

Christophe Caloz

List of Publications by Year in Descending Order

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

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	Metasurface magnetless specular isolator.. <i>Scientific Reports</i> , 2022 , 12, 5652	4.9	0
363	Pseudorandom Sequence (Space-) Time-Modulated Metasurfaces: Principles, Operations, and Applications.. <i>IEEE Antennas and Propagation Magazine</i> , 2022 , 2-11	1.7	1
362	Photonic Gap Antennas Based on High-Index-Contrast Slot Waveguides. <i>Physical Review Applied</i> , 2021 , 16,	4.3	1
361	Bessel beams: a unified and extended perspective. <i>Optica</i> , 2021 , 8, 451	8.6	7
360	Generalized Brewster effect using bianisotropic metasurfaces. <i>Optics Express</i> , 2021 , 29, 11361-11370	3.3	10
359	Electromagnetic Wave Scattering from a Moving Medium with Stationary Interface across the Interluminal Regime. <i>Photonics</i> , 2021 , 8, 202	2.2	0
358	Magnetless reflective gyrotropic spatial isolator metasurface. <i>New Journal of Physics</i> , 2021 , 23, 075006	2.9	3
357	Spread-Spectrum Selective Camouflaging Based on Time-Modulated Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 286-295	4.9	14
356	Electromagnetic Inversion With Local Power Conservation for Metasurface Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1291-1295	3.8	7
355	Electromagnetic Chirality, Part 2: The Macroscopic Perspective [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , 2020 , 62, 82-98	1.7	13
354	Electromagnetic Chirality, Part 1: The Microscopic Perspective [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , 2020 , 62, 58-71	1.7	23
353	IE-GSTC Analysis of Metasurface Cavities and Application to Redirection Cloaking 2020 ,		1
352	Limitations of the Metasurface Diluted-Slab Model. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2020 , 5, 255-264	1.5	1
351	Advances in Spacetime-Modulated Metasurfaces 2020 ,		1
350	Spacetime MetamaterialsPart I: General Concepts. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1569-1582	4.9	88
349	On the Use of Electromagnetic Inversion for Metasurface Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1812-1824	4.9	15
348	Spacetime MetamaterialsPart II: Theory and Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1583-1598	4.9	62

347	Synthesis of Spherical Metasurfaces Based on Susceptibility Tensor GSTCs. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2542-2554	4.9	11
346	Microwave Hilbert Transformer and Its Applications in Real-Time Analog Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 2216-2226	4.1	4
345	Wave Scattering by a Cylindrical Metasurface Cavity of Arbitrary Cross Section: Theory and Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4059-4072	4.9	23
344	Solar Meta-Sails for Agile Optical Force Control. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6924-6934	4.9	9
343	. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7396-7406	4.9	5
342	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
341	Large-Angle, Broadband, and Multifunctional Directive Waveguide Scatterer Gratings. <i>ACS Photonics</i> , 2019 , 6, 3298-3305	6.3	8
340	Uniform-velocity spacetime crystals. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	11
339	Perfect Penetrable Cloaking Using Gain-Less and Loss-less Bianisotropic Metasurfaces 2019 ,		1
338	Spread-Spectrum Camouflaging based on Time-Modulated Metasurface 2019 ,		5
337	2019 ,		2
336	Spacetime-Modulated Metasurface for Spatial Multiplexing Communication 2019 ,		4
335	Simultaneous Control of the Spatial and Temporal Spectra of Light With Space-Time Varying Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2430-2441	4.9	37
334	Real-Time Dispersion Code Multiple Access for High-Speed Wireless Communications. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 266-281	9.6	6
333	Susceptibility Derivation and Experimental Demonstration of Refracting Metasurfaces Without Spurious Diffraction. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1321-1330	4.9	87
332	Time-Reversal Routing for Dispersion Code Multiple Access (DCMA) Communications. <i>IEEE Access</i> , 2018 , 6, 9650-9654	3.5	3
331	Wave deflection and shifted refocusing in a medium modulated by a superluminal rectangular pulse. <i>Physical Review B</i> , 2018 , 97,	3.3	9
330	Inverse prism based on temporal discontinuity and spatial dispersion. <i>Optics Letters</i> , 2018 , 43, 3297-3300		32

