

# Alejandro Alvarez-Melcon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5470004/publications.pdf>

Version: 2024-02-01

229  
papers

2,554  
citations

236925

25  
h-index

265206

42  
g-index

230  
all docs

230  
docs citations

230  
times ranked

2030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Based Plasmonic Tunable Low-Pass Filters in the Terahertz Band. IEEE Nanotechnology Magazine, 2014, 13, 1145-1153.	2.0	122
2	Black phosphorus plasmonics: anisotropic elliptical propagation and nonlocality-induced canalization. Journal of Optics (United Kingdom), 2016, 18, 104006.	2.2	102
3	Nonreciprocal Graphene Devices and Antennas Based on Spatiotemporal Modulation. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1529-1532.	4.0	101
4	Advanced traceability system in aquaculture supply chain. Journal of Food Engineering, 2014, 122, 99-109.	5.2	98
5	Design of tapered leaky-wave antennas in hybrid waveguide-planar technology for millimeter waveband applications. IEEE Transactions on Antennas and Propagation, 2005, 53, 2563-2577.	5.1	87
6	Nonreciprocal Wavefront Engineering with Time-Modulated Gradient Metasurfaces. Physical Review Applied, 2019, 11, .	3.8	87
7	Electrically and Magnetically Biased Graphene-Based Cylindrical Waveguides: Analysis and Applications as Reconfigurable Antennas. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 951-960.	3.1	84
8	Axion searches with microwave filters: the RADES project. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 040-040.	5.4	71
9	Spatially Dispersive Graphene Single and Parallel Plate Waveguides: Analysis and Circuit Model. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4333-4344.	4.6	65
10	Analysis and design of periodic leaky-wave antennas for the millimeter waveband in hybrid waveguide-planar technology. IEEE Transactions on Antennas and Propagation, 2005, 53, 2834-2842.	5.1	63
11	Frequency Steerable Two Dimensional Focusing Using Rectilinear Leaky-Wave Lenses. IEEE Transactions on Antennas and Propagation, 2011, 59, 407-415.	5.1	59
12	Green's functions in lossy layered media: integration along the imaginary axis and asymptotic behavior. IEEE Transactions on Antennas and Propagation, 2003, 51, 3200-3208.	5.1	55
13	Isolating Bandpass Filters Using Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2331-2345.	4.6	49
14	Efficient CAD of boxed microwave circuits based on arbitrary rectangular elements. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1045-1058.	4.6	43
15	First results of the CAST-RADES haloscope search for axions at $34.67 \hat{=} 4eV$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	43
16	Dual-mode circular waveguide filters without tuning screws. , 1992, 2, 457-458.		40
17	Control of Leaky-Mode Propagation and Radiation Properties in Hybrid Dielectric-Waveguide Printed-Circuit Technology: Experimental Results. IEEE Transactions on Antennas and Propagation, 2006, 54, 3383-3390.	5.1	39
18	Coupling Matrix Representation of Nonreciprocal Filters Based on Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4751-4763.	4.6	38

