

# Christophe Caloz

## List of Publications by Citations

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

364 papers	11,511 citations	53 h-index	98 g-index
517 ext. papers	15,186 ext. citations	3.3 avg, IF	6.96 L-index

#	Paper	IF	Citations
364	<b>2005,</b>		946
363	Composite right/left-handed transmission line metamaterials. <i>IEEE Microwave Magazine</i> , <b>2004</b> , 5, 34-50	1.2	715
362	Dominant mode leaky-wave antenna with backfire-to-endfire scanning capability. <i>Electronics Letters</i> , <b>2002</b> , 38, 1414	1.1	341
361	A novel composite right-/left-handed coupled-line directional coupler with arbitrary coupling level and broad bandwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 980-992	4.1	311
360	Transmission line approach of left-handed (LH) materials and microstrip implementation of an artificial LH transmission line. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2004</b> , 52, 1159-1166	4.9	311
359	Arbitrary dual-band components using composite right/left-handed transmission lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 1142-1149	4.1	297
358	Leaky-Wave Antennas. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 2194-2206	14.3	269
357	Giant non-reciprocity at the subwavelength scale using angular momentum-biased metamaterials. <i>Nature Communications</i> , <b>2013</b> , 4, 2407	17.4	247
356	Characteristics of the composite right/left-handed transmission lines. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 68-70	2.6	226
355	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 2977-2991	4.9	217
354	Electromagnetic Nonreciprocity. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	198
353	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2008</b> , 50, 25-39	1.7	192
352	Planar distributed structures with negative refractive index. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 1252-1263	4.1	183
351	Metamaterial-based electronically controlled transmission-line structure as a novel leaky-wave antenna with tunable radiation angle and beamwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 2678-2690	4.1	177
350	Application of the transmission line theory of left-handed (LH) materials to the realization of a microstrip "LH line"		166
349	Gyrotropy and Nonreciprocity of Graphene for Microwave Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 901-914	4.1	147
348	A compact enhanced-bandwidth hybrid ring using an artificial lumped-element left-handed transmission-line section. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 798-804	4.1	146

347	Metamaterial-based electronically controlled transmission-line structure as a novel leaky-wave antenna with tunable radiation angle and beamwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 161-173	4.1	137
346	Artificial Faraday rotation using a ring metamaterial structure without static magnetic field. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 031114	3.4	122
345	Dual Composite Right/Left-Handed (D-CRLH) Transmission Line Metamaterial. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2006</b> , 16, 585-587	2.6	120
344	Full-wave verification of the fundamental properties of left-handed materials in waveguide configurations. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 5483-5486	2.5	117
343	Group-Delay Engineered Noncommensurate Transmission Line All-Pass Network for Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2392-2407	4.1	107
342	Forward coupling phenomena between artificial left-handed transmission lines. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5560-5565	2.5	107
341	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 442-452	4.9	96
340	Transmission Line Modeling and Asymptotic Formulas for Periodic Leaky-Wave Antennas Scanning Through Broadside. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3695-3709	4.9	95
339	Analog Signal Processing: A Possible Alternative or Complement to Dominantly Digital Radio Schemes. <i>IEEE Microwave Magazine</i> , <b>2013</b> , 14, 87-103	1.2	93
338	Electronically scanned composite right/left handed microstrip leaky-wave antenna. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 277-279	2.6	90
337	Magnetless Nonreciprocal Metamaterial (MNM) Technology: Application to Microwave Components. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 1030-1042	4.1	88
336	High-gain active composite right/left-handed leaky-wave antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2006</b> , 54, 2292-2300	4.9	88
335	Spacetime Metamaterials Part I: General Concepts. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1569-1582	4.9	88
334	Susceptibility Derivation and Experimental Demonstration of Refracting Metasurfaces Without Spurious Diffraction. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 1321-1330	4.9	87
333	Microwave Analog Real-Time Spectrum Analyzer (RTSA) Based on the Spectral Spatial Decomposition Property of Leaky-Wave Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2989-2999	4.1	86
332	Design, concepts, and applications of electromagnetic metasurfaces. <i>Nanophotonics</i> , <b>2018</b> , 7, 1095-1116	6.3	86
331	Nonreciprocal electromagnetic scattering from a periodically space-time modulated slab and application to a quasisonic isolator. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	83
330	Uniform Ferrite-Loaded Open Waveguide Structure With CRLH Response and Its Application to a Novel Backfire-to-Endfire Leaky-Wave Antenna. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 784-795	4.1	78