329	Unidirectional Loop Metamaterials (ULM) as Magnetless Artificial Ferrimagnetic Materials: Principles and Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1943-1947	3.8	14
328	Unusual electromagnetic modes in space-time-modulated dispersion-engineered media. <i>Physical Review A</i> , 2018 , 97,	2.6	15
327	Generalized Sheet Transition Condition FDTD Simulation of Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 271-280	4.9	34
326	Multiple Beam Forming using Spherical Metasurfaces 2018 ,		1
325	Extending the Brewster Effect to Arbitrary Angle and Polarization using Bianisotropic Metasurfaces 2018 ,		1
324	Guest Editorial Special Cluster on Magnetless Nonreciprocity in Electromagnetics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1931-1937	3.8	8
323	Electromagnetic Nonreciprocity. <i>Physical Review Applied</i> , 2018 , 10,	4.3	198
322	Real-Time Spectrum Sniffer for Cognitive Radio Based on Rotman Lens Spectrum Decomposer. <i>IEEE Access</i> , 2018 , 6, 52366-52373	3.5	5
321	. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 37-49	1.5	38
320	Space-Wave Routing via Surface Waves Using a Metasurface System. <i>Scientific Reports</i> , 2018 , 8, 7549	4.9	10
319	Flexible-Resolution, Arbitrary-Input, and Tunable Rotman Lens Spectrum Decomposer. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 3936-3947	4.9	5
318	Design, concepts, and applications of electromagnetic metasurfaces. <i>Nanophotonics</i> , 2018 , 7, 1095-11166.3		86
317	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 442-452	4.9	96
316	Finite-Element Modeling of Metasurfaces With Generalized Sheet Transition Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2413-2420	4.9	29
315	Nonreciprocal Nongyrotropic Magnetless Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3589-3597	4.9	76
314	A guided tour in metasurface land: Discontinuity conditions, design and applications 2017 ,		1
313	A Simple Picosecond Pulse Generator Based on a Pair of Step Recovery Diodes. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 467-469	2.6	19
312	Dispersive Feeding Network for Arbitrary Frequency Beam Scanning in Array Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3033-3040	4.9	7

311	Broadside Dual-Channel Orthogonal-Polarization Radiation Using a Double-Asymmetric Periodic Leaky-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2855-2864	4.9	23
310	Optical isolation based on space-time engineered asymmetric photonic band gaps. <i>Physical Review B</i> , 2017 , 96,	3.3	60
309	Sub/Super-luminal space-time slab: Fundamental scattering symmetries 2017 ,		1
308	Real-Time Electromagnetic Signal Processing: Principles and Illustrations 2017 ,		1
307	Simultaneous enhancement of light extraction and spontaneous emission using a partially reflecting metasurface cavity. <i>Physical Review A</i> , 2017 , 95,	2.6	14
306	Nonreciprocal electromagnetic scattering from a periodically space-time modulated slab and application to a quasisonic isolator. <i>Physical Review B</i> , 2017 , 96,	3.3	83
305	Loss-Gain Equalized Reconfigurable C-Section Analog Signal Processor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 555-564	4.1	9
304	Dielectric Resonator Metasurface for Dispersion Engineering. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 673-680	4.9	28
303	Metasurface solar sail 2017 ,		5
302	Towards space-time metamaterials 2017 ,		1
301	Efficient Analysis of Metasurfaces in Terms of Spectral-Domain GSTC Integral Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 5340-5347	4.9	21
300	Scattering in superluminal space-time (ST) modulated electromagnetic crystals 2017 ,		1
299	One-Port Coupling Matrix Synthesis for Reflection-Type Devices. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 1086-1088	2.6	1
298	Controllable angular scattering with a bianisotropic metasurface 2017 ,		2
297	Mathematical synthesis and analysis of a second-order magneto-electrically nonlinear metasurface. <i>Optics Express</i> , 2017 , 25, 19013-19022	3.3	4
296	Temporal and Spatial Dispersion Engineering Using Metamaterial Concepts and Structures 2017 , 165-204		
295	Simulation of Metasurfaces in Finite Difference Techniques. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4753-4759	4.9	46
294	SurfaceWave routing of beams by a transparent birefringent metasurface 2016 ,		2