#	ARTICLE	IF	CITATIONS
19	An Analytical Model to Evaluate the Radiated Power Spectrum of a Multipactor Discharge in a Parallel-Plate Region. IEEE Transactions on Electron Devices, 2008, 55, 2252-2258.	3.0	33
20	A neural-network method for the analysis of multilayered shielded microwave circuits. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 309-320.	4.6	31
21	A Non-Reciprocal Microstrip Bandpass Filter Based on Spatio-Temporal Modulation. , 2019, , .		31
22	Nonreciprocal Phased-Array Antennas. Physical Review Applied, 2019, 12, .	3.8	31
23	New simple procedure for the computation of the multimode admittance or impedance matrix of planar waveguide junctions. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 413-418.	4.6	30
24	Two compact configurations for implementing transmission zeros in microstrip filters. IEEE Microwave and Wireless Components Letters, 2004, 14, 475-477.	3.2	29
25	Nonreciprocal Yagi-Uda Filtering Antennas. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2661-2665.	4.0	29
26	Two techniques for the efficient numerical calculation of the Green's functions for planar shielded circuits and antennas. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1492-1504.	4.6	28
27	A Simple CRLH LWA Circuit Condition for Constant Radiation Rate. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 29-32.	4.0	28
28	Nonorthogonality Relations Between Complex Hybrid Modes: An Application for the Leaky-Wave Analysis of Laterally Shielded Top-Open Planar Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 760-767.	4.6	27
29	Scalable haloscopes for axion dark matter detection in the 30 $\hat{1}$ / <sub>4</sub> eV range with RADES. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
30	MoM/BI-RME analysis of boxed MMICs with arbitrarily shaped metallizations. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2227-2234.	4.6	26
31	Frequency Tunable Non-Reciprocal Bandpass Filter Using Time-Modulated Microstrip $\hat{1}$ / <sub>2</sub> Resonators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 667-671.	3.0	26
32	Design of Bandpass Transversal Filters Employing a Novel Hybrid Structure. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2670-2678.	4.6	25
33	The summation-by-parts algorithm-a new efficient technique for the rapid calculation of certain series arising in shielded planar structures. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 215-218.	4.6	24
34	Rfid-based traceability along the food-production chain [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2014, 56, 196-207.	1.4	24
35	Investigation on the Phenomenology of Impulse-Regime Metamaterial Transmission Lines. IEEE Transactions on Antennas and Propagation, 2009, 57, 4010-4014.	5.1	23
36	Printed-circuit leaky-wave antenna with pointing and illumination flexibility. IEEE Microwave and Wireless Components Letters, 2005, 15, 536-538.	3.2	22

#	ARTICLE	IF	CITATIONS
37	Efficient Analysis of Arbitrarily Shaped Inductive Obstacles in Rectangular Waveguides Using a Surface Integral-Equation Formulation. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 715-721.	4.6	22
38	On the Influence of Spatial Dispersion on the Performance of Graphene-Based Plasmonic Devices. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 345-348.	4.0	22
39	Novel design procedure for microwave filters. , 1993, , .		21
40	A Modified Pole-Zero Technique for the Synthesis of Waveguide Leaky-Wave Antennas Loaded With Dipole-Based FSS. IEEE Transactions on Antennas and Propagation, 2010, 58, 1971-1979.	5.1	21
41	Substrate Integrated Waveguide (SIW) With Koch Fractal Electromagnetic Bandgap Structures (KFEBG) for Bandpass Filter Design. IEEE Microwave and Wireless Components Letters, 2015, 25, 160-162.	3.2	21
42	Flexible UHF RFID Tag for Blood Tubes Monitoring. Sensors, 2019, 19, 4903.	3.8	20
43	Microstrip Leaky-Wave Antenna With Control of Leakage Rate and Only One Main Beam in the Azimuthal Plane. IEEE Transactions on Antennas and Propagation, 2008, 56, 335-344.	5.1	18
44	A Modal-Based Iterative Circuit Model for the Analysis of CRLH Leaky-Wave Antennas Comprising Periodically Loaded PPW. IEEE Transactions on Antennas and Propagation, 2011, 59, 1101-1112.	5.1	15
45	Compact Bandstop Half-Mode Substrate Integrated Waveguide Filter Based on a Broadside-Coupled Open Split-Ring Resonator. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3001-3010.	4.6	15
46	Numerical evaluation of the Green's functions for cylindrical enclosures by a new spatial images method. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 94-105.	4.6	14
47	Bandwidth enhancement and beam squint reduction of leaky modes in a uniaxially anisotropic meta-substrate. , 2010, , .		14
48	Design of wide band-pass substrate integrated waveguide (SIW) filters based on stepped impedances. AEU - International Journal of Electronics and Communications, 2019, 100, 1-8.	2.9	14
49	Narrowband and Wideband Bandpass Filters Based on Empty Substrate Integrated Waveguide Loaded With Dielectric Elements. IEEE Access, 2021, 9, 32094-32105.	4.2	13
50	Radiation Efficiency Issues in Planar Antennas on Electrically Thick Substrates and Solutions. IEEE Transactions on Antennas and Propagation, 2013, 61, 4013-4025.	5.1	12
51	Design of Dual-Bandpass Hybrid Waveguide“Microstrip Microwave Filters. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2913-2920.	4.6	11
52	Analysis of the electromagnetic radiation generated by a multipactor discharge occurring within a microwave passive component. Journal Physics D: Applied Physics, 2010, 43, 395501.	2.8	11
53	A Novel Low-Pass Filter Based on Rounded Posts Designed by an Alternative Full-Wave Analysis Technique. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2300-2307.	4.6	11
54	Design of high-performance microstrip and coplanar low-pass filters based on electromagnetic bandgap (EBG) structures. AEU - International Journal of Electronics and Communications, 2020, 123, 153311.	2.9	11