- 329 Nonreciprocal Nongyrotropic Magnetless Metasurface. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 3589-3597 4.9 76
- 328 110 GHz measurement of large-area graphene integrated in low-loss microwave structures. *Applied Physics Letters*, **2011**, 99, 153504 3.4 76
- 327 Array factor approach of leaky-wave antennas and application to 1-D/2-D composite right/left-handed (CRLH) structures. *IEEE Microwave and Wireless Components Letters*, **2004**, 14, 274-276<sup>2.6</sup> 74
- 326 Metamaterial Dispersion Engineering Concepts and Applications. *Proceedings of the IEEE*, **2011**, 99, 1711-1719<sup>1.5</sup> 73
- 325 Electromagnetic nonreciprocity and gyrotropy of graphene. *Applied Physics Letters*, **2011**, 98, 021911 3.4 71
- 324 Roadmap on metasurfaces. *Journal of Optics (United Kingdom)*, **2019**, 21, 073002 1.7 69
- 323 Compact Elongated Mushroom (EM)-EBG Structure for Enhancement of Patch Antenna Array Performances. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1076-1086 4.9 68
- 322 A novel mixed conventional microstrip and composite right/left-handed backward-wave directional coupler with broadband and tight coupling characteristics. *IEEE Microwave and Wireless Components Letters*, **2004**, 14, 31-33 2.6 68
- 321 Full-Space Scanning Periodic Phase-Reversal Leaky-Wave Antenna. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 2619-2632 4.1 67
- 320 Ferromagnetic Nanowire Metamaterials: Theory and Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 2568-2586 4.1 65
- 319 A simple and accurate model for microstrip structures with slotted ground plane. *IEEE Microwave and Wireless Components Letters*, **2004**, 14, 133-135 2.6 65
- 318 Transversal Asymmetry in Periodic Leaky-Wave Antennas for Bloch Impedance and Radiation Efficiency Equalization Through Broadside. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5037-5054 4.9 63
- 317 Spacetime Metamaterials Part II: Theory and Applications. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1583-1598 4.9 62
- 316 Optical isolation based on space-time engineered asymmetric photonic band gaps. *Physical Review B*, **2017**, 96, 3.3 60
- 315 Novel microwave devices and structures based on the transmission line approach of meta-materials 60
- 314 Compressive Receiver Using a CRLH-Based Dispersive Delay Line for Analog Signal Processing. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 2617-2626 4.1 58
- 313 Super-compact multilayered left-handed transmission line and diplexer application. *IEEE Transactions on Microwave Theory and Techniques*, **2005**, 53, 1527-1534 4.1 58
- 312 Chipless RFID System Based on Group Delay Engineered Dispersive Delay Structures. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1366-1368 3.8 55

3 <sup>11</sup>	Generation of Bessel Beams by Two-Dimensional Antenna Arrays Using Sub-Sampled Distributions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 1838-1849	4.9	52
3 <sup>10</sup>	Analog Direction of Arrival Estimation Using an Electronically-Scanned CRLH Leaky-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1408-1412	4.9	51
3 <sup>09</sup>	Synthesis of electromagnetic metasurfaces: principles and illustrations. <i>EPJ Applied Metamaterials</i> , <b>2015</b> , 2, 12	0.8	50
3 <sup>08</sup>	Faraday rotation in magnetically biased graphene at microwave frequencies. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 191901	3.4	50
3 <sup>07</sup>	Perspectives on EM metamaterials. <i>Materials Today</i> , <b>2009</b> , 12, 12-20	21.8	49
3 <sup>06</sup>	Circular Polarization of Periodic Leaky-Wave Antennas With Axial Asymmetry: Theoretical Proof and Experimental Demonstration. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 1817-1829	4.9	48
3 <sup>05</sup>	Simulation of Metasurfaces in Finite Difference Techniques. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 4753-4759	4.9	46
3 <sup>04</sup>	A 3-D Isotropic Left-Handed Metamaterial Based on the Rotated Transmission-Line Matrix (TLM) Scheme. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2930-2941	4.1	46
3 <sup>03</sup>	Synthesis of Narrowband Reflection-Type Phasers With Arbitrary Prescribed Group Delay. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 2394-2402	4.1	42
3 <sup>02</sup>	Integrated Leaky-Wave AntennaDuplexer/Diplexer Using CRLH Uniform Ferrite-Loaded Open Waveguide. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2508-2514	4.9	42
3 <sup>01</sup>	Effective permeability tensor and double resonance of interacting bistable ferromagnetic nanowires. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	42
3 <sup>00</sup>	Electromagnetic Modeling of a Magnetless Nonreciprocal Gyrotropic Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 221-231	4.9	41
299	Power-Recycling Feedback System for Maximization of Leaky-Wave Antennas' Radiation Efficiency. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 1641-1650	4.1	41
298	Generalized Coupled-Mode Approach of Metamaterial Coupled-Line Couplers: Coupling Theory, Phenomenological Explanation, and Experimental Demonstration. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 1029-1039	4.1	41
297	Radiation Efficiency of Longitudinally Symmetric and Asymmetric Periodic Leaky-Wave Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 612-615	3.8	39
296	Increased Group-Delay Slope Loop System for Enhanced-Resolution Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2011</b> , 59, 1622-1628	4.1	39
295	Metamaterials for High-Frequency Electronics. <i>Proceedings of the IEEE</i> , <b>2005</b> , 93, 1744-1752	14.3	38
294	. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2018</b> , 3, 37-49	1.5	38

