cinder block walls and other periodic structures **2008**,		4
91	Toward Direct RF Sampling: Implications for Digital Communications. *IEEE Microwave Magazine*, **2020**, 21, 43-52	1.2	4
90	Techniques for Achieving High Isolation in RF Domain for Simultaneous Transmit and Receive. *IEEE Open Journal of Antennas and Propagation*, **2020**, 1, 358-367	1.9	4
89	Ultra-wideband array in PCB for millimeter-wave 5G and ISM **2017**,		3
88	. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2018**, 3, 29-36	1.5	3
87	Experimental Validation of Slow-Wave Phenomena in Curved Ring-Bar Slow-Wave Structure. *IEEE Transactions on Plasma Science*, **2016**, 44, 1794-1799	1.3	3
86	An ultra-wideband millimeter-wave phased array **2016**,		3
85	Compact On-Body Antennas for Wearable Communication Systems **2019**,		3
84	**2015**,		3
83	MEMS tunable THz filters for sensing **2013**,		3
82	A novel low-profile portable radar system for high resolution through-wall radar imaging **2010**,		3
81	Multiple body-worn antenna diversity **2009**,		3
80	High gain lightweight array for harmonic portable RFID radar. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		3

79	Unidirectional transmission characteristics of printed magnetic photonic crystals **2008**,		3
78	Dual-polarised wideband tightly coupled dipole array for airborne applications. *IET Microwaves, Antennas and Propagation*, **2020**, 14, 1476-1480	1.6	3
77	RFID tags for in-situ tire monitoring **2016**,		3
76	An Ergonomic Wireless Charging System for Integration With Daily Life Activities. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 947-954	4.1	3
75	Body-worn 67:1 bandwidth antenna using 3 overlapping dipole elements **2017**,		2
74	Room temperature detection of plasma resonances using multiple 2DEG channels in HEMT **2015**,		2
73	Full-wave hydrodynamic model for predicting THz emission from grating-gate RTD-gated plasma wave HEMTs **2015**,		2
72	A Wideband, Scanning Array of Four-Arm Spiral Elements for Simultaneous Transmit and Receive. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 537-541	3.8	2
71	Tightly-coupled array with tunable BW using reconfigurable FFS/superstrate **2016**,		2
70	Broadband and flexible textile RFID tags for tires **2014**,		2
69	Full-wave optimization of nitride-based resonant-tunneling diodes for terahertz amplification **2014**,		2
68	Novel Phased-Array Scanning Employing a Single Feed Without Using Individual Phase Shifters [AMTA Corner]. *IEEE Antennas and Propagation Magazine*, **2013**, 55, 290-296	1.7	2
67	A microwave tomographic technique to enhance real-imaginary permittivity image quality **2017**,		2
66	A high-sensitivity fully-passive wireless neurosensing system for unobtrusive brain signal monitoring **2015**,		2
65	High-accuracy conductive textiles for embroidered antennas and circuits **2015**,		2
64	Fully Overlapping Decomposition Method for Finite-Element Modeling of Small Features. *Electromagnetics*, **2014**, 34, 253-269	0.8	2
63	Realization of a novel on-site coding digital beamformer using FPGAs **2014**,		2
62	GSM and Wi-Fi textile antenna for high data rate communications **2012**,		2

61	Full-wave electromagnetic modeling of terahertz RTD-gated HEMTs **2013**,		2
60	New frontiers for commercial applications of terahertz **2011**,		2
59	Optically transparent RF-EO aperture with 20:1 bandwidth. *Microwave and Optical Technology Letters*, **2011**, 53, 1863-1866	1.2	2
58	Embroidered e-fiber-polymer composites for conformal and load bearing antennas **2010**,		2
57	Broadband THz filters for THz sensing devices **2012**,		2
56	UTD ray tracing for building imaging studies **2008**,		2
55	Printing of Patterned Copper on Pliable, Microtextured PDMS/Ceramic Composites. *Materials Research Society Symposia Proceedings*, **2008**, 1078, 130101		2
54	Through-wall building image improvement via signature-based CLEAN **2008**,		2
53	Periodic Materials & Printed Structures for Miniature Antennas **2007**,		2
52	An Algorithm to Image Individual Phase Fractions of Multiphase Flows Using Electrical Capacitance Tomography. *IEEE Sensors Journal*, **2020**, 20, 14924-14931	4	2
51	Low cost ultra-wideband millimeter-wave array **2016**,		2
50	. *IEEE Open Journal of Antennas and Propagation*, **2021**, 2, 163-169	1.9	2
49	. *IEEE Open Journal of Antennas and Propagation*, **2021**, 2, 718-725	1.9	2
48	A 60 GHz phased array with measurement and de-embedding techniques. *Analog Integrated Circuits and Signal Processing*, **2018**, 97, 557-563	1.2	2
47	**2018**,		2
46	Dynamically Reconfigurable and Packable Multifunctional Origami Antennas and Arrays **2020**,		1
45	Challenges in Clock Synchronization for On-Site Coding Digital Beamformer. *International Journal of Reconfigurable Computing*, **2017**, 2017, 1-8	2.1	1
44	Significant efficiency enhancements in high power backward wave oscillators using inhomogeneous slow wave structures **2017**,		1

43	An RF-driven lightweight implantable insulin pump **2018**,		1
42	**2019**,		1
41	**2019**,		1
40	Circularly-polarized horn antennas for terahertz communication using differential-mode dispersion in hexagonal waveguides **2017**,		1
39	Error Correction in Ku-Band Phased Array Measurements. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1084-1087	3.8	1
38	Multi-band multi-beam performance evaluation of on-site coding digital beamformer using ultra-wideband antenna array **2017**,		1
37	UWB arrays with tunable band rejection **2015**,		1
36	Determining the relative permittivity of masses in the human body **2012**,		1
35	Demonstration of unidirectional printed structures emulating Magnetic Photonic Crystals **2010**,		1
34	Susceptibility Analysis of Printed Circuit Boards Within Cavity Enclosures. *Electromagnetics*, **2011**, 31, 419-428	0.8	1
33	A miniaturization technique for wideband tightly coupled phased arrays. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		1
32	Improving the read range of RFID sensors **2009**,		1
31	Embroidered textiles for RF electronics and medical sensors **2012**,		1
30	Validation of CW THz spectral measurements **2012**,		1
29	UWB low profile antennas using ferrite loaded GP **2008**,		1
28	Balanced Wideband Impedance Transformer (BWIT) for Common-Mode Resonance Cancellation in UWB Dipoles over a Ground Plane **2020**,		1
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