Alejandro Alvarez-Melcon

List of Publications by Year
in descending order

229	2,554	236833	265120
papers	citations	25 h-index	42 g-index

230	230	230	2030
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene-Based Plasmonic Tunable Low-Pass Filters in the Terahertz Band. IEEE Nanotechnology Magazine, 2014, 13, 1145-1153.	1.1	122
2	Black phosphorus plasmonics: anisotropic elliptical propagation and nonlocality-induced canalization. Journal of Optics (United Kingdom), 2016, 18, 104006.	1.0	102
3	Nonreciprocal Graphene Devices and Antennas Based on Spatiotemporal Modulation. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1529-1532.	2.4	101
4	Advanced traceability system in aquaculture supply chain. Journal of Food Engineering, 2014, 122, 99-109.	2.7	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.	3.1	87
6	Nonreciprocal Wavefront Engineering with Time-Modulated Gradient Metasurfaces. Physical Review Applied, 2019, 11, .	1.5	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.	2.0	84
8	Axion searches with microwave filters: the RADES project. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 040-040.	1.9	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.	2.9	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.	3.1	63
11	Frequency Steerable Two Dimensional Focusing Using Rectilinear Leaky-Wave Lenses. IEEE Transactions on Antennas and Propagation, 2011, 59, 407-415.	3.1	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.	3.1	55
13	Isolating Bandpass Filters Using Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2331-2345.	2.9	49
14	Efficient CAD of boxed microwave circuits based on arbitrary rectangular elements. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 1045-1058.	2.9	43
15	First results of the CAST-RADES haloscope search for axions at 34.67 Î¼eV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	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.	3.1	39
18	Coupling Matrix Representation of Nonreciprocal Filters Based on Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4751-4763.	2.9	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.	1.6	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.	2.9	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, .	1.5	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.	2.9	30
24	Two compact configurations for implementing transmission zeros in microstrip filters. IEEE Microwave and Wireless Components Letters, 2004, 14, 475-477.	2.0	29
25	Nonreciprocal Yagiâ€“Uda Filtering Antennas. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2661-2665.	2.4	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.	2.9	28
27	A Simple CRLH LWA Circuit Condition for Constant Radiation Rate. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 29-32.	2.4	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.	2.9	27
29	Scalable haloscopes for axion dark matter detection in the 30 Î¼eV range with RADES. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
30	MoM/BI-RME analysis of boxed MMICs with arbitrarily shaped metallizations. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 2227-2234.	2.9	26
31	Frequency Tunable Non-Reciprocal Bandpass Filter Using Time-Modulated Microstrip Î»_g/2 Resonators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 667-671.	2.2	26
32	Design of Bandpass Transversal Filters Employing a Novel Hybrid Structure. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2670-2678.	2.9	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.	2.9	24
34	Rfid-based traceability along the food-production chain [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2014, 56, 196-207.	1.2	24
35	Investigation on the Phenomenology of Impulse-Regime Metamaterial Transmission Lines. IEEE Transactions on Antennas and Propagation, 2009, 57, 4010-4014.	3.1	23
36	Printed-circuit leaky-wave antenna with pointing and illumination flexibility. IEEE Microwave and Wireless Components Letters, 2005, 15, 536-538.	2.0	22

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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.	2.9	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.	2.4	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.	3.1	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.	2.0	21
42	Flexible UHF RFID Tag for Blood Tubes Monitoring. Sensors, 2019, 19, 4903.	2.1	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.	3.1	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.	3.1	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.	2.9	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.	2.9	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.	1.7	14
49	Narrowband and Wideband Bandpass Filters Based on Empty Substrate Integrated Waveguide Loaded With Dielectric Elements. IEEE Access, 2021, 9, 32094-32105.	2.6	13
50	Radiation Efficiency Issues in Planar Antennas on Electrically Thick Substrates and Solutions. IEEE Transactions on Antennas and Propagation, 2013, 61, 4013-4025.	3.1	12
51	Design of Dual-Bandpass Hybrid Waveguideâ€“Microstrip Microwave Filters. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2913-2920.	2.9	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.	1.3	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.	2.9	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.	1.7	11