293	Substrate Integrated Artificial Dielectric (SIAD) Structure for Miniaturized Microstrip Circuits. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2007</b> , 6, 575-579	3.8	37
292	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
291	A reflectodirective system using a composite right/left-handed (CRLH) leaky-wave antenna and heterodyne mixing. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 183-185	2.6	37
290	Simultaneous Control of the Spatial and Temporal Spectra of Light With Space-Time Varying Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 2430-2441	4.9	37
289	Experimental Demonstration and Characterization of a Tunable CRLH Delay Line System for Impulse/Continuous Wave. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2007</b> , 17, 864-866	2.6	36
288	Nonreciprocal Magnetless CRLH Leaky-Wave Antenna Based on a Ring Metamaterial Structure. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 1551-1554	3.8	35
287	Double ferromagnetic resonance in nanowire arrays. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 062504	3.4	35
286	Non-reciprocal magnetoplasmon graphene coupler. <i>Optics Express</i> , <b>2013</b> , 21, 11248-56	3.3	34
285	Varactor-Tuned Dual-Band Quadrature Hybrid Coupler. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2006</b> , 16, 603-605	2.6	34
284	Positive/negative refractive index anisotropic 2-D metamaterials. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2003</b> , 13, 547-549	2.6	34
283	Generalized Sheet Transition Condition FDTD Simulation of Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 271-280	4.9	34
282	Synthesis of Cross-Coupled Reduced-Order Dispersive Delay Structures (DDSs) With Arbitrary Group Delay and Controlled Magnitude. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 1043-1052	4.1	33
281	Distortion-Less Real-Time Spectrum Sniffing Based on a Stepped Group-Delay Phaser. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 601-603	2.6	33
280	The challenge of homogenization in metamaterials. <i>New Journal of Physics</i> , <b>2005</b> , 7, 167-167	2.9	33
279	Inverse prism based on temporal discontinuity and spatial dispersion. <i>Optics Letters</i> , <b>2018</b> , 43, 3297-3300		32
278	Vertical microstrip transition for multilayer microwave circuits with decoupled passive and active layers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2006</b> , 16, 401-403	2.6	32
277	Multilayer and anisotropic planar compact PBG structures for microstrip applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2002</b> , 50, 2206-2208	4.1	32
276	Metasurface Spatial Processor for Electromagnetic Remote Control. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 1759-1767	4.9	31

275	Manipulating light at distance by a metasurface using momentum transformation. <i>Optics Express</i> , <b>2014</b> , 22, 14530-43	3.3	31
274	Arbitrary Electromagnetic Conductor Boundaries Using Faraday Rotation in a Grounded Ferrite Slab. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 2781-2793	4.1	30
273	Finite-Element Modeling of Metasurfaces With Generalized Sheet Transition Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2413-2420	4.9	29
272	Surface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidence. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 5753-5767	4.9	29
271	Edge surface modes in magnetically biased chemically doped graphene strips. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 231902	3.4	29
270	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
269	Dielectric Resonator Metasurface for Dispersion Engineering. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 673-680	4.9	28
268	Extended composite right/left-handed (E-CRLH) metamaterial and its application as quadband quarter-wavelength transmission line <b>2006</b> ,		28
267	Greater Than the Sum of Its Parts. <i>IEEE Microwave Magazine</i> , <b>2010</b> , 11, 69-82	1.2	27
266	Plenary and Closing Ceremonies at IMS2012. <i>IEEE Microwave Magazine</i> , <b>2012</b> , 13, 44-50	1.2	26
265	New-Wave Radio. <i>IEEE Microwave Magazine</i> , <b>2008</b> , 9, 89-100	1.2	26
264	Coupling Matrix Synthesis of Nonreciprocal Lossless Two-Port Networks Using Gytrators and Inverters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 2782-2792	4.1	25
263	Fixed-Beam Frequency-Tunable Phase-Reversal Coplanar Stripline Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 671-681	4.9	24
262	Novel broadband conventional- and dual-composite right/left-handed (C/D-CRLH) metamaterials: properties, implementation and double-band coupler application. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 87, 309-316	2.6	24
261	Broadside Dual-Channel Orthogonal-Polarization Radiation Using a Double-Asymmetric Periodic Leaky-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2855-2864	4.9	23
260	Wave Scattering by a Cylindrical Metasurface Cavity of Arbitrary Cross Section: Theory and Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4059-4072	4.9	23
259	Electromagnetic Chirality, Part 1: The Microscopic Perspective [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2020</b> , 62, 58-71	1.7	23
258	Multilayer Broadside-Coupled Dispersive Delay Structures for Analog Signal Processing. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 1-3	2.6	23



