

# Tatsuo Itoh

## List of Publications by Citations

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257  
papers

5,723  
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33  
h-index

70  
g-index

337  
ext. papers

7,339  
ext. citations

3.1  
avg. IF

6.21  
L-index

#	Paper	IF	Citations
257	<b>2005,</b>		946
256	Leaky-Wave Antennas. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 2194-2206	14.3	269
255	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 868-876	4.9	249
254	Substrate Integrated Waveguide Loaded by Complementary Split-Ring Resonators and Its Applications to Miniaturized Waveguide Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2211-2223	4.1	224
253	Metamaterial-Based Antennas. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 2271-2285	14.3	218
252	Design and Characterization of Miniaturized Patch Antennas Loaded With Complementary Split-Ring Resonators. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 772-785	4.9	210
251	Composite Right/Left-Handed Substrate Integrated Waveguide and Half Mode Substrate Integrated Waveguide Leaky-Wave Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 767-775	4.9	202
250	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2008</b> , 50, 25-39	1.7	192
249	A Novel Wideband Common-Mode Suppression Filter for Gigahertz Differential Signals Using Coupled Patterned Ground Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 848-855	4.1	177
248	Compact Circularly-Polarized Patch Antenna Loaded With Metamaterial Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 4329-4333	4.9	132
247	Miniaturized Substrate Integrated Waveguide Slot Antennas Based on Negative Order Resonance. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 3856-3864	4.9	110
246	High Isolation and Compact Diplexer Using the Hybrid Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 551-553	2.6	109
245	Forward coupling phenomena between artificial left-handed transmission lines. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5560-5565	2.5	107
244	Compact Quarter-Wave Resonator and Its Applications to Miniaturized Diplexer and Triplexer. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 260-269	4.1	82
243	Substrate Integrated Waveguide Loaded by Complementary Split-Ring Resonators for Miniaturized Diplexer Design. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2011</b> , 21, 10-12	2.6	80
242	Substrate Integrated Composite Right-/Left-Handed Leaky-Wave Structure for Polarization-Flexible Antenna Application. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 760-771	4.9	68
241	Compact Hybrid Resonator With Series and Shunt Resonances Used in Miniaturized Filters and Balun Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 390-402	4.1	67

240	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 1330-1342	4.1	64
239	Antenna Miniaturization Using Slow Wave Enhancement Factor from Loaded Transmission Line Models. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 48-57	4.9	55
238	Metasurface external cavity laser. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 221105	3.4	52
237	Miniaturized Dual-Band Directional Couplers Using Composite Right/Left-Handed Transmission Structures and Their Applications in Beam Pattern Diversity Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 1207-1215	4.1	51
236	Planar Ultra-Wideband Antennas in Ku- and K-Band for Pattern or Polarization Diversity Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 2886-2895	4.9	49
235	Dielectric-Resonator-Based Composite Right/Left-Handed Transmission Lines and Their Application to Leaky Wave Antenna. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 2259-2269	4.1	45
234	Vivaldi Antenna With Pattern Diversity for 0.7 to 2.7 GHz Cellular Band Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 247-250	3.8	40
233	A novel smart antenna system implementation for broad-band wireless communications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2002</b> , 50, 600-606	4.9	40
232	Multilayer Planar Tunable Filter With Very Wide Tuning Bandwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 2864-2871	4.1	39
231	Promising Future of Metamaterials. <i>IEEE Microwave Magazine</i> , <b>2012</b> , 13, 39-56	1.2	37
230	Characteristics and potential applications of nonlinear left-handed transmission lines. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 40, 471-473	1.2	37
229	Compact and Tunable Slot-Loop Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1394-1397	4.9	35
228	Pseudo-Traveling-Wave Resonator With Magnetically Tunable Phase Gradient of Fields and Its Applications to Beam-Steering Antennas. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3043-3054	4.1	34
227	Impedance-Transforming Symmetric and Asymmetric DC Blocks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2463-2474	4.1	34
226	Wide-band/angle Blazed Surfaces using Multiple Coupled Blazing Resonances. <i>Scientific Reports</i> , <b>2017</b> , 7, 42286	4.9	33
225	The challenge of homogenization in metamaterials. <i>New Journal of Physics</i> , <b>2005</b> , 7, 167-167	2.9	33
224	Half-Mode Cavity-Based Planar Filtering Antenna With Controllable Transmission Zeroes. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 833-836	3.8	32
223	Evolution of Composite Right/Left-Handed Leaky-Wave Antennas. <i>Proceedings of the IEEE</i> , <b>2011</b> , 99, 1746-1754	14.3	32