#	ARTICLE	IF	CITATIONS
55	Interactive Lab to Learn Radio Astronomy, Microwave & Antenna Engineering at the Technical University of Cartagena (Spain). <i>International Journal of Online and Biomedical Engineering</i> , 2011, 7, 10.	1.4	11
56	A Novel Efficient Technique for the Calculation of the Green's Functions in Rectangular Waveguides Based on Accelerated Series Decomposition. <i>IEEE Transactions on Antennas and Propagation</i> , 2008, 56, 3260-3270.	5.1	10
57	Optimization-Oriented Design of RF/Microwave Circuits Using Inverse-Linear-Input Neuro-Fuzzy-Output Space Mapping With Two Different Dimensionality Simulators. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011, 58, 176-185.	5.4	10
58	An efficient integral equation technique for the analysis of arbitrarily shaped capacitive waveguide circuits. <i>Radio Science</i> , 2011, 46, .	1.6	10
59	A full-wave space-domain method for the analysis of leaky-wave modes in multilayered planar open parallel-plate waveguides. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2005, 15, 128-139.	1.2	9
60	Multipactor radiation analysis within a waveguide region based on a frequency-domain representation of the dynamics of charged particles. <i>Physical Review E</i> , 2009, 79, 046604.	2.1	9
61	Microstrip notch filters based on open interconnected split ring resonators (OISRRs). <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 263-267.	2.3	9
62	Enhanced topologies for the design of dual-mode filters using inductive waveguide structures. <i>Radio Science</i> , 2015, 50, 66-77.	1.6	9
63	Design of New Resonant Haloscopes in the Search for the Dark Matter Axion: A Review of the First Steps in the RADES Collaboration. <i>Universe</i> , 2022, 8, 5.	2.5	9
64	Multimode Network Representation of Two Dimensional Steps in Rectangular Waveguides. , 1994, , .		8
65	Fast and efficient calculation of the multilayered shielded Green's functions employing neural networks. <i>Microwave and Optical Technology Letters</i> , 2005, 44, 61-66.	1.4	8
66	Design of Bandpass Elliptic Filters Employing Inductive Windows and Dielectric Objects. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 2393-2398.	4.6	8
67	Practical Implementation of the Spatial Images Technique for the Analysis of Shielded Multilayered Printed Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008, 56, 131-141.	4.6	8
68	Spatio-temporal Talbot phenomenon using metamaterial composite right/left-handed leaky-wave antennas. <i>Journal of Applied Physics</i> , 2008, 104, 104901.	2.5	8
69	Broadband and low-beam squint leaky wave radiation from a uniaxially anisotropic grounded slab. <i>Radio Science</i> , 2011, 46, .	1.6	8
70	Novel Implementations for Microstrip Resonator Filters in Transversal and Alternative Topologies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011, 59, 242-249.	4.6	8
71	Analysis of the radiation characteristics of CRLH LWAs around broadside. , 2012, , .		8
72	Enhancing the spurious free range in inductive rectangular waveguide filters. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
73	Novel Spatial Domain Integral Equation Formulation for the Analysis of Rectangular Waveguide Steps Close to Arbitrarily Shaped Dielectric and/or Conducting Posts. <i>Radio Science</i> , 2018, 53, 406-419.	1.6	8
74	Using genetic algorithms for compensating the local magnetic perturbation of a ship in the earth's magnetic field. <i>Microwave and Optical Technology Letters</i> , 2005, 47, 281-287.	1.4	7
75	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> , 2010, 4, 1617.	1.4	7
76	On the Relation Between Stored Energy and Fabrication Tolerances in Microwave Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 2131-2141.	4.6	7
77	Analysis and Design of Reflectarray Antennas Based on Delay Lines: A Filter Perspective. <i>IEEE Access</i> , 2020, 8, 44947-44956.	4.2	7
78	Design and implementation of evanescent mode waveguide filters using dielectrics and additive manufacturing techniques. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 116, 153065.	2.9	7
79	Analysis of thick-wire antennas using a novel and simple kernel treatment. <i>Microwave and Optical Technology Letters</i> , 2005, 46, 410-417.	1.4	6
80	PAMELA: a useful tool for the study of leaky-wave modes in strip-loaded open dielectric waveguides. <i>IEEE Antennas and Propagation Magazine</i> , 2006, 48, 54-72.	1.4	6
81	Rigorous investigation of RF breakdown effects in high power microstrip passive circuits. , 2009, , .		6
82	A new neural network technique for the design of multilayered microwave shielded bandpass filters. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2009, 19, 405-415.	1.2	6
83	A Grounded MoM-Based Spatial Green's Function Technique for the Analysis of Multilayered Circuits in Rectangular Shielded Enclosures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011, 59, 533-541.	4.6	6
84	Multimodal Characterization of the Multipactor Effect in Microwave Waveguide Components. <i>IEEE Microwave and Wireless Components Letters</i> , 2012, 22, 61-63.	3.2	6
85	Rigorous derivation of lossy equivalent circuit for narrowband waveguide directâ€œcoupledâ€œcavity filters. <i>IET Microwaves, Antennas and Propagation</i> , 2013, 7, 251-258.	1.4	6
86	Comments on â€œOn the Relation Between Stored Energy and Fabrication Tolerances in Microwave Filtersâ€œ. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013, 61, 1397-1397.	4.6	6
87	Efficient optimizationâ€œoriented design methodology of highâ€œorder 3â€œ filters using 2â€œ and 3â€œ electromagnetic simulators. <i>International Journal of Circuit Theory and Applications</i> , 2015, 43, 1431-1445.	2.0	6
88	Integral-Equation Formulation for the Analysis of Capacitive Waveguide Filters Containing Dielectric and Metallic Arbitrarily Shaped Objects and Novel Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 3862-3873.	4.6	6
89	Reconfigurable Coplanar Waveguide (CPW) and Half-Mode Substrate Integrated Waveguide (HMSIW) Band-Stop Filters Using a Varactor-Loaded Metamaterial-Inspired Open Resonator. <i>Materials</i> , 2018, 11, 39.	2.9	6
90	Nonreciprocal filtering power dividers. <i>AEU - International Journal of Electronics and Communications</i> , 2021, 132, 153609.	2.9	6