257	Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 441-444	3.8	23
256	Ferrite Based Non-Reciprocal Radome, Generalized Scattering Matrix Analysis and Experimental Demonstration. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 810-817	4.9	22
255	Efficient Analysis of Metasurfaces in Terms of Spectral-Domain GSTC Integral Equations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 5340-5347	4.9	21
254	CRLH/CRLH C-Section Dispersive Delay Structures With Enhanced Group-Delay Swing for Higher Analog Signal Processing Resolution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3939-3949	4.1	21
253	A Tapered CRLH Interdigital/Stub Leaky-Wave Antenna With Minimized Sidelobe Levels. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 1214-1217	3.8	21
252	CRLH Delay Line Pulse Position Modulation Transmitter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 527-529	2.6	21
251	Dual-band sub-harmonic quadrature mixer using composite right/left-handed transmission lines. <i>IET Microwaves Antennas and Propagation</i> , <b>2006</b> , 153, 365		21
250	Magnetization Reversal in Arrays of Ni Nanowires With Different Diameters. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4070-4073	2	20
249	Study and realisation of dual-composite right/left-handed coplanar waveguide metamaterial in MMIC technology. <i>IET Microwaves, Antennas and Propagation</i> , <b>2008</b> , 2, 731-736	1.6	20
248	A Simple Picosecond Pulse Generator Based on a Pair of Step Recovery Diodes. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 467-469	2.6	19
247	Generalized Coupled-Line All-Pass Phasers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 1007-1018	4.1	19
246	Dual composite right/left-handed (D-CRLH) leaky-wave antenna with low beam squinting and tunable group velocity. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1219-1226	1.3	18
245	Pencil-Beam Full-Space Scanning 2D CRLH Leaky-Wave Antenna Array <b>2007</b> ,		18
244	Investigation on the Phenomenology of Impulse-Regime Metamaterial Transmission Lines. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 4010-4014	4.9	17
243	Broadband and Compact Coupled Coplanar Stripline Filters With Impedance Steps. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 2874-2886	4.1	17
242	All-pass dispersion synthesis using microwave C-sections. <i>International Journal of Circuit Theory and Applications</i> , <b>2014</b> , 42, 1228-1245	2	16
241	Optically Transparent and Flexible Graphene Reciprocal and Nonreciprocal Microwave Planar Components. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 360-362	2.6	16
240	A simple and accurate model for microstrip structures with slotted ground plane. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 127-129	2.6	16



239	Comparison of two synthesis methods for birefringent metasurfaces. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 235305	2.5	16
238	Graphene transverse electric surface plasmon detection using nonreciprocity modal discrimination. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	16
237	Unusual electromagnetic modes in space-time-modulated dispersion-engineered media. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	15
236	Enhanced-SNR Impulse Radio Transceiver Based on Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 778-780	2.6	15
235	Dynamic radiation pattern diversity (DRPD) MIMO using CRLH leaky-wave antennas <b>2008</b> ,		15
234	On the Use of Electromagnetic Inversion for Metasurface Design. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1812-1824	4.9	15
233	Unidirectional Loop Metamaterials (ULM) as Magnetless Artificial Ferrimagnetic Materials: Principles and Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 1943-1947	3.8	14
232	Simultaneous enhancement of light extraction and spontaneous emission using a partially reflecting metasurface cavity. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	14
231	EBG Superstrate for Gain Enhancement of a Circularly Polarized Patch Antenna <b>2006</b> ,		14
230	Leaky-waves in a metamaterial-based two-dimensional structure for a conical beam antenna application		14
229	A compact circularly polarized subdivided microstrip patch antenna. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2002</b> , 12, 18-19	2.6	14
228	Spread-Spectrum Selective Camouflaging Based on Time-Modulated Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 286-295	4.9	14
227	Electromagnetic Chirality, Part 2: The Macroscopic Perspective [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , <b>2020</b> , 62, 82-98	1.7	13
226	Terahertz magnetoplasmon energy concentration and splitting in Graphene PN Junctions. <i>Optics Express</i> , <b>2013</b> , 21, 25356-63	3.3	13
225	Switchable Magnetless Nonreciprocal Metamaterial (MNM) and its Application to a Switchable Faraday Rotation Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 1454-1457	3.8	13
224	Broadband Compact 180° Hybrid Derived From the Wilkinson Divider. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 1030-1037	4.1	13
223	A broadband left-handed (LH) coupled-line backward coupler with arbitrary coupling level		13
222	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2002</b> , 50, 1380-1391	4.1	13

221	Space-time modulated nonreciprocal mixing, amplifying and scanning leaky-wave antenna system <b>2015</b> ,		12
220	Bandwidth enhancement and beam squint reduction of leaky modes in a uniaxially anisotropic meta-substrate <b>2010</b> ,		12
219	Synthesis of Spherical Metasurfaces Based on Susceptibility Tensor GSTCs. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 2542-2554	4.9	11
218	Analog real-time Fourier transformer using a group delay engineered C-section all-pass network <b>2010</b> ,		11
217	Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2009</b> , 8, 1202-1205	3.8	11
216	Reflection-Type Artificial Dielectric Substrate Microstrip Dispersive Delay Line (DDL) for Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 1714-1723	4.1	11
215	Simple-Design and Compact MIM CRLH Microstrip 3-dB Coupled-Line Coupler <b>2006</b> ,		11
214	Analysis of a compact slot resonator in the ground plane for microstrip structures		11
213	Uniform-velocity spacetime crystals. <i>Advanced Photonics</i> , <b>2019</b> , 1, 1	8.1	11
212	Bit-error-rate (BER) performance in dispersion code multiple access (DCMA) <b>2015</b> ,		10
211	Wideband Phase-Reversal Antenna Using a Novel Bandwidth Enhancement Technique. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2823-2830	4.9	10
210	Dark and Bright Solitons in Left-Handed Nonlinear Transmission Line Metamaterials. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		10
209	Near-field focusing by a nonuniform leaky-wave interface. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 44, 416-418	1.2	10
208	Generalized Brewster effect using bianisotropic metasurfaces. <i>Optics Express</i> , <b>2021</b> , 29, 11361-11370	3.3	10
207	Space-Wave Routing via Surface Waves Using a Metasurface System. <i>Scientific Reports</i> , <b>2018</b> , 8, 7549	4.9	10
206	Compact Reflection-Type Phaser Using Quarter-Wavelength Transmission Line Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 391-393	2.6	9
205	Wave deflection and shifted refocusing in a medium modulated by a superluminal rectangular pulse. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	9
204	Solar Meta-Sails for Agile Optical Force Control. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 6924-6934	4.9	9

