Alejandro Alvarez-Melcon

List of Publications by Year
in descending order

229	2,554	270111	299063
papers	citations	25 h-index	42 g-index

230	230	230	2260
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	A Flexible and Low-Cost UHF RFID Tag Antenna for Blood Bag Traceability. Electronics (Switzerland), 2022, 11, 439.	1.8	4
3	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
4	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.	1.8	0
5	Time-Modulated Patch Antennas With Tunable and Nonreciprocal Polarization Response. IEEE Access, 2022, 10, 59057-59067.	2.6	1
6	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
7	Alternative Solutions for Reducing the Undesired Coupling Effect in Stub Loaded Microstrip Filters for Ka-band Applications. , 2021, , .		0
8	Narrowband and Wideband Bandpass Filters Based on Empty Substrate Integrated Waveguide Loaded With Dielectric Elements. IEEE Access, 2021, 9, 32094-32105.	2.6	13
9	Compact Double Notch Coplanar and Microstrip Bandstop Filters Using Metamaterialâ€"Inspired Open Ring Resonators. Electronics (Switzerland), 2021, 10, 330.	1.8	5
10	A <scp>nonâ€reciprocal</scp> bandpass diplexer. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22592.	0.8	1
11	Nonreciprocal filtering power dividers. AEU - International Journal of Electronics and Communications, 2021, 132, 153609.	1.7	6
12	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
13	Evanescent mode filters composed of dielectric parts built using 3D-printing methods. , 2021, , .		4
14	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.	1.7	1
15	Nonreciprocal Antennas based on Time-Modulation: Challenges and opportunities. , 2020, , .		0
16	Multimode Equivalent Networks for Shielded Microwave Circuits With Thick Metallizations. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5004-5013.	2.9	0
17	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
18	Multimode Equivalent Network for Boxed Multilayer Arbitrary Planar Circuits. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2501-2514.	2.9	4

#	Article	IF	Citations
19	Analysis and Design of Reflectarray Antennas Based on Delay Lines: A Filter Perspective. IEEE Access, 2020, 8, 44947-44956.	2.6	7
20	Wideband Bandpass Filters Using a Novel Thick Metallization Technology. IEEE Access, 2020, 8, 34962-34972.	2.6	1
21	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
22	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
23	Time-modulated Patch Antennas with Nonreciprocal Polarization Handedness. , 2020, , .		3
24	Filter design for folded canonical topologies based on equivalent circuit segmentation. AEU - International Journal of Electronics and Communications, 2019, 109, 157-165.	1.7	0
25	Nonreciprocal Yagiâ€“Uda Filtering Antennas. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2661-2665.	2.4	29
26	A Non-Reciprocal Microstrip Bandpass Filter Based on Spatio-Temporal Modulation. , 2019, , .		31
27	Nonreciprocal Phased-Array Antennas. Physical Review Applied, 2019, 12, .	1.5	31
28	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
29	Nonreciprocal Wavefront Engineering with Time-Modulated Gradient Metasurfaces. Physical Review Applied, 2019, 11, .	1.5	87
30	Isolating Bandpass Filters Using Time-Modulated Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2331-2345.	2.9	49
31	A Ground Slotted UHF Tag Antenna For Blood Bags Monitoring. , 2019, , .		0
32	Electric Multimode Equivalent Network Technique for Multilayer Shielded Circuits Based on Arbitrary Rectangular Elements. , 2019, , .		2
33	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
34	Flexible UHF RFID Tag for Blood Tubes Monitoring. Sensors, 2019, 19, 4903.	2.1	20
35	Novel Integral Equation Formulation for the Analysis of Capacitive Step Discontinuities. , 2019, , .		0
36	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