#	ARTICLE	IF	CITATIONS
91	Leaky and surface waves in multilayered laterally-shielded microstrip transmission lines. Microwave and Optical Technology Letters, 2003, 37, 88-93.	1.4	5
92	A novel full-wave CAD for the design of tapered leaky-wave antennas in hybrid waveguide printed-circuit technology. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 297-308.	1.2	5
93	Efficient full-wave analysis method of leaky-wave modes in periodically loaded dielectric waveguides with application to backward-to-forward frequency-scannable antennas and metamaterials. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2006, 19, 173-193.	1.9	5
94	Investigation of Multipaction Phenomena in Passive Waveguide Filters for Space Applications. , 2006, , .		5
95	Simple control of the polarisation in uniform hybrid waveguide-planar leaky-wave antennas. IET Microwaves, Antennas and Propagation, 2007, 1, 911.	1.4	5
96	ANALYSIS OF INDUCTIVE WAVEGUIDE MICROWAVE COMPONENTS USING AN ALTERNATIVE PORT TREATMENT AND EFFICIENT FAST MULTIPOLE. Progress in Electromagnetics Research, 2007, 68, 71-90.	4.4	5
97	Tunable Talbot imaging distance using an array of beam-steered metamaterial leaky-wave antennas. Journal of Applied Physics, 2009, 106, 084908.	2.5	5
98	2D to 3D rectangular waveguide filter designs from linear iterated prediction space mapping optimization. Microwave and Optical Technology Letters, 2009, 51, 1979-1983.	1.4	5
99	Transverse resonance analysis of a planar leaky wave antenna with flexible control of the complex propagation constant. , 2011, , .		5
100	Analysis of the radiation efficiency of a horizontal electric dipole on a grounded dielectric slab. , 2011, , .		5
101	Surface plasmons in graphene cylindrical waveguides. , 2014, , .		5
102	Efficient formulation of Multimode Equivalent Networks for 2-D waveguide steps through Kummer's transformation. , 2017, , .		5
103	Compact Double Notch Coplanar and Microstrip Bandstop Filters Using Metamaterialâ€”Inspired Open Ring Resonators. Electronics (Switzerland), 2021, 10, 330.	3.1	5
104	Integrated SSFIP-horn antenna at 75 GHz. Microwave and Optical Technology Letters, 2000, 26, 298-302.	1.4	4
105	Impedance Representation of Waveguide Junctions Based on the Integral Equation Approach. , 2000, , .		4
106	Green's functions for vertical current sources embedded in uniform waveguides or cavities filled with multilayered media. Microwave and Optical Technology Letters, 2002, 33, 186-191.	1.4	4
107	Multipactor Analysis in Microwave Components for High-Power Satellite Applications. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	4
108	Efficient Analysis tool of Inductive Passive Waveguide Components and Circuits using a Novel Spatial Domain Integral Equation Formulation. , 2006, , .		4