222	Demonstration of Negative Refraction in a Cutoff Parallel-Plate Waveguide Loaded With 2-D Square Lattice of Dielectric Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 1280-1287	4.1	31
221	Isotropic left handed material at optical frequency with dielectric spheres embedded in negative permittivity medium. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 161122	3.4	30
220	Radiation Model for Terahertz Transmission-Line Metamaterial Quantum-Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2012</b> , 2, 323-332	3.4	29
219	Unoxidized porous Si as an isolation material for mixed-signal integrated circuit applications. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 4226-4231	2.5	29
218	Experimental demonstration of transparency in the ENG-MNG pair in a CRLH transmission-line implementation. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 46, 476-481	1.2	29
217	Dual-Band Bandpass and Bandstop Filters Using Composite Right/Left-Handed Metamaterial Transmission Lines <b>2006</b> ,		28
216	Focusing metasurface quantum-cascade laser with a near diffraction-limited beam. <i>Optics Express</i> , <b>2016</b> , 24, 24117-24128	3.3	27
215	Low-Profile Dual-Band Filtering Antenna Using Common Planar Cavity. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1081-1084	3.8	26
214	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 1027-1037	4.1	26
213	Terahertz quantum-cascade laser with active leaky-wave antenna. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 14111-14115	3.5	26
212	Zero-Index Terahertz Quantum-Cascade Metamaterial Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 1091-1098	2	25
211	. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 593-595	2.6	24
210	Folded Strip/Slot Antenna With Extended Bandwidth for WLAN Application. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 673-676	3.8	24
209	Metasurface quantum-cascade laser with electrically switchable polarization. <i>Optica</i> , <b>2017</b> , 4, 468	8.6	23
208	Super Compact Low-Temperature Co-Fired Ceramic Bandpass Filters Using the Hybrid Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2896-2907	4.1	22
207	Low-Profile Diplexing Filter/Antenna Based on Common Radiating Cavity With Quasi-Elliptic Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1783-1787	3.8	21
206	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 1401-1409	4.1	21
205	Dispersion Analysis and Design of Planar Electromagnetic Bandgap Ground Plane for Broadband Common-Mode Suppression. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 772-774	2.6	19

204	Dispersion engineered metamaterial-based transmission line for conformal surface application <b>2008,</b>		19
203	Polarization Control by Using Anisotropic 3-D Chiral Structures. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4687-4694	4.9	18
202	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 3148-3157	4.1	18
201	Very Compact and Low-Profile LTCC Unbalanced-to-Balanced Filters With Hybrid Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 1925-1936	4.1	16
200	Composite right/left-handed substrate integrated waveguide and half-mode substrate integrated waveguide <b>2009,</b>		16
199	The effects of the coupled slotline mode and air-bridges on CPW and NLC waveguide discontinuities. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1995</b> , 43, 2759-2765	4.1	16
198	Dual-Band Composite Right/Left-Handed (CRLH) Phased-Array Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 732-735	3.8	15
197	Leaky and bound modes in terahertz metasurfaces made of transmission-line metamaterials. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 033105	2.5	15
196	Compact Dual-Band Antenna Using an Anisotropic Metamaterial <b>2006,</b>		15
195	Terahertz Metasurface Quantum-Cascade VECSELs: Theory and Performance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 1-12	3.8	14
194	Terahertz composite right-left handed transmission-line metamaterial waveguides. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 071101	3.4	14
193	Active terahertz quantum-cascade composite right/left-handed metamaterial. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 021103	3.4	14
192	Demonstration of reverse Doppler effect using a left-handed transmission line. <i>Microwave and Optical Technology Letters</i> , <b>2006</b> , 48, 545-547	1.2	14
191	Negative Refraction in a Cut-Off Parallel-Plate Waveguide Loaded with Two-Dimensional Lattice of Dielectric Resonators <b>2006,</b>		14
190	Analysis and Application of Photonic Band-Gap (PBG) Structures for Microwave Circuits. <i>Electromagnetics</i> , <b>1999</b> , 19, 241-254	0.8	14
189	A 60-GHz CMOS Transceiver With On-Chip Antenna and Periodic Near Field Directors for Multi-Gb/s Contactless Connector. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 404-406	2.6	13
188	Dual-band leaky wave antenna with filtering capability based on extended-composite right/left-handed transmission lines <b>2013,</b>		13
187	A C-band tunable oscillator based on complementary coupled resonator using substrate integrated waveguide cavity <b>2014,</b>		13