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37	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
38	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
39	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
40	SIW-based Reflectarray Antennas with Sharp Gain Selectivity and Large Bandwidth. , 2018, , .		3
41	Study on Multipactor Breakdown in Coaxial to Microstrip Transitions. , 2018, , .		2
42	Frequency Correction Design Technique for Additive Manufactured Cavity Filters. , 2018, , .		2
43	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
44	Rigorous Multimode Equivalent Network Representation of Multilayer Planar Circuits. , 2018, , .		3
45	Axion searches with microwave filters: the RADES project. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 040-040.	1.9	71
46	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
47	Opportunities in phosphorene plasmonic metasurfaces. , 2017, , .		0
48	An approach for the efficient optimization-oriented design of high-order 3-D filters. , 2017, , .		0
49	Efficient formulation of Multimode Equivalent Networks for 2-D waveguide steps through Kummer's transformation. , 2017, , .		5
50	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
51	Half mode substrate integrated waveguide (HMSIW) notch filters using open ring resonators. , 2017, , .		1
52	Green's functions for 2D periodic structures and applications to the analysis of waveguide components. , 2016, , .		0
53	Integral equation analysis of capacitive waveguide circuits. , 2016, , .		0
54	Synthesis and design of suspended substrate stripline filters for digital microwave power amplifiers. , 2016, , .		3

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55	Black phosphorus plasmonics: anisotropic elliptical propagation and nonlocality-induced canalization. Journal of Optics (United Kingdom), 2016, 18, 104006.	1.0	102
56	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
57	Characterization of dielectric materials with a modified DIRECT algorithm. , 2016, , .		0
58	Non-reciprocal leaky-wave antenna at THz based on spatiotemporally modulated graphene. , 2016, , .		1
59	Strong light-matter interactions in thin black phosphorus films. , 2016, , .		0
60	Non-reciprocal THz components based on spatiotemporally modulated graphene. , 2016, , .		1
61	Nonreciprocal Graphene Devices and Antennas Based on Spatiotemporal Modulation. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1529-1532.	2.4	101
62	Advanced lumped-element filters for digital microwave power amplifiers. International Journal of Microwave and Wireless Technologies, 2015, 7, 589-596.	1.5	3
63	Enhanced topologies for the design of dualâ€mode filters using inductive waveguide structures. Radio Science, 2015, 50, 66-77.	0.8	9
64	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
65	Enhancing the spurious free range in inductive rectangular waveguide filters. , 2015, , .		8
66	Design of a triband lumped element filter for digital microwave power amplifiers. , 2015, , .		1
67	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
68	Plasmonic devices and spatial dispersion effects in graphene technology for terahertz applications. , 2015, , .		0
69	Modified split-ring resonator for microstrip dual- band notch filter. , 2015, , .		4
70	Surface plasmon modes in self-biased coupled graphene-coated wires. , 2015, , .		0
71	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
72	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

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73	Advanced lumped-element trisection filter for digital microwave power amplifiers. , 2014, , .		4
74	Analysis and design of controllable leaky-wave antennas inspired by Prof. Arthur Oliner a tribute to Prof. Oliner. , 2014, , .		1
75	Complex waveguide filter topologies employing inductive windows and dielectric objects. IET Microwaves, Antennas and Propagation, 2014, 8, 1305-1312.	0.7	2
76	A tapered CRLH mushroom-like leaky wave antenna with reduced sidelobe level. , 2014, , .		3
77	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
78	Synthesis and design of a dual-band dual-mode filter in all inductive waveguide technology. , 2014, , .		1
79	Study of spatial dispersion in graphene parallel-plate waveguides and equivalent circuit. , 2014, , .		2
80	Advanced traceability system in aquaculture supply chain. Journal of Food Engineering, 2014, 122, 99-109.	2.7	98
81	Graphene-Based Plasmonic Tunable Low-Pass Filters in the Terahertz Band. IEEE Nanotechnology Magazine, 2014, 13, 1145-1153.	1.1	122
82	Microfluidic beamscanning optical leaky-wave antenna concept. , 2014, , .		1
83	Surface plasmons in graphene cylindrical waveguides. , 2014, , .		5
84	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
85	Rfid-based traceability along the food-production chain [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2014, 56, 196-207.	1.2	24
86	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
87	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
88	HYBRID METAHEURISTICS FOR THE DESIGN OF COUPLED RESONATOR FILTERS. Applied Artificial Intelligence, 2013, 27, 323-350.	2.0	3
89	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
90	Hybrid-parallel Algorithms for 2D Green's Functions. Procedia Computer Science, 2013, 18, 541-550.	1.2	1