#	ARTICLE	IF	CITATIONS
109	Efficient integral equation formulation for inductive waveguide components with posts touching the waveguide walls. Radio Science, 2007, 42, .	1.6	4
110	Radiation efficiency enhancement of a horizontal dipole on an electrically thick substrate by a PMC ground plane. , 2011, , .		4
111	Formal Expression of Sensitivity and Energy Relationship in the Context of the Coupling Matrix. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3369-3375.	4.6	4
112	Advanced lumped-element trisection filter for digital microwave power amplifiers. , 2014, , .		4
113	Modified split-ring resonator for microstrip dual-band notch filter. , 2015, , .		4
114	Electronically tunable microstrip bandstop filters using a varactor-loaded open ring resonator (VLORR). Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
115	Multimode Equivalent Network for Boxed Multilayer Arbitrary Planar Circuits. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2501-2514.	4.6	4
116	Evanescent mode filters composed of dielectric parts built using 3D-printing methods. , 2021, , .		4
117	A Flexible and Low-Cost UHF RFID Tag Antenna for Blood Bag Traceability. Electronics (Switzerland), 2022, 11, 439.	3.1	4
118	Multimode network analysis of planar transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 2621-2626.	4.6	3
119	Slot antenna on a photonic crystal substrate: Green's function study. , 1999, , .		3
120	A new family of microstrip open-loop resonator filters for high-selectivity applications. Microwave and Optical Technology Letters, 2004, 43, 450-455.	1.4	3
121	Application of the high-gain substrate-superstrate configuration to dielectric leaky-wave antennas. IEEE Microwave and Wireless Components Letters, 2005, 15, 250-252.	3.2	3
122	A neural network method for the analysis of multilayered shielded microwave circuits. , 2005, , .		3
123	Analysis of finite microstrip structures using an efficient implementation of the integral equation technique. Radio Science, 2005, 40, n/a-n/a.	1.6	3
124	Comparison between the Kummer's transformation and Ewald method for the evaluation of the parallel plate Green's functions. , 2006, , .		3
125	Design of a Bandpass Transversal Filter Employing a Novel Hybrid Waveguide-Printed Structure. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	3
126	Numerical evaluation of the Green's functions for arbitrarily shaped cylindrical enclosures and their optimization by a new spatial images method. Radio Science, 2007, 42, .	1.6	3