203	Design of Dispersive Delay Structures (DDSs) Formed by Coupled C-Sections Using Predistortion With Space Mapping. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 4040-4051	4.1	9
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201	Loss-Gain Equalized Reconfigurable C-Section Analog Signal Processor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 555-564	4.1	9
200	Dual-band integrated self-biased edge-mode isolator based on the double ferromagnetic resonance of a bistable nanowire substrate <b>2010</b> ,		9
199	Low-Profile Leaky Wave Electric Monopole Loop Antenna Using the $\beta=0$ Regime of a Ferrite-Loaded Open Waveguide. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 3165-3174	4.9	9
198	First- and Second-Order Differentiators Based on Coupled-Line Directional Couplers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 791-793	2.6	9
197	Equivalent Circuit (EC) FDTD Method for the Modeling of Surface Plasmon Based Couplers. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2008</b> , 5, 690-703	0.3	9
196	Compact multilayer ultra-wideband six-port device for modulation/demodulation. <i>Electronics Letters</i> , <b>2007</b> , 43, 813	1.1	9
195	Highly Directive Resonator Antennas based on Composite Right/Left-Handed (CRLH) Transmission Lines <b>2007</b> ,		9
194	A compact enhanced-bandwidth hybrid ring using a left-handed transmission line section		9
193	Lossy transmission line metamaterials. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 43, 112-114	1.2	9
192	A super-compact super-broadband tapered uniplanar PBG structure for microwave and millimeter-wave applications		9
191	Large-Angle, Broadband, and Multifunctional Directive Waveguide Scatterer Gratings. <i>ACS Photonics</i> , <b>2019</b> , 6, 3298-3305	6.3	8
190	Radiation Efficiency Issues in Planar Antennas on Electrically Thick Substrates and Solutions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 4013-4025	4.9	8
189	Field effect tuning of microwave Faraday rotation and isolation with large-area graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 093106	3.4	8
188	Enhancement of Time-Reversal Subwavelength Wireless Transmission Using Pulse Shaping. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4169-4174	4.9	8
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185	TE <sub>210</sub> mode balanced oscillator using substrate integrated waveguide resonator. <i>IET Microwaves, Antennas and Propagation</i> , <b>2011</b> , 5, 1188	1.6	8
184	Schrödinger solitons in left-handed SiO <sub>2</sub> /Ag/SiO <sub>2</sub> and Ag/SiO <sub>2</sub> /Ag plasmonic waveguides calculated with a nonlinear transmission line approach. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 124510	2.5	8
183	Dual-band composite right/left-handed ring antenna with linear/circular polarization capability <b>2006</b> ,		8
182	Tri-band and dual-polarized antenna based on composite right/left-handed transmission line <b>2007</b> ,		8
181	Enhanced Bandwidth and Diversity in Real-Time Analog Signal Processing (R-ASP) Using Nonuniform C-Section Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 663-665	2.6	8
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179	Dispersive Feeding Network for Arbitrary Frequency Beam Scanning in Array Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 3033-3040	4.9	7
178	Electromagnetic Inversion With Local Power Conservation for Metasurface Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 1291-1295	3.8	7
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176	Synthesis of broadband dispersive delay structures formed by commensurate C- and D-sections. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2014</b> , 24, 322-331	1.5	7
175	Size-independent zeroth order electric plasmonic cavity resonator. <i>Microwave and Optical Technology Letters</i> , <b>2011</b> , 53, 927-932	1.2	7
174	Design of a size-independent zero-permittivity rectangular resonator and possible antenna applications <b>2010</b> ,		7
173	Spatio-temporal Talbot phenomenon using metamaterial composite right/left-handed leaky-wave antennas. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 104901	2.5	7
172	Composite right/left-handed extended equivalent circuit (CRLH-EEC) FDTD: stability and dispersion analysis with examples. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2006</b> , 19, 141-172	1	7
171	Double-Lorentz Transmission Line Metamaterial and its Application to Tri-Band Devices <b>2007</b> ,		7
170	MIM CRLH Series Mode Zeroth Order Resonant Antenna (ZORA) implemented in LTCC Technology <b>2007</b> ,		7
169	Tunable arbitrary N-port CRLH infinite-wavelength series power divider. <i>Electronics Letters</i> , <b>2007</b> , 43, 1292	1.1	7
168	Bessel beams: a unified and extended perspective. <i>Optica</i> , <b>2021</b> , 8, 451	8.6	7