293	Nonreciprocal metamaterials: A global perspective 2016 ,		1
292	Frequency generation in moving photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 1616	1.7	4
291	Ten applications of metamaterials 2016 ,		2
290	Localized Waves: Theory, Techniques, and Applications 2016 , 567-618		1
289	Dispersion code modulation for enhanced spectral efficiency in wireless communications 2016 ,		3
288	Shunt-Stub and Stepped-Impedance Broadband Reflective Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 807-809	2.6	6
287	Perfect Dispersive Medium for Real-Time Signal Processing. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 5299-5308	4.9	6
286	Metasurface Spatial Processor for Electromagnetic Remote Control. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 1759-1767	4.9	31
285	Spacetime processing metasurfaces: GSTC synthesis and prospective applications 2016 ,		7
284	Comparison of two synthesis methods for birefringent metasurfaces. <i>Journal of Applied Physics</i> , 2016 , 120, 235305	2.5	16
283	Spacetime metasurfaces 2016 ,		1
282	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> , 2016 , 26, 663-665	2.6	8
281	Graphene transverse electric surface plasmon detection using nonreciprocity modal discrimination. <i>Physical Review B</i> , 2016 , 94,	3.3	16
280	. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 2977-2991	4.9	217
279	Compact Reflection-Type Phaser Using Quarter-Wavelength Transmission Line Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 391-393	2.6	9
278	Generalized Coupled-Line All-Pass Phasers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1007-1018	4.1	19
277	Space-time modulated nonreciprocal mixing, amplifying and scanning leaky-wave antenna system 2015 ,		12
276	Real-time 2-D spectral-decomposition using a leaky-wave antenna array with dispersive feeding network 2015 ,		3

275	Phaser-based feeding network for uniformly scanning antenna arrays 2015 ,		5
274	Birefringent “generalized refractive” metasurface 2015 ,		1
273	Bit-error-rate (BER) performance in dispersion code multiple access (DCMA) 2015 ,		10
272	Temporal photonic crystals: Causality versus periodicity 2015 ,		1
271	Scattering in spatiotemporal media 2015 ,		1
270	Coupling Matrix Synthesis of Nonreciprocal Lossless Two-Port Networks Using Gytrators and Inverters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 2782-2792	4.1	25
269	Electromagnetic Fields Radiated by a Circular Loop With Arbitrary Current. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 442-446	4.9	1
268	Field effect tuning of microwave Faraday rotation and isolation with large-area graphene. <i>Applied Physics Letters</i> , 2015 , 107, 093106	3.4	8
267	Synthesis of electromagnetic metasurfaces: principles and illustrations. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 12	0.8	50
266	All-pass metasurfaces based on interconnected dielectric resonators as a spatial phaser for real-time analog signal processing 2015 ,		4
265	Reconfigurable phaser using gain-loss C-sections for radio analog signal processing (R-ASP) 2015 ,		5
264	Solving the broadside radiation issue in periodic leaky-wave antennas 2015 ,		2
263	Single-Step Tunable Group Delay Phaser for Spectrum Sniffing. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 808-810	2.6	6
262	Electromagnetic metasurface performing up to four independent wave transformations 2015 ,		2
261	Enhancement of Time-Reversal Subwavelength Wireless Transmission Using Pulse Shaping. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4169-4174	4.9	8
260	Localized Waves: Theory, Techniques and Applications 2015 , 1-44		
259	Unveiling Magnetic Dipole Radiation in Phase-Reversal Leaky-Wave Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 786-789	3.8	
258	The symmetry secrets of periodic leaky-wave antennas 2014 ,		1

257	Enhanced-SNR Impulse Radio Transceiver Based on Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 778-780	2.6	15
256	Reduced-permittivity meandered single-beam full-space scanning phase-reversal leaky-wave antenna 2014 ,		3
255	Terahertz graphene magnetoplasmons: Non-reciprocity, tunability and gyrotropy 2014 ,		1
254	Magnetoelectric Dipole Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3613-3622	4.9	5
253	Circular Polarization of Periodic Leaky-Wave Antennas With Axial Asymmetry: Theoretical Proof and Experimental Demonstration. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 1817-1829	4.9	48
252	Transversal Asymmetry in Periodic Leaky-Wave Antennas for Bloch Impedance and Radiation Efficiency Equalization Through Broadside. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5037-5054	4.9	63
251	All-pass dispersion synthesis using microwave C-sections. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1228-1245	2	16
250	METASURFACE SYNTHESIS FOR TIME-HARMONIC WAVES: EXACT SPECTRAL AND SPATIAL METHODS (Invited Paper). <i>Progress in Electromagnetics Research</i> , 2014 , 149, 205-216	3.8	7
249	Metasurface synthesis using reduced susceptibility tensors 2014 ,		2
248	Manipulating light at distance by a metasurface using momentum transformation. <i>Optics Express</i> , 2014 , 22, 14530-43	3.3	31
247	Vortex beam generation using circular leaky-wave antenna 2014 ,		6
246	Hybrid-cascade coupled-line phasers for high-resolution radio-analog signal processing. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 2502-2504	1.2	2
245	Exact stability conditions in upwinding-scheme FDTD for the Boltzman transport equation. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2014 , 27, 238-258	1	1
244	Synthesis of broadband dispersive delay structures formed by commensurate C- and D-sections. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2014 , 24, 322-331	1.5	7
243	Non-uniform C-section phasers for enhanced design flexibility in Radio Analog Signal Processing 2014 ,		3
242	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> , 2013 , 61, 4405-4405	4.9	1
241	Power Divider with Arbitrary Power Ratio and Arbitrary Ripple Level Using Filter Synthesis Techniques. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 1819-1820	1.2	3
240	Giant non-reciprocity at the subwavelength scale using angular momentum-biased metamaterials. <i>Nature Communications</i> , 2013 , 4, 2407	17.4	247