#	ARTICLE	IF	CITATIONS
127	Novel Implementation of Transversal Filters in Multilayered Microstrip Technology. Journal of Electromagnetic Waves and Applications, 2010, 24, 1241-1253.	1.6	3
128	E-plane radiation pattern analysis of rectangular horn antennas with V-shaped corrugations by UTD-PO formulation. Radio Science, 2012, 47, .	1.6	3
129	Evaluation of time domain electromagnetic fields radiated by constant velocity moving particles traveling along an arbitrarily shaped cross-section waveguide using frequency domain Green's functions. Radio Science, 2012, 47, .	1.6	3
130	HYBRID METAHEURISTICS FOR THE DESIGN OF COUPLED RESONATOR FILTERS. Applied Artificial Intelligence, 2013, 27, 323-350.	3.2	3
131	A tapered CRLH mushroom-like leaky wave antenna with reduced sidelobe level. , 2014, , .		3
132	Advanced lumped-element filters for digital microwave power amplifiers. International Journal of Microwave and Wireless Technologies, 2015, 7, 589-596.	1.9	3
133	Synthesis and design of suspended substrate stripline filters for digital microwave power amplifiers. , 2016, , .		3
134	SIW-based Reflectarray Antennas with Sharp Gain Selectivity and Large Bandwidth. , 2018, , .		3
135	Rigorous Multimode Equivalent Network Representation of Multilayer Planar Circuits. , 2018, , .		3
136	Time-modulated Patch Antennas with Nonreciprocal Polarization Handedness. , 2020, , .		3
137	Rigorous, multimode equivalent network representation of capacitive discontinuities. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1195-1206.	4.6	2
138	A microstrip-coupled slot-loop antenna for integrated receivers in the millimeter-wave band. Microwave and Optical Technology Letters, 1998, 18, 91-95.	1.4	2
139	Broadside couplings for high-selectivity microstrip filters. Microwave and Optical Technology Letters, 2001, 30, 295-302.	1.4	2
140	Radiation analysis in the space domain of laterally shielded planar transmission lines: 1. Theory. Radio Science, 2004, 39, n/a-n/a.	1.6	2
141	Two simple implementations of transversal filters with coupling between non-resonant nodes. , 2005, , .		2
142	A novel leaky-wave antenna combining an image NRD guide and a strip circuit. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 289-292.	4.0	2
143	Simple Analysis and Design of a New Leaky-Wave Directional Coupler in Hybrid Dielectric-Waveguide Printed-Circuit Technology. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3534-3542.	4.6	2
144	A multilayered shielded microwave circuit design method based on genetic algorithms and neural networks. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
145	Novel and simple technique to control the polarization in stub-loaded leaky-wave antennas. , 2007, , .		2
146	Wavelet-like efficient analysis of two-dimensional arbitrarily shaped radomes using a surface formulation. Radio Science, 2007, 42, .	1.6	2
147	Analysis and implementation of different topologies of transversal filters in planar technology. Radio Science, 2008, 43, .	1.6	2
148	Characterization of pulse radiation by CRLH leaky-wave antennas using a time-domain Green's function approach. , 2008, , .		2
149	Impulse regime CRLH resonator for tunable pulse rate multiplication. Radio Science, 2009, 44, .	1.6	2
150	Complex waveguide filter topologies employing inductive windows and dielectric objects. IET Microwaves, Antennas and Propagation, 2014, 8, 1305-1312.	1.4	2
151	UTD-PO Radiation Pattern Analysis of Rectangular Horn Antennas With Cylindrical Corrugations. IEEE Transactions on Antennas and Propagation, 2014, 62, 5911-5915.	5.1	2
152	Study of spatial dispersion in graphene parallel-plate waveguides and equivalent circuit. , 2014, , .		2
153	Design of manifold multiplexers in all-inductive dual-mode rectangular waveguide technology using the coupling matrix formalism. Radio Science, 2016, 51, 1065-1080.	1.6	2
154	An Efficient Technique to Assess the Convergence of the Multimode Equivalent Network for Waveguide Devices. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 651-659.	4.6	2
155	Advanced filter design technique based on equivalent circuits and coupling matrix segmentation. International Journal of Circuit Theory and Applications, 2018, 46, 1055-1071.	2.0	2
156	Study on Multipactor Breakdown in Coaxial to Microstrip Transitions. , 2018, , .		2
157	Frequency Correction Design Technique for Additive Manufactured Cavity Filters. , 2018, , .		2
158	Electric Multimode Equivalent Network Technique for Multilayer Shielded Circuits Based on Arbitrary Rectangular Elements. , 2019, , .		2
159	A novel low-pass filter based on dielectric impedance inverters to enhance the multipactor breakdown threshold. AEU - International Journal of Electronics and Communications, 2022, 143, 154040.	2.9	2
160	MoM/BI-RME analysis of boxed microwave circuits based on arbitrarily shaped elements. , 0, , .		1
161	Radiation analysis in the space domain of laterally shielded planar transmission lines: 2. Applications. Radio Science, 2004, 39, n/a-n/a.	1.6	1
162	Analysis of microstrip-to-circular-waveguide transitions by a new spatial-images method. Microwave and Optical Technology Letters, 2005, 45, 563-568.	1.4	1