167	Spacetime processing metasurfaces: GSTC synthesis and prospective applications <b>2016</b> ,		7
166	Real-Time Dispersion Code Multiple Access for High-Speed Wireless Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 266-281	9.6	6
165	Shunt-Stub and Stepped-Impedance Broadband Reflective Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 807-809	2.6	6
164	Perfect Dispersive Medium for Real-Time Signal Processing. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 5299-5308	4.9	6
163	Single-Step Tunable Group Delay Phaser for Spectrum Sniffing. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 808-810	2.6	6
162	Vortex beam generation using circular leaky-wave antenna <b>2014</b> ,		6
161	Importance of transversal and longitudinal symmetry/asymmetry in the fundamental properties of periodic leaky-wave antennas <b>2013</b> ,		6
160	Amplitude equalized transmission line dispersive delay structure for analog signal processing <b>2011</b> ,		6
159	Non-reciprocal ferrite antenna radome : The faradome. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , <b>2009</b> ,		6
158	Lowpass filter with slow-wave rail coplanar stripline (R-CPS). <i>Electronics Letters</i> , <b>2009</b> , 45, 895	1.1	6
157	Modeling and synthesis of the interdigital/stub composite right/left-handed artificial transmission line. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2009</b> , 19, 549-560	1.5	6
156	Comparison of various ferrite-loaded CRLH leaky-wave antenna structures <b>2008</b> ,		6
155	Circuitual and Experimental Demonstration of a 3D Isotropic LH Metamaterial based on the rotated TLM scheme. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		6
154	Dual-band CRLH branch-line coupler in MIM technology. <i>Microwave and Optical Technology Letters</i> , <b>2006</b> , 48, 2331-2333	1.2	6
153	Phaser-based feeding network for uniformly scanning antenna arrays <b>2015</b> ,		5
152	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7396-7406	4.9	5
151	Magnetoelectric Dipole Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 3613-3622	4.9	5
150	Metasurface solar sail <b>2017</b> ,		5

149	Reconfigurable phaser using gain-loss C-sections for radio analog signal processing (R-ASP) <b>2015</b> ,		5
148	Field displacement in a traveling-wave ring resonator meta-structure <b>2011</b> ,		5
147	Metamaterials face-off [Speaker's Corner]. <i>IEEE Microwave Magazine</i> , <b>2009</b> , 10, 8-42	1.2	5
146	Efficient time-domain analysis of highly dispersive linear and non-linear metamaterial waveguide and antenna structures operated in the impulse-regime. <i>IET Microwaves, Antennas and Propagation</i> , <b>2010</b> , 4, 1617	1.6	5
145	Metallic wire substrate (MWS) for miniaturization in planar microwave applications <b>2006</b> ,		5
144	CRLH zeroth order resonator (ZOR): Experimental demonstration of insensitivity to losses and to size <b>2006</b> ,		5
143	Broadband and Compact Double Stepped-Impedance CPS Filters with Coupled-Resonance Enhanced Selectivity. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		5
142	Enlarged half-wavelength resonator antenna with enhanced gain		5
141	Active metamaterial structures and antennas		5
140	Electronically-controlled metamaterial-based transmission line as a continuous-scanning leaky-wave antenna		5
139	Existence and properties of microwave surface plasmons at the interface between a right-handed and a left-handed media <b>2004</b> ,		5
138	Comparison of two methods for the computation of Green's functions in photonic bandgap materials: The eigenmode-expansion method and the phased-array method. <i>Microwave and Optical Technology Letters</i> , <b>2000</b> , 27, 323-330	1.2	5
137	Analysis 2D finite-size metamaterials by the transmission matrix method		5
136	Spread-Spectrum Camouflaging based on Time-Modulated Metasurface <b>2019</b> ,		5
135	Real-Time Spectrum Sniffer for Cognitive Radio Based on Rotman Lens Spectrum Decomposer. <i>IEEE Access</i> , <b>2018</b> , 6, 52366-52373	3.5	5
134	Flexible-Resolution, Arbitrary-Input, and Tunable Rotman Lens Spectrum Decomposer. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2018</b> , 66, 3936-3947	4.9	5
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132	Frequency generation in moving photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 1616	1.7	4



131	Alternative Construction of the Coupling Matrix of Filters With Non-Paraconjugate Transmission Zeros. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 509-511	2.6	4
130	Mathematical synthesis and analysis of a second-order magneto-electrically nonlinear metasurface. <i>Optics Express</i> , <b>2017</b> , 25, 19013-19022	3.3	4
129	All-pass metasurfaces based on interconnected dielectric resonators as a spatial phaser for real-time analog signal processing <b>2015</b> ,		4
128	Hybrid time-frequency RFID system <b>2012</b> ,		4
127	Theoretical Investigation of Traveling-Wave Amplification in Metallic Carbon Nanotubes Biased by a DC Field. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 463-471	2.6	4
126	Isolator utilizing artificial magnetic gyrotropy <b>2012</b> ,		4
125	Comparison of transmission and reflection all-pass phasers for analogue signal processing. <i>Electronics Letters</i> , <b>2013</b> , 49, 903-905	1.1	4
124	Performance-Enhanced and Symmetric Full-Space Scanning End-Switched CRLH LWA. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 709-712	3.8	4
123	Monopulse comparator with frequency-independent delta-channel nulls for high-resolution tracking radar. <i>Electronics Letters</i> , <b>2011</b> , 47, 339	1.1	4
122	Next-generation metamaterials for unprecedented microwave systems <b>2011</b> ,		4
121	Circular antenna array for microwave Bessel beam generation <b>2011</b> ,		4
120	A fast modeling of the wave propagation inside a rectangular room <b>2009</b> ,		4
119	Analog signal processing (ASP) for high-speed microwave and millimeter-wave systems <b>2012</b> ,		4
118	Contactless impedance measurement of large-area high-quality graphene <b>2012</b> ,		4
117	CRLH leaky-wave real-time spectrum analyzer (RTSA) with unrestricted time-frequency resolution <b>2008</b> ,		4
116	Carrier frequency tunable impulse/continuous wave CRLH delay line system <b>2007</b> ,		4
115	3D Composite Right-Left Handed Metamaterials with Lorentz-type Dispersive Elements <b>2007</b> ,		4
114	A two-dimensional edge excited metamaterial-based leaky wave antenna		4