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55	Interactive Lab to Learn Radio Astronomy, Microwave & Antenna Engineering at the Technical University of Cartagena (Spain). International Journal of Online and Biomedical Engineering, 2011, 7, 10.	0.9	11
56	A Novel Efficient Technique for the Calculation of the Green's Functions in Rectangular Waveguides Based on Accelerated Series Decomposition. IEEE Transactions on Antennas and Propagation, 2008, 56, 3260-3270.	3.1	10
57	Optimization-Oriented Design of RF/Microwave Circuits Using Inverse-Linear-Input Neuro-Fuzzy-Output Space Mapping With Two Different Dimensionality Simulators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 176-185.	3.5	10
58	An efficient integral equation technique for the analysis of arbitrarily shaped capacitive waveguide circuits. Radio Science, 2011, 46, .	0.8	10
59	A full-wave space-domain method for the analysis of leaky-wave modes in multilayered planar open parallel-plate waveguides. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 128-139.	0.8	9
60	Multipactor radiation analysis within a waveguide region based on a frequency-domain representation of the dynamics of charged particles. Physical Review E, 2009, 79, 046604.	0.8	9
61	Microstrip notch filters based on open interconnected split ring resonators (OISRRs). Applied Physics A: Materials Science and Processing, 2013, 112, 263-267.	1.1	9
62	Enhanced topologies for the design of dualâ€mode filters using inductive waveguide structures. Radio Science, 2015, 50, 66-77.	0.8	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. Universe, 2022, 8, 5.	0.9	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. Microwave and Optical Technology Letters, 2005, 44, 61-66.	0.9	8
66	Design of Bandpass Elliptic Filters Employing Inductive Windows and Dielectric Objects. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2393-2398.	2.9	8
67	Practical Implementation of the Spatial Images Technique for the Analysis of Shielded Multilayered Printed Circuits. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 131-141.	2.9	8
68	Spatio-temporal Talbot phenomenon using metamaterial composite right/left-handed leaky-wave antennas. Journal of Applied Physics, 2008, 104, 104901.	1.1	8
69	Broadband and lowâ€beam squint leaky wave radiation from a uniaxially anisotropic grounded slab. Radio Science, 2011, 46, .	0.8	8
70	Novel Implementations for Microstrip Resonator Filters in Transversal and Alternative Topologies. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 242-249.	2.9	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

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73	Novel Spatial Domain Integral Equation Formulation for the Analysis of Rectangular Waveguide Steps Close to Arbitrarily Shaped Dielectric and/or Conducting Posts. Radio Science, 2018, 53, 406-419.	0.8	8
74	Using genetic algorithms for compensating the local magnetic perturbation of a ship in the earth's magnetic field. Microwave and Optical Technology Letters, 2005, 47, 281-287.	0.9	7
75	Efficient time-domain analysis of highly dispersive linear and non-linear metamaterial waveguide and antenna structures operated in the impulse-regime. IET Microwaves, Antennas and Propagation, 2010, 4, 1617.	0.7	7
76	On the Relation Between Stored Energy and Fabrication Tolerances in Microwave Filters. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2131-2141.	2.9	7
77	Analysis and Design of Reflectarray Antennas Based on Delay Lines: A Filter Perspective. IEEE Access, 2020, 8, 44947-44956.	2.6	7
78	Design and implementation of evanescent mode waveguide filters using dielectrics and additive manufacturing techniques. AEU - International Journal of Electronics and Communications, 2020, 116, 153065.	1.7	7
79	Analysis of thick-wire antennas using a novel and simple kernel treatment. Microwave and Optical Technology Letters, 2005, 46, 410-417.	0.9	6
80	PAMELA: a useful tool for the study of leaky-wave modes in strip-loaded open dielectric waveguides. IEEE Antennas and Propagation Magazine, 2006, 48, 54-72.	1.2	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. International Journal of RF and Microwave Computer-Aided Engineering, 2009, 19, 405-415.	0.8	6
83	A Grounded MoM-Based Spatial Green's Function Technique for the Analysis of Multilayered Circuits in Rectangular Shielded Enclosures. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 533-541.	2.9	6
84	Multimodal Characterization of the Multipactor Effect in Microwave Waveguide Components. IEEE Microwave and Wireless Components Letters, 2012, 22, 61-63.	2.0	6
85	Rigorous derivation of lossy equivalent circuit for narrowband waveguide directâ€coupledâ€cavity filters. IET Microwaves, Antennas and Propagation, 2013, 7, 251-258.	0.7	6
86	Comments on â€œOn the Relation Between Stored Energy and Fabrication Tolerances in Microwave Filtersâ€• IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1397-1397.	2.9	6
87	Efficient optimizationâ€oriented design methodology of highâ€order 3â€Ð filters using 2â€Ð and 3â€Ð electromagnetic simulators. International Journal of Circuit Theory and Applications, 2015, 43, 1431-1445.	1.3	6
88	Integral-Equation Formulation for the Analysis of Capacitive Waveguide Filters Containing Dielectric and Metallic Arbitrarily Shaped Objects and Novel Applications. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3862-3873.	2.9	6
89	Reconfigurable Coplanar Waveguide (CPW) and Half-Mode Substrate Integrated Waveguide (HMSIW) Band-Stop Filters Using a Varactor-Loaded Metamaterial-Inspired Open Resonator. Materials, 2018, 11, 39.	1.3	6
90	Nonreciprocal filtering power dividers. AEU - International Journal of Electronics and Communications, 2021, 132, 153609.	1.7	6