239	Analog Signal Processing: A Possible Alternative or Complement to Dominantly Digital Radio Schemes. <i>IEEE Microwave Magazine</i> , 2013 , 14, 87-103	1.2	93
238	Alternative Construction of the Coupling Matrix of Filters With Non-Paraconjugate Transmission Zeros. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 509-511	2.6	4
237	Terahertz magnetoplasmon energy concentration and splitting in Graphene PN Junctions. <i>Optics Express</i> , 2013 , 21, 25356-63	3.3	13
236	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> , 2013 , 61, 4040-4051	4.1	9
235	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> , 2013 , 61, 1043-1052	4.1	33
234	Radiation Efficiency Issues in Planar Antennas on Electrically Thick Substrates and Solutions. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 4013-4025	4.9	8
233	Wave-Interference Explanation of Group-Delay Dispersion in Resonators [Education Column]. <i>IEEE Antennas and Propagation Magazine</i> , 2013 , 55, 212-227	1.7	9
232	Construction of Green's Functions for Multilayered Media Using Signal-Flow Graphs [Education Column]. <i>IEEE Antennas and Propagation Magazine</i> , 2013 , 55, 244-249	1.7	
231	Electromagnetic Modeling of a Magnetless Nonreciprocal Gyrotropic Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 221-231	4.9	41
230	Generation of Bessel Beams by Two-Dimensional Antenna Arrays Using Sub-Sampled Distributions. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 1838-1849	4.9	52
229	Faraday rotation in magnetically biased graphene at microwave frequencies. <i>Applied Physics Letters</i> , 2013 , 102, 191901	3.4	50
228	Magnetless Nonreciprocal Metamaterial (MNM) Technology: Application to Microwave Components. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 1030-1042	4.1	88
227	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> , 2013 , 61, 1973-1973	4.1	1
226	Precision orbital angular momentum (OAM) multiplexing communication using a metasurface 2013 ,		2
225	Non-reciprocal magnetoplasmon graphene coupler. <i>Optics Express</i> , 2013 , 21, 11248-56	3.3	34
224	Comparison of transmission and reflection all-pass phasers for analogue signal processing. <i>Electronics Letters</i> , 2013 , 49, 903-905	1.1	4
223	Enhanced-resolution folded C-section phaser 2013 ,		1
222	Importance of transversal and longitudinal symmetry/asymmetry in the fundamental properties of periodic leaky-wave antennas 2013 ,		6

221	Multilayer Broadside-Coupled Dispersive Delay Structures for Analog Signal Processing. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 1-3	2.6	23
220	Celebration of the 60th Anniversary of MTT-S. <i>IEEE Microwave Magazine</i> , 2012 , 13, 32-34	1.2	
219	Plenary and Closing Ceremonies at IMS2012. <i>IEEE Microwave Magazine</i> , 2012 , 13, 44-50	1.2	26
218	Gyrotropy and Nonreciprocity of Graphene for Microwave Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 901-914	4.1	147
217	Synthesis of Narrowband Reflection-Type Phasers With Arbitrary Prescribed Group Delay. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 2394-2402	4.1	42
216	Field theory of electromagnetic metamaterials and beyond 2012 ,		1
215	Leaky-Wave Antennas. <i>Proceedings of the IEEE</i> , 2012 , 100, 2194-2206	14.3	269
214	Hybrid time-frequency RFID system 2012 ,		4
213	Distortion-Less Real-Time Spectrum Sniffing Based on a Stepped Group-Delay Phaser. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 601-603	2.6	33
212	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> , 2012 , 60, 3939-3949	4.1	21
211	Highly dispersive delay structure exploiting the tight coupling property of the CRLH-CRLH coupler for enhanced resolution analog signal processing 2012 ,		2
210	Low-Cost Analog Pulse Compression Technique Based on Mixing With an Auxiliary Pulse. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 150-152	2.6	1
209	Optically Transparent and Flexible Graphene Reciprocal and Nonreciprocal Microwave Planar Components. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 360-362	2.6	16
208	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> , 2012 , 60, 5753-5767	4.9	29
207	Theoretical Investigation of Traveling-Wave Amplification in Metallic Carbon Nanotubes Biased by a DC Field. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 463-471	2.6	4
206	Tunable magnet-less non-reciprocal metamaterial (MNM) and its application to an isolator 2012 ,		2
205	Isolator utilizing artificial magnetic gyrotropy 2012 ,		4
204	Faraday rotation by artificial electric gyrotropy in a transparent slot-ring metamaterial structure 2012 ,		2