113	Wave interactions in a left-handed mushroom structure <b>2004</b> ,		4
112	A branch-line coupler with two arbitrary operating frequencies using left-handed transmission lines		4
111	Microwave Circuits Based on Negative Refractive Index Material Structures <b>2003</b> ,		4
110	Miniaturized MIM CRLH transmission line structure and application to backfire-to-endfire leaky-wave antenna <b>2004</b> ,		4
109			4
108	Left-Handed Transmission Lines and Equivalent Metamaterials for Microwave and Millimeter-Wave Applications <b>2002</b> ,		4
107	Spacetime-Modulated Metasurface for Spatial Multiplexing Communication <b>2019</b> ,		4
106	Real-time 2-D spectral-decomposition using a leaky-wave antenna array with dispersive feeding network <b>2015</b> ,		3
105	Time-Reversal Routing for Dispersion Code Multiple Access (DCMA) Communications. <i>IEEE Access</i> , <b>2018</b> , 6, 9650-9654	3.5	3
104	Dispersion code modulation for enhanced spectral efficiency in wireless communications <b>2016</b> ,		3
103	Reduced-permittivity meandered single-beam full-space scanning phase-reversal leaky-wave antenna <b>2014</b> ,		3
102	Power Divider with Arbitrary Power Ratio and Arbitrary Ripple Level Using Filter Synthesis Techniques. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 1819-1820	1.2	3
101	Non-uniform C-section phasers for enhanced design flexibility in Radio Analog Signal Processing <b>2014</b> ,		3
100	Group delay swing enhancement in transmission-line all-pass networks using coupling and dispersion boosting ferrimagnetic substrate. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 589-593 <sup>1,2</sup>		3
99	Analysis of the radiation efficiency of a horizontal electric dipole on a grounded dielectric slab <b>2011</b> ,		3
98	Control of the sensitivity of CRLH interdigital microstrip balanced structures using a co-design genetic algorithm approach. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 103, 709-714	2.6	3
97	Novel power recycling schemes for enhanced radiation efficiency in leaky-wave antennas <b>2009</b> ,		3
96	Edge Diffraction Suppression in Rectangular Dielectric Resonators for Quality Factor Enhancement Using Artificial Plasma. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 1336-1344	4.9	3

95	Real-time digital beam-forming active leaky-wave antenna <b>2007</b> ,		3
94	Active composite right/left-handed leaky-wave antennas <b>2006</b> ,		3
93	Dual mode zeroth order ring resonator with tuning capability and selective mode excitation <b>2005</b> ,		3
92	Electromagnetic radiation in two-dimensional photonic crystals with sinusoidal and sharp permittivity profiles. <i>Microwave and Optical Technology Letters</i> , <b>2000</b> , 24, 316-322	1.2	3
91	A Novel Anisotropic Uniplanar Compact Photonic Band-Gap (UC-PBG) Ground Plane <b>2001</b> ,		3
90	A novel multilayer photonic band-gap (PBG) structure for microstrip circuits and antennas		3
89	Slot antenna on a photonic crystal substrate: Green's function study <b>1999</b> ,		3
88	A 3D Isotropic Left-Handed Metamaterial Based on the Rotated TLM Scheme. <i>Springer Proceedings in Physics</i> , <b>2008</b> , 239-262	0.2	3
87	CRLH Metamaterial Antennas, Part II <b>2009</b> ,		3
86	Magnetless reflective gyrotropic spatial isolator metasurface. <i>New Journal of Physics</i> , <b>2021</b> , 23, 075006	2.9	3
85	SurfaceWave routing of beams by a transparent birefringent metasurface <b>2016</b> ,		2
84	Ten applications of metamaterials <b>2016</b> ,		2
83	Controllable angular scattering with a bianisotropic metasurface <b>2017</b> ,		2
82	Solving the broadside radiation issue in periodic leaky-wave antennas <b>2015</b> ,		2
81	Electromagnetic metasurface performing up to four independent wave transformations <b>2015</b> ,		2
80	Metasurface synthesis using reduced susceptibility tensors <b>2014</b> ,		2
79	Hybrid-cascade coupled-line phasers for high-resolution radio-analog signal processing. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 2502-2504	1.2	2
78	Highly dispersive delay structure exploiting the tight coupling property of the CRLH-CRLH coupler for enhanced resolution analog signal processing <b>2012</b> ,		2