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91	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
92	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
93	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
94	Improvement of Traceability Processes in the Farmed Fish Supply Chain. , 2013, , 1065-1070.		1
95	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
96	Parallelizing the Computation of Green Functions for Computational Electromagnetism Problems. , 2012, , .		1
97	Analysis of the radiation characteristics of CRLH LWAs around broadside. , 2012, , .		8
98	Eâ€plane radiation pattern analysis of rectangular horn antennas with Vâ€shaped corrugations by UTDâ€PO formulation. Radio Science, 2012, 47, .	0.8	3
99	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
100	Multimodal Characterization of the Multipactor Effect in Microwave Waveguide Components. IEEE Microwave and Wireless Components Letters, 2012, 22, 61-63.	2.0	6
101	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
102	Process for Compensating Local Magnetic Perturbations on Ferromagnetic Surfaces. Journal of Electromagnetic Analysis and Applications, 2012, 04, 387-399.	0.1	0
103	Novel integral equation formulation for the analysis of capacitive waveguide filters containing dielectric objects. , 2011, , .		1
104	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
105	Transverse resonance analysis of a planar leaky wave antenna with flexible control of the complex propagation constant. , 2011, , .		5
106	An efficient integral equation technique for the analysis of arbitrarily shaped capacitive waveguide circuits. Radio Science, 2011, 46, .	0.8	10
107	Broadband and lowâ€beam squint leaky wave radiation from a uniaxially anisotropic grounded slab. Radio Science, 2011, 46, .	0.8	8
108	Frequency Steerable Two Dimensional Focusing Using Rectilinear Leaky-Wave Lenses. IEEE Transactions on Antennas and Propagation, 2011, 59, 407-415.	3.1	59

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109	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
110	A Simple CRLH LWA Circuit Condition for Constant Radiation Rate. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 29-32.	2.4	28
111	Analysis of the radiation efficiency of a horizontal electric dipole on a grounded dielectric slab. , 2011, , .		5
112	Systematic algorithm for the design of hybrid waveguide-microstrip transversal microwave filters. IET Microwaves, Antennas and Propagation, 2011, 5, 1303.	0.7	0
113	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
114	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
115	Radiation efficiency enhancement of a horizontal dipole on an electrically thick substrate by a PMC ground plane. , 2011, , .		4
116	Radiation Characteristics of Mushroom-Like PPW LWAs: Analysis and Experimental Verification. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 584-587.	2.4	1
117	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
118	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
119	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
120	Use of ground planes within the spatial images technique: Application to the analysis of rectangular multilayered shielded enclosures. , 2010, , .		0
121	Novel Implementation of Transversal Filters in Multilayered Microstrip Technology. Journal of Electromagnetic Waves and Applications, 2010, 24, 1241-1253.	1.0	3
122	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
123	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
124	An iteratively refined circuital model of CRLH leaky-wave antennas derived from the mushroom structure. , 2010, , .		1
125	Spectral Transmission Line Analysis of a Composite Right/Left-Handed Uniaxially Anisotropic Meta-substrate. , 2010, , .		0
126	Analytical Evaluation of the Static MoM Terms for Volume and Surface Rectangular Domains. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 87-90.	2.4	0

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127	Development of a small Radio Telescope at the Technical University of Cartagena: A duty with our students and society. , 2010, , .		0
128	Bandwidth enhancement and beam squint reduction of leaky modes in a uniaxially anisotropic meta-substrate. , 2010, , .		14
129	Rigorous investigation of RF breakdown effects in high power microstrip passive circuits. , 2009, , .		6
130	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
131	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
132	Tunable Talbot imaging distance using an array of beam-steered metamaterial leaky-wave antennas. Journal of Applied Physics, 2009, 106, 084908.	1.1	5
133	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
134	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
135	Investigation on the Phenomenology of Impulse-Regime Metamaterial Transmission Lines. IEEE Transactions on Antennas and Propagation, 2009, 57, 4010-4014.	3.1	23
136	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
137	Numerical analysis of impulse regime phenomena in linear and non-linear metamaterial transmission lines. , 2009, , .		0
138	Impulse regime CRLH resonator for tunable pulse rate multiplication. Radio Science, 2009, 44, .	0.8	2
139	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.	0.7	0
140	An interpolated spatial images method for the analysis of multilayered shielded microwave circuits. Microwave and Optical Technology Letters, 2008, 50, 2294-2300.	0.9	0
141	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
142	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
143	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
144	Analysis and implementation of different topologies