#	ARTICLE	IF	CITATIONS
163	A New Leaky-Wave Directional Coupler in Hybrid Dielectric-Waveguide Printed-Circuit Technology. , 2006, , .		1
164	Numerical Evaluation of the Green's functions for Arbitrarily Shaped Enclosures. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	1
165	Efficient software tool for the analysis of planar-based metamaterial structures. , 2007, , .		1
166	Novel Microwave Network for the Leaky-Wave Analysis of Evanescent Fields in Stub-Loaded Structures. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1405-1412.	4.6	1
167	Simple and accurate transverse equivalent network to model radiation from hybrid leaky-wave antennas with control of the polarization. , 2008, , .		1
168	Analysis of inductive multiport microwave devices employing a novel double parallel plate approach. IET Microwaves, Antennas and Propagation, 2008, 2, 171-179.	1.4	1
169	Novel Broadside Trisection Filters Employing Nonresonating Nodes. , 2008, , .		1
170	A novel approach for the evaluation of electromagnetic fields using rigorous wire antenna models. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
171	Leaky-mode dispersion analysis in parallel-plate waveguides loaded with FSS and AMC with application to 1D leaky-wave antennas. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
172	An efficient multilayered shielded microwave circuit analysis method based on neural networks. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 619-629.	1.2	1
173	An iteratively refined circuital model of CRLH leaky-wave antennas derived from the mushroom structure. , 2010, , .		1
174	Novel integral equation formulation for the analysis of capacitive waveguide filters containing dielectric objects. , 2011, , .		1
175	Radiation Characteristics of Mushroom-Like PPW LWAs: Analysis and Experimental Verification. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 584-587.	4.0	1
176	Parallelizing the Computation of Green Functions for Computational Electromagnetism Problems. , 2012, , .		1
177	Hybrid-parallel Algorithms for 2D Green's Functions. Procedia Computer Science, 2013, 18, 541-550.	2.0	1
178	Analysis and design of controllable leaky-wave antennas inspired by Prof. Arthur Oliner a tribute to Prof. Oliner. , 2014, , .		1
179	Synthesis and design of a dual-band dual-mode filter in all inductive waveguide technology. , 2014, , .		1
180	Microfluidic beamscanning optical leaky-wave antenna concept. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
181	Design of a triband lumped element filter for digital microwave power amplifiers. , 2015, , .		1
182	Non-reciprocal leaky-wave antenna at THz based on spatiotemporally modulated graphene. , 2016, , .		1
183	Non-reciprocal THz components based on spatiotemporally modulated graphene. , 2016, , .		1
184	Half mode substrate integrated waveguide (HMSIW) notch filters using open ring resonators. , 2017, , .		1
185	Integral Equation Analysis of Multiport H-plane Devices Containing Arbitrarily Shaped Metallic and/or Dielectric Posts by Using Two-Dimensional Cavity and Parallel Plate Green's Functions. , 2019, , .		1
186	On the analysis of capacitive rectangular waveguide discontinuities close to arbitrarily shaped conducting and dielectric posts. AEU - International Journal of Electronics and Communications, 2020, 113, 152976.	2.9	1
187	Wideband Bandpass Filters Using a Novel Thick Metallization Technology. IEEE Access, 2020, 8, 34962-34972.	4.2	1
188	A <sc>nonâ€reciprocal</sc> bandpass diplexer. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22592.	1.2	1
189	Improvement of Traceability Processes in the Farmed Fish Supply Chain. , 2013, , 1065-1070.		1
190	Time-Modulated Patch Antennas With Tunable and Nonreciprocal Polarization Response. IEEE Access, 2022, 10, 59057-59067.	4.2	1
191	Wire and Patch Method of Moments Models of Coaxial to Arbitrary Waveguide Transitions. , 0, , .		0
192	An Efficient Procedure for the Optimization of Cavity Backed Printed Antennas for Broadband Communications. , 1998, , .		0
193	A simple low-cost coplanar twin-slot active antenna oscillator for wireless applications. Microwave and Optical Technology Letters, 1999, 23, 18-25.	1.4	0
194	Accurate Analysis and Modeling of Compact CPW-Fed Printed Antennas. , 2000, , .		0
195	A simple simulation of 2D radomes using line source excitation and Fast Multipole Method. , 0, , .		0
196	Wavelet-like based Efficient Analysis of Dielectric and Magnetic Scatterers using the Equivalence Principle. , 0, , .		0
197	2D Surface Formulation For Conducting Objects Coated in Multilayered Homogeneous Media Using the Fast Multipole Method. , 0, , .		0
198	Analysis of Microstrip to Circular Waveguide Transitions by a New Spatial Images Method. , 0, , .		0