77	Tunable magnet-less non-reciprocal metamaterial (MNM) and its application to an isolator <b>2012</b> ,		2
76	Faraday rotation by artificial electric gyrotropy in a transparent slot-ring metamaterial structure <b>2012</b> ,		2
75	Non-reciprocal gyrotropy in graphene: New phenomena and applications <b>2012</b> ,		2
74	Precision orbital angular momentum (OAM) multiplexing communication using a metasurface <b>2013</b> ,		2
73	CRLH leaky-wave antenna based frequency division diplexing transceiver yes <b>2009</b> ,		2
72	Tunable Talbot imaging distance using an array of beam-steered metamaterial leaky-wave antennas. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 084908	2.5	2
71	Graphene for highly tunable non-reciprocal electromagnetic devices <b>2012</b> ,		2
70	Recent advances in the modeling of periodic leaky-wave antennas scanning through broadside <b>2012</b> ,		2
69	Complex frequency versus complex propagation constant modeling and Q-balancing in periodic structures <b>2012</b> ,		2
68	Moldable Polymer/Ferrite Composite and Application to an Integrated CPW Tunable Phase Shifter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2009</b> , 19, 206-208	2.6	2
67	Leaky-wave antenna integrated duplexer using CRLH uniform ferrite-loaded open waveguide <b>2009</b> ,		2
66	Simplified description of asymmetric right-handed composite right/left-handed coupler in microstrip chip technology. <i>Microwave and Optical Technology Letters</i> , <b>2007</b> , 49, 2063-2068	1.2	2
65	Novel Passive and Active Transmission Line Metamaterial Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 919, 3		2
64	Metamaterial-based dual-band six-port front-end for direct digital QPSK transceiver		2
63	Differential Bi-directional CRLH Leaky-wave Antenna in CPS Technology <b>2007</b> ,		2
62	Ultra-Compact Power Splitter Based on Coupled Surface Plasmons <b>2007</b> ,		2
61	Time-domain study of vortexlike interface mode in metamaterials. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 221307		2
60	A Novel Leaky-Wave Retrodirective Reflector Using Short/Matched Terminations <b>2003</b> ,		2

59			2
58	Novel arbitrary angle leaky-wave reflector using heterodyne mixing		2
57	Equivalent Circuit (EC) FDTD Method for Dispersive Materials: Derivation, Stability Criteria and Application Examples. <i>Springer Proceedings in Physics</i> , <b>2008</b> , 211-238	0.2	2
56	<b>2019</b> ,		2
55	A guided tour in metasurface land: Discontinuity conditions, design and applications <b>2017</b> ,		1
54	Birefringent &#x201C;generalized refractive&#x201D; metasurface <b>2015</b> ,		1
53	Temporal photonic crystals: Causality versus periodicity <b>2015</b> ,		1
52	Scattering in spatiotemporal media <b>2015</b> ,		1
51	Electromagnetic Fields Radiated by a Circular Loop With Arbitrary Current. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 442-446	4.9	1
50	Sub/Super-luminal space-time slab: Fundamental scattering symmetries <b>2017</b> ,		1
49	Real-Time Electromagnetic Signal Processing: Principles and Illustrations <b>2017</b> ,		1
48	Nonreciprocal metamaterials: A global perspective <b>2016</b> ,		1
47	Localized Waves: Theory, Techniques, and Applications <b>2016</b> , 567-618		1
46	The symmetry secrets of periodic leaky-wave antennas <b>2014</b> ,		1
45	Terahertz graphene magnetoplasmons: Non-reciprocity, tunability and gyrotropy <b>2014</b> ,		1
44	Corrections to Surface Susceptibility Bianisotropic Matrix Model for Periodic Metasurfaces of Uniaxially Mono-Anisotropic Scatterers Under Oblique TE-Wave Incidence[Dec 12 5753-5767]. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2013</b> , 61, 4405-4405	4.9	1
43	Towards space-time metamaterials <b>2017</b> ,		1
42	Scattering in superluminal space-time (ST) modulated electromagnetic crystals <b>2017</b> ,		1

41	One-Port Coupling Matrix Synthesis for Reflection-Type Devices. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 1086-1088	2.6	1
40	Exact stability conditions in upwinding-scheme FDTD for the Boltzman transport equation. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2014</b> , 27, 238-258	1	1
39	Field theory of electromagnetic metamaterials and beyond <b>2012</b> ,		1
38	Low-Cost Analog Pulse Compression Technique Based on Mixing With an Auxiliary Pulse. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 150-152	2.6	1
37	CRLH LWA with polarization diversity using equalized common and differential modes <b>2012</b> ,		1
36	Comments on "Theoretical Analysis and Practical Considerations for the Integrated Time-Stretching System Using Dispersive Delay Line (DDL)" <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 1973-1973	4.1	1
35	Enhanced-resolution folded C-section phaser <b>2013</b> ,		1
34	Double-Band Tunable Magnetic Conductor Realized by a Grounded Ferrite Slab Covered With Metal Strip Grating. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2011</b> , 21, 231-233	2.6	1
33	FET Frequency doubler with out-of-phase switchable output and application in balanced frequency doubler. <i>Microwave and Optical Technology Letters</i> , <b>2011</b> , 53, 2160-2164	1.2	1
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