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91	Leaky and surface waves in multilayered laterally-shielded microstrip transmission lines. Microwave and Optical Technology Letters, 2003, 37, 88-93.	0.9	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.	0.8	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.	1.2	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.	0.7	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.	1.6	5
97	Tunable Talbot imaging distance using an array of beam-steered metamaterial leaky-wave antennas. Journal of Applied Physics, 2009, 106, 084908.	1.1	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.	0.9	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.	1.8	5
104	Integrated SSFIP-horn antenna at 75 GHz. Microwave and Optical Technology Letters, 2000, 26, 298-302.	0.9	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.	0.9	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

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109	Efficient integral equation formulation for inductive waveguide components with posts touching the waveguide walls. Radio Science, 2007, 42, .	0.8	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.	2.9	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.	1.1	4
115	Multimode Equivalent Network for Boxed Multilayer Arbitrary Planar Circuits. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2501-2514.	2.9	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.	1.8	4
118	Multimode network analysis of planar transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 2621-2626.	2.9	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.	0.9	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.	2.0	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.	0.8	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, .	0.8	3

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127	Novel Implementation of Transversal Filters in Multilayered Microstrip Technology. Journal of Electromagnetic Waves and Applications, 2010, 24, 1241-1253.	1.0	3
128	Eâ€plane radiation pattern analysis of rectangular horn antennas with Vâ€shaped corrugations by UTDâ€PO formulation. Radio Science, 2012, 47, .	0.8	3
129	Evaluation of time domain electromagnetic fields radiated by constant velocity moving particles traveling along an arbitrarily shaped crossâ€section waveguide using frequency domain Green's functions. Radio Science, 2012, 47, .	0.8	3
130	HYBRID METAHEURISTICS FOR THE DESIGN OF COUPLED RESONATOR FILTERS. Applied Artificial Intelligence, 2013, 27, 323-350.	2.0	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.	1.5	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.	2.9	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.	0.9	2
139	Broadside couplings for high-selectivity microstrip filters. Microwave and Optical Technology Letters, 2001, 30, 295-302.	0.9	2
140	Radiation analysis in the space domain of laterally shielded planar transmission lines: 1. Theory. Radio Science, 2004, 39, n/a-n/a.	0.8	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.	2.4	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.	2.9	2
144	A multilayered shielded microwave circuit design method based on genetic algorithms and neural networks. , 2006, , .		2

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145	Novel and simple technique to control the polarization in stub-loaded leaky-wave antennas. , 2007, , .		2
146	Waveletâ€like efficient analysis of twoâ€dimensional arbitrarily shaped radomes using a surface formulation. Radio Science, 2007, 42, .	0.8	2
147	Analysis and implementation of different topologies of transversal filters in planar technology. Radio Science, 2008, 43, .	0.8	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, .	0.8	2
150	Complex waveguide filter topologies employing inductive windows and dielectric objects. IET Microwaves, Antennas and Propagation, 2014, 8, 1305-1312.	0.7	2
151	UTD-PO Radiation Pattern Analysis of Rectangular Horn Antennas With Cylindrical Corrugations. IEEE Transactions on Antennas and Propagation, 2014, 62, 5911-5915.	3.1	2
152	Study of spatial dispersion in graphene parallel-plate waveguides and equivalent circuit. , 2014, , .		2
153	Design of manifold multiplexers in allâ€inductive dualâ€mode rectangular waveguide technology using the coupling matrix formalism. Radio Science, 2016, 51, 1065-1080.	0.8	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.	2.9	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.	1.3	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.	1.7	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.	0.8	1
162	Analysis of microstrip-to-circular-waveguide transitions by a new spatial-images method. Microwave and Optical Technology Letters, 2005, 45, 563-568.	0.9	1

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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.	2.9	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.	0.7	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.	0.8	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.	2.4	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.	1.2	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

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