186	Dual-Band Multi-Pole Directional Filter for Microwave Multiplexing Applications. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2011</b> , 21, 643-645	2.6	13
185	New Isolation Circuits of Compact Impedance-Transforming 3-dB Baluns for Theoretically Perfect Isolation and Matching. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	13
184	Broadband Small Antenna for Portable Wireless Application <b>2008</b> ,		13
183	A Miniaturized CPW-Fed Capacitor-Loaded Slot-Loop Antenna <b>2007</b> ,		13
182	Envelope-finite-element (EVFE) technique - a more efficient time-domain scheme. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2001</b> , 49, 2241-2247	4.1	13
181	Beam Scanning Realized by Coupled Modes in a Single-Patch Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1077-1080	3.8	12
180	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 2683-2696	4.1	12
179	Dual-Band Composite Right/Left-Handed Metamaterial Concept. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 248-250	2.6	12
178	2-D Frequency-Controlled Beam-Steering by a Leaky/Guided-Wave Transmission Line Array <b>2006</b> ,		12
177	. <i>IEEE Transactions on Electron Devices</i> , <b>1988</b> , 35, 810-817	2.9	12
176	Dispersion-Free and Tunable Nonreciprocities in Composite Right-/Left-Handed Metamaterials and Their Applications to Beam Squint Reduction in Leaky-Wave Antennas. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2019</b> , 67, 2227-2237	4.1	11
175	Magnetic-Current-Loop-Induced Electric Dipole Antenna Based on Substrate Integrated Waveguide Cavity. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 519-522	3.8	11
174	A dual-band oscillator with reconfigurable cavity-backed complementary split-ring resonator <b>2012</b> ,		11
173	Optimization and Modeling of Sparse Conformal Retrodirective Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 977-981	4.9	11
172	Dual-mode compact microstrip antenna based on fundamental backward wave		11
171	Characteristics of a generalized fin-line for millimeter wave integrated circuits. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1981</b> , 2, 427-436		11
170	Miniaturized Wideband CP Antenna Based on Metaresonator and CRLH-TLs for 5G New Radio Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 74-83	4.9	11
169	Dual-Band Filtering Antenna With Novel Transmission Zero Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 2469-2473	3.8	11

168	Ultraminiature Circularly Polarized RFID Antenna Inspired by Crossed Split-Ring Resonator. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 4196-4207	4.9	10
167	Series Feed Networks for Dual-Polarized Frequency Scanning Phased Array Antenna Based on Composite Right/Left-Handed Transmission Line. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 5133-5143	4.1	10
166	Nonreciprocal metamaterial for non-squinting leaky-wave antenna with enhanced beam steering <b>2013</b> ,		10
165	X-band Left Handed Phase Shifter using Thin Film Ba <sub>0.25</sub> SR <sub>0.75</sub> TiO <sub>3</sub> Ferroelectric Varactors <b>2006</b> ,		10
164	Multistage Directional Filter Based on Band-Reject Filter With Isolation Improvement Using Composite Right-/Left-Handed Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3950-3958	4.1	9
163	Single-layer fully-planar extended-composite right-/left-handed transmission lines based on substrate integrated waveguides for dual-band and quad-band applications. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2013</b> , 5, 213-220	0.8	9
162	Metamaterial Transmission Line Based Bandstop and Bandpass Filter Designs Using Broadband Phase Cancellation <b>2006</b> ,		9
161	Lossy transmission line metamaterials. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 43, 112-114	1.2	9
160	Open-End Microstrip Line Terminations Using Lossy Gray-Scale Inkjet Printing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 4861-4870	4.1	8
159	Negative group delay circuit based on a multisection asymmetrical directional coupler <b>2013</b> ,		8
158	Zeroth-Order Resonators With Variable Reactance Loads at Both Ends. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 612-618	4.1	8
157	Anisotropic 3-D Composite Right/Left-Handed Metamaterial Structures Using Dielectric Resonators and Conductive Mesh Plates. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 1766-1773	4.1	8
156	A Sparse Retrodirective Transponder Array With a Time Shared Phase-Conjugator. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 2367-2372	4.9	8
155	Enhanced forward coupling phenomena between microstrip lines on periodically patterned ground plane		8
154	An overview on numerical techniques for modeling miniaturized passive components. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>1986</b> , 41, 449-462	2	8
153	Mode Analysis of Phase-Constant Nonreciprocity in Ferrite-Embedded CRLH Metamaterials. <i>IEICE Transactions on Electronics</i> , <b>2013</b> , E96.C, 1263-1272	0.4	8
152	Resonant blazed metasurface gratings <b>2016</b> ,		8
151	Planar Resonant Blazed Gratings From a Circuit Model Standpoint. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 2765-2778	4.9	7