203	CRLH LWA with polarization diversity using equalized common and differential modes 2012 ,		1
202	Non-reciprocal gyrotropy in graphene: New phenomena and applications 2012 ,		2
201	Switchable Magnetless Nonreciprocal Metamaterial (MNM) and its Application to a Switchable Faraday Rotation Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1454-1457	3.8	13
200	A Tapered CRLH Interdigital/Stub Leaky-Wave Antenna With Minimized Sidelobe Levels. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1214-1217	3.8	21
199	Radiation Efficiency of Longitudinally Symmetric and Asymmetric Periodic Leaky-Wave Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 612-615	3.8	39
198	Group delay swing enhancement in transmission-line all-pass networks using coupling and dispersion boosting ferrimagnetic substrate. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 589-593 ^{1,2}		3
197	Graphene for highly tunable non-reciprocal electromagnetic devices 2012 ,		2
196	Recent advances in the modeling of periodic leaky-wave antennas scanning through broadside 2012 ,		2
195	Complex frequency versus complex propagation constant modeling and Q-balancing in periodic structures 2012 ,		2
194	Analog signal processing (ASP) for high-speed microwave and millimeter-wave systems 2012 ,		4
193	Contactless impedance measurement of large-area high-quality graphene 2012 ,		4
192	Broadband and low-beam squint leaky wave radiation from a uniaxially anisotropic grounded slab. <i>Radio Science</i> , 2011 , 46, n/a-n/a	1.4	8
191	Amplitude equalized transmission line dispersive delay structure for analog signal processing 2011 ,		6
190	Artificial Faraday rotation using a ring metamaterial structure without static magnetic field. <i>Applied Physics Letters</i> , 2011 , 99, 031114	3.4	122
189	Double-Band Tunable Magnetic Conductor Realized by a Grounded Ferrite Slab Covered With Metal Strip Grating. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 231-233	2.6	1
188	Ferrite Based Non-Reciprocal Radome, Generalized Scattering Matrix Analysis and Experimental Demonstration. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 810-817	4.9	22
187	Graphene-based non-reciprocal spatial isolator 2011 ,		8
186	Electromagnetic nonreciprocity and gyrotropy of graphene. <i>Applied Physics Letters</i> , 2011 , 98, 021911	3.4	71

185	Edge surface modes in magnetically biased chemically doped graphene strips. <i>Applied Physics Letters</i> , 2011 , 99, 231902	3.4	29
184	Nonreciprocal Magnetless CRLH Leaky-Wave Antenna Based on a Ring Metamaterial Structure. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1551-1554	3.8	35
183	Performance-Enhanced and Symmetric Full-Space Scanning End-Switched CRLH LWA. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 709-712	3.8	4
182	Transmission Line Modeling and Asymptotic Formulas for Periodic Leaky-Wave Antennas Scanning Through Broadside. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 3695-3709	4.9	95
181	Chipless RFID System Based on Group Delay Engineered Dispersive Delay Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1366-1368	3.8	55
180	Analysis of the radiation efficiency of a horizontal electric dipole on a grounded dielectric slab 2011 ,		3
179	Monopulse comparator with frequency-independent delta-channel nulls for high-resolution tracking radar. <i>Electronics Letters</i> , 2011 , 47, 339	1.1	4
178	Ferromagnetic Nanowire Metamaterials: Theory and Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2568-2586	4.1	65
177	TE210 mode balanced oscillator using substrate integrated waveguide resonator. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 1188	1.6	8
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15	A compact enhanced-bandwidth hybrid ring using a left-handed transmission line section		9
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