#	ARTICLE	IF	CITATIONS
199	Radar Cross Section Computation of Multi-layered Dielectric and Magnetic Obstacles using an efficient Wavelet-like method. , 0, , .		0
200	Efficient Analysis of Inductive Multiport Waveguide Circuits using a Surface Integral Equation Formulation. , 2006, , .		0
201	Novel mechanism to taper the illumination of second higher-order mode microstrip leaky-wave antennas. , 2007, , .		0
202	Efficient novel IE analysis for inductive structures with obstacles attached to the waveguide walls. , 2007, , .		0
203	An interpolated spatial images method for the analysis of multilayered shielded microwave circuits. Microwave and Optical Technology Letters, 2008, 50, 2294-2300.	1.4	0
204	Enhanced topology for the design of bandpass elliptic filters employing inductive windows and dielectric objects. , 2008, , .		0
205	Time-domain Green's function technique for highly-dispersive metamaterial waveguide and antenna structures. , 2008, , .		0
206	Numerical analysis of impulse regime phenomena in linear and non-linear metamaterial transmission lines. , 2009, , .		0
207	Efficient calculation of the Green's functions for multilayered shielded cavities with right isosceles-triangular cross-section. IET Microwaves, Antennas and Propagation, 2009, 3, 736.	1.4	0
208	Use of ground planes within the spatial images technique: Application to the analysis of rectangular multilayered shielded enclosures. , 2010, , .		0
209	Spectral Transmission Line Analysis of a Composite Right/Left-Handed Uniaxially Anisotropic Meta-substrate. , 2010, , .		0
210	Analytical Evaluation of the Static MoM Terms for Volume and Surface Rectangular Domains. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 87-90.	4.0	0
211	Development of a small Radio Telescope at the Technical University of Cartagena: A duty with our students and society. , 2010, , .		0
212	Systematic algorithm for the design of hybrid waveguide-microstrip transversal microwave filters. IET Microwaves, Antennas and Propagation, 2011, 5, 1303.	1.4	0
213	Plasmonic devices and spatial dispersion effects in graphene technology for terahertz applications. , 2015, , .		0
214	Surface plasmon modes in self-biased coupled graphene-coated wires. , 2015, , .		0
215	Green's functions for 2D periodic structures and applications to the analysis of waveguide components. , 2016, , .		0
216	Integral equation analysis of capacitive waveguide circuits. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
217	Characterization of dielectric materials with a modified DIRECT algorithm. , 2016, , .		0
218	Strong light-matter interactions in thin black phosphorus films. , 2016, , .		0
219	Opportunities in phosphorene plasmonic metasurfaces. , 2017, , .		0
220	An approach for the efficient optimization-oriented design of high-order 3-D filters. , 2017, , .		0
221	Filter design for folded canonical topologies based on equivalent circuit segmentation. AEU - International Journal of Electronics and Communications, 2019, 109, 157-165.	2.9	0
222	A Ground Slotted UHF Tag Antenna For Blood Bags Monitoring. , 2019, , .		0
223	Novel Integral Equation Formulation for the Analysis of Capacitive Step Discontinuities. , 2019, , .		0
224	Nonreciprocal Antennas based on Time-Modulation: Challenges and opportunities. , 2020, , .		0
225	Multimode Equivalent Networks for Shielded Microwave Circuits With Thick Metallizations. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5004-5013.	4.6	0
226	Alternative Solutions for Reducing the Undesired Coupling Effect in Stub Loaded Microstrip Filters for Ka-band Applications. , 2021, , .		0
227	Singular Analytical Integration for Efficient Volume Integral Equation Implementation. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 501-505.	0.4	0
228	Process for Compensating Local Magnetic Perturbations on Ferromagnetic Surfaces. Journal of Electromagnetic Analysis and Applications, 2012, 04, 387-399.	0.2	0
229	Wide-band full-wave electromagnetic modal analysis of the coupling between dark-matter axions and photons in microwave resonators. Physics of the Dark Universe, 2022, 36, 101001.	4.9	0