150	Compact Endfire Coupled-Mode Patch Antenna With Vertical Polarization. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 5885-5891	4.9	7
149	A Multiharmonic Absorption Circuit Using Quasi-Multilayered Striplines for RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 109-118	4.1	7
148	Coupled Composite Right/Left-Handed Leaky-Wave Transmission Lines Based on Common/Differential-Mode Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	7
147	New Approach to Hybrid Multiplexer Using Composite Right-Left Handed Lines. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2011</b> , 21, 580-582	2.6	7
146	A re-radiating CRLH-transmission line leaky wave antenna using distributed amplifiers <b>2009</b> ,		7
145	Electronically controlled metamaterial-based leaky-wave transmission-line for conformal surface applications <b>2009</b> ,		7
144	Adaptive Robust DOA Estimation for a 60-GHz Antenna-Array System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2007</b> , 56, 3231-3237	6.8	7
143	Leaky-Wave Steering in a Two-Dimensional Metamaterial Structure Using Wave Interaction Excitation <b>2006</b> ,		7
142	Evolutionary generation of 3-D line-segment circuits with a broadside-coupled multiconductor transmission-line model. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 2045-2054	4.1	7
141	Multilayered open dielectric waveguide with a gyrotropic layer. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1981</b> , 2, 1-14		7
140	A compact branch line coupler using novel periodically grounded slow-wave structure <b>2016</b> ,		7
139	A COMPACT SINGLE-ELEMENT PATTERN RECONFIGURABLE ANTENNA WITH WIDE-ANGLE SCANNING TUNED BY A SINGLE VARACTOR. <i>Progress in Electromagnetics Research C</i> , <b>2019</b> , 92, 137-150	0.9	6
138	A Millimeter-Wave CMOS Transceiver With Digitally Pre-Distorted PAM-4 Modulation for Contactless Communications. <i>IEEE Journal of Solid-State Circuits</i> , <b>2019</b> , 54, 1600-1612	5.5	6
137	A NOTE ON RADIATION LOSS OF ZEROth ORDER RESONATORS. <i>Progress in Electromagnetics Research C</i> , <b>2008</b> , 2, 109-116	0.9	6
136	Composite Right/Left Handed Metamaterial Structures Composed of Dielectric Resonators and Parallel Mesh Plates. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		6
135	Interleaved Retrodirective Sub-Arrays for Null-Steering Interference Rejection. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		6
134	Enhancement of Phase-Shifting Nonreciprocity in Microstrip-Line-Based Metamaterials by Using a Combination of Their Curvatures and Asymmetrical Insertion of Stubs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 5123-5132	4.1	5
133	A New Cavity Resonance Assisted by Anisotropic Metasurfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 3224-3233	4.1	5



132	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 146-158	2.5	5
131	An alternative technique in designing a low-profile two-pole bandpass Frequency Selective Surface (FSS) using aperture coupling interlayer <b>2013</b> ,		5
130	Phase-constant-nonreciprocal composite right/left-handed metamaterials based on coplanar waveguides. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E519	2.5	5
129	Corrections to [Impedance-Transforming Symmetric and Asymmetric DC Blocks][Sep 10 2463-2474]. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 207-207	4.1	5
128	Dual-mode leaky-wave excitation in symmetric composite right/left-handed structure with center vias <b>2010</b> ,		5
127	Miniaturized zeroth order resonance antenna over a reactive impedance surface <b>2011</b> ,		5
126	Miniaturized cavity-backed dual-polarized slot antenna <b>2012</b> ,		5
125	Diagnosis of toxic shock syndrome by two different systems; clinical criteria and monitoring of TSST-1-reactive T cells. <i>Microbiology and Immunology</i> , <b>2008</b> , 52, 513-21	2.7	5
124	A Sparse Ka-Band Digital Beamforming Integrated Receiver Array <b>2006</b> ,		5
123	A two-dimensional retrodirective array using slot ring FET mixers <b>1996</b> ,		5
122	Enhancement of Phase-Shifting Nonreciprocity in Metamaterial Lines With Comb-Shaped Capacitive Stubs on the Normally Magnetized Ferrite Substrate. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-5	2	4
121	Electronically-tunable resonant blazed metasurface grating <b>2017</b> ,		4
120	Mu-negative, double-negative, and composite right/left handed metamaterials based on dielectric resonators. <i>IEICE Electronics Express</i> , <b>2012</b> , 9, 65-80	0.5	4
119	Hybrid combination of dual band isolation circuits based on conventional and CRLH transmission lines for triplexers <b>2012</b> ,		4
118	New approach to multi-stage directional filter based on band-reject filter design <b>2012</b> ,		4
117	Dual-fed distributed amplifier-based CRLH-leaky wave antenna for gain-enhanced power combining <b>2012</b> ,		4
116	A novel miniaturized polarization orthogonalizing active retrodirective antenna array for satellite use <b>2013</b> ,		4
115	Novel microstrip diplexer for ultra-wide-band (UWB) and wireless LAN (WLAN) bands. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2013</b> , 27, 1338-1350	1.3	4

114	A power efficient active integrated antenna. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 1240-1243		4
113	Dual-mode tunable filter with simple bandwidth control scheme <b>2009</b> ,		4
112	Novel diplexer synthesis using the composite right/left-handed phase-advance/delay lines <b>2009</b> ,		4
111	Tri-band isolation circuits based on double-Lorentz transmission lines for quadruplexers <b>2012</b> ,		4
110	Widely tunable stacked microstrip antenna using varactor diodes <b>2008</b> ,		4
109	Power Combining Tunnel Diode Oscillators using Metamaterial Transmission Line at Infinite Wavelength Frequency <b>2006</b> ,		4
108	A Scheme for Hardware Reduction in Wireless Retrodirective Transponders <b>2006</b> ,		4
107	Microwave Circuits Based on Negative Refractive Index Material Structures <b>2003</b> ,		4
106	Characterization of leaky wave antenna and active gain enhancement <b>1996</b> ,		4
105	Characterization of power-dependent high-T <sub>c</sub> superconducting microstrip line by modified spectral domain method. <i>Radio Science</i> , <b>1993</b> , 28, 913-918	1.4	4
104	Progress of a tunable active bandpass filter. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>1992</b> , 47, 499-507	2	4
103	Nonperiodic Metasurfaces for Retroreflection of TE/TM and Circularly Polarized Waves. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 6193-6203	4.9	4
102	DEVELOPMENT OF A CIRCULARLY POLARIZED HMSIW ANTENNA. <i>Progress in Electromagnetics Research Letters</i> , <b>2019</b> , 87, 81-87	0.5	4
101	Electroacupuncture to Increase Neuronal Stem Cell Growth. <i>Medical Acupuncture</i> , <b>2020</b> , 32, 16-23	1.1	3
100	Retrodirective Array Immune to Incident Waves With Arbitrary Polarizations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 6008-6013	4.9	3
99	Active complementary coupled resonator for low phase noise X-band oscillator <b>2014</b> ,		3
98	Beam antenna with circular polarization rotation switching based on passive components <b>2014</b> ,		3
97	A simple self-powered AM-demodulator for wireless power/data transmission <b>2012</b> ,		3

96	Millimeter-wave antennas. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>1997</b> , 52, 178-187	2	3
95	Left-handed band pass filter realized by coupled negative order resonators <b>2008</b> ,		3
94	Metamaterial-Based Components for a Compact Dual-Band Beam Pattern Diversity System <b>2008</b> ,		3
93	Evanescent-mode dielectric metamaterial structure excited by NRD guide and its application to leaky wave antenna <b>2007</b> ,		3
92	Leaky wave radiation from left-handed transmission lines composed of a cut-off parallel-plate waveguide loaded with dielectric resonators <b>2006</b> ,		3
91	Time domain global modelling of EM propagation in semiconductor using irregular grids. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2002</b> , 15, 355-370	1	3
90	Power Amplifier Approaches for High Efficiency and Linearity 189-227		3
89	Large signal quantum-well oscillator design <b>1993</b> ,		3
88	Design considerations for high-TC superconductor microstrip lines based on current distributions. <i>Microwave and Optical Technology Letters</i> , <b>1991</b> , 4, 302-304	1.2	3
87	Laser Tuning of a Planar Active Band-Pass Filter using MESFETs <b>1991</b> ,		3
86	ANALYSIS OF A SUSPENDED PATCH ANTENNA EXCITED BY AN INVERTED MICROSTRIP LINE. <i>Electromagnetics</i> , <b>1983</b> , 3, 289-298	0.8	3
85	TEM reflection from a flanged and dielectric-filled parallel-plate waveguide. <i>Radio Science</i> , <b>1974</b> , 9, 849-855		3
84	Transmission Line Metamaterial-Inspired Circularly Polarized RFID Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 964-968	3.8	3
83	Miniaturized Circularly Polarized Periodically Structured Surface Antenna for RFID Application Inspired by SRR. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	3
82	Impulse response analysis of carrier-modulated multiband RF-interconnect (MRFI). <i>Analog Integrated Circuits and Signal Processing</i> , <b>2017</b> , 93, 395-413	1.2	2
81	Demonstration of Dual-band Nonreciprocal Composite Right/Left-Handed Transmission Lines with Unidirectional Wavenumber Vectors <b>2019</b> ,		2
80	150-GHz CMOS TX/RX With Digitally Predistorted PAM-4 Modulation for Terahertz Contactless/Plastic Waveguide Communications. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 10, 370-382	3.4	2
79	Coaxial Right/Left-Handed Transmission Line for Electronic Beam Steering in the Slotted Waveguide Antenna Stiffened Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 773-778	4.1	2

78	Isotropic 3-D cubic CRLH metamaterials using dielectric resonators and metallic jungle gym structure <b>2013</b> ,		2
77	Compact dual-band filtering antenna based on capacitor loaded patch radiator <b>2017</b> ,		2
76	Low-profile omnidirectional antennas based on pseudo-traveling-wave resonance using nonreciprocal metamaterials <b>2017</b> ,		2
75	Active diplexer based on isolation circuits imbedded low noise amplifiers <b>2015</b> ,		2
74	Study and analysis of contiguous channel triplexer based on combining method of two filtering circuits using CRLH and RH isolation circuits. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2014</b> , 6, 287-295	0.8	2
73	Polarization friendly retrodirective antenna array <b>2012</b> ,		2
72	A high gain active antenna array using dual-fed distributed amplifier-based CRLH-leaky wave antennas <b>2012</b> ,		2
71	Nonreciprocal phase-shift CRLH transmission lines using geometrical asymmetry with periodically inserted double shunt stubs <b>2012</b> ,		2
70	Tri-band isolation circuits using both stop-band and pass-band of double-Lorentz transmission lines for quadruplexers <b>2013</b> ,		2
69	Miniaturized dual-band substrate integrated waveguide filters using complementary split-ring resonators <b>2011</b> ,		2
68	Circularly polarized composite right/left-handed leaky-wave antenna <b>2010</b> ,		2
67	Application of composite right/left-handed half-mode substrate integrated waveguide to the design of a dual-band rat-race coupler <b>2010</b> ,		2
66	Composite right/left-handed leaky-wave antenna for concave surfaces <b>2009</b> ,		2
65	Novel fully-planar extended-composite right/left handed transmission line based on substrate integrated waveguide for multi-band applications <b>2012</b> ,		2
64	Approach of Metamaterial-Based Quarter-Wave Resonator and Its Application to Very Compact LTCC Bandpass Filter. <i>IEICE Transactions on Electronics</i> , <b>2010</b> , E93-C, 1078-1088	0.4	2
63	Integrated hardware reduction schemes for retrodirective array architectures <b>2008</b> ,		2
62	Metamaterials for RF applications <b>2008</b> ,		2
61	Novel Design Technique for A Low Noise Receiver Front End With Integrated Circularly Polarized Patch Antenna <b>2000</b> ,		2

60	A Novel Microstrip to Coplanar Waveguide Transition for Flip-Chip Interconnection using Electromagnetic Coupling <b>1998</b> ,		2
59	UC-PBG Substrate for Planar Antennas <b>1999</b> ,		2
58	Surface wave excitation of a dielectric slab by a Yagi-Uda slot array antenna <b>1996</b> ,		2
57	Analysis and application of nonleaky uniplanar structures with conductor backing. <i>The International Executive</i> , <b>1996</b> , 6, 319-327		2
56	Second harmonic uniplanar active integrated antenna array with strong coupling <b>1993</b> ,		2
55	Optical Interaction of Active Integrated Antennas <b>1994</b> ,		2
54	Branch-Line Hybrid-Rings with Coupled-Lines <b>1994</b> ,		2
53	An analysis of distributed Gunn effect. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1981</b> , 2, 883-904		2
52	Two-Degree-of-Freedom Control of Field Distribution on Nonreciprocal Metamaterial-Line Resonators and Its Applications to Polarization-Plane-Rotation and Beam- Scanning Leaky-Wave Antennas. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 70, 50-61	4.1	2
51	Broadband Continuous Tuning of a THz Quantum-Cascade VECSEL <b>2017</b> ,		2
50	Metamaterial-based, miniaturised circularly polarised antennas for RFID application. <i>IET Microwaves, Antennas and Propagation</i> , <b>2021</b> , 15, 547-559	1.6	2
49	Non-periodic Metasurface for Retroreflection of Circularly Polarized Wave <b>2019</b> ,		1
48	Studies of realizing low side lobe levels of composite right/left-handed SIW leaky-wave antennas <b>2015</b> ,		1
47	Unit cell block including dielectric cube wrapped with metallic wire mesh for 3-D isotropic CRLH metamaterials <b>2015</b> ,		1
46	Study of high efficiency and low sidelobe level CRLH leaky-wave antenna based on short-end and tapered cells <b>2014</b> ,		1
45	Dielectric Field Enhancer for Reconfiguring the Beam Pattern and Gain of an Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4426-4429	4.9	1
44	Combining method of two filtering circuits based on isolation circuits for five-channel multiplexers <b>2013</b> ,		1
43	Gain-enhanced distributed amplifier-based CRLH-leaky wave antenna for quasi-resonant power recycling scheme <b>2011</b> ,		1

42	Multilayered Volumetric Composite Right/Left Handed Metamaterial Structures Composed of Dielectric Resonators and Parallel Mesh Plates. <i>IEICE Transactions on Electronics</i> , <b>2010</b> , E93-C, 1063-1071 <sup>0.4</sup>	1
41	Lumped isolation circuits for improvement of matching and isolation in three-port balun band-pass filter <b>2010</b> ,	1
40	Metamaterial-inspired broadband mushroom antenna <b>2010</b> ,	1
39	Transmission-line metamaterial antennas for THz quantum-cascade lasers <b>2012</b> ,	1
38	Dual polarized widely tunable stacked microstrip antenna using varactor diodes <b>2009</b> ,	1
37	Metamaterials for Antenna Applications385-412	1
36	A Ring-Laser Type Quasi-Optical Oscillator Using Leaky-Wave Antenna <b>1997</b> ,	1
35	Optical techniques for active integrated antenna circuits. <i>Optical and Quantum Electronics</i> , <b>1998</b> , 30, 1065-1078 <sup>1</sup>	1
34	A sparse conformal retrodirective array for UAV application <b>2008</b> ,	1
33	A broadband microstrip-to-CPS transition using composite right/left-handed transmission lines with an antenna application <b>2005</b> ,	1
32	Power combining oscillator array using metamaterial based injection locking coupling network <b>2006</b> ,	1
31	Alternating Input Power Dividing Technique for High Conversion Gain Frequency Doubler <b>2003</b> ,	1
30	Active and High-Performance Antennas305-348	1
29	Integrated adaptive beamforming antennas for wireless communications	1
28	DISTRIBUTED BALANCED PHOTODETECTOR FOR RF PHOTONIC APPLICATIONS. <i>International Journal of High Speed Electronics and Systems</i> , <b>2000</b> , 10, 281-297	0.5 1
27	Planar-Oriented Passive Components265-303	1
26	Waveguide bandpass filter analysis and design using multimode parallel FDTD diakoptics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1999</b> , 47, 867-876	4.1 1
25	Optical control of active integrated antennas using microwave-optical interaction. <i>Electronics and Communications in Japan</i> , <b>1995</b> , 78, 33-41	1

24	The effects of the coupled slotline (CSL) mode and air-bridges on the CPW one-port discontinuities <b>1995,</b>		1
23	High active device density Quasi-Optical amplifier <b>1996,</b>		1
22	Effect of carrier injection into MESFET substrates : comparison of MESFET on a semi-insulating buffer, MESFET on a P substrate, and substrate-less MESFET. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>1988</b> , 43, 415-422	2	1
21	A distributed millimeter-wave isolator using nonreciprocal coupling structure. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1984</b> , 5, 775-792		1
20	Metasurface Terahertz Laser With Electronically-Controlled Polarization <b>2017,</b>		1
19	Terahertz quantum cascade VECSEL <b>2016,</b>		1
18	Impulse response analysis of coherent waveguide communication. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2018</b> , 10, 101-113	0.8	1
17	Two-Dimensional Non-periodic Metasurface for Dual Polarization Retroreflection <b>2018,</b>		1
16	Blazed Metasurface Grating with Handedness Preservation for Circularly Polarized Incident Wave <b>2018,</b>		1
15	Millimeter-wave active integrated antennas utilizing harmonics. <i>Electronics and Communications in Japan</i> , <b>1995</b> , 78, 90-100		0
14	Slow-wave directional coupler and its applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1986</b> , 7, 1417-1427		0
13	Coplanar Schottky variable phase shifter constructed on GaAs substrate for millimeter-wave application. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>1984</b> , 5, 793-801		0
12	High-Impedance Surface-Based Null-Steering Antenna for Angle-of-Arrival Estimation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	0
11	A Low-profile Fabry-Prot Cavity Antenna Using Anisotropic Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 1-1	3.8	0
10	A Millimeter-Wave Frequency Reconfigurable Fabry-Prot Cavity Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2022</b> , 1-1	3.8	0
9	Proximity Coupled Interconnect Using Broadside Coupled Composite Right/Left-Handed Transmission Line. <i>IEICE Transactions on Electronics</i> , <b>2009</b> , E92-C, 1150-1156	0.4	
8	Analytical expression for a composite right/left-handed transmission line based on the Mittag-Leffler series expansion. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 43, 26-29	1.2	
7	Fully matched dual-operation-mode GaAs FET amplifier for efficiency enhancement at low-power level. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 47, 41-44	1.2	

6	Study of mesfets on P-substrates and on thin P-layers. <i>Microwave and Optical Technology Letters</i> , <b>1988</b> , 1, 32-34	1.2
5	Full Wave Electromagnetic Analysis in the Time Domain 222-258	
4	Development of a Dual Composite Right / Left Handed (D-CRLH) Differential Transmission Line Common Mode Filter. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2011</b> , 131, 517-522	0.2
3	Multilayered CRLH Metamaterials Using Magnetic Dipole-Like Resonant Dielectric Particles and Cut-Off TE Modes in Metallic Structures. <i>Additional Conferences (Device Packaging HiTEC HiTEN &amp; CICMT)</i> , <b>2013</b> , 2013, 000076-000084	0.1
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1	Printed Quasi-Yagi Antennas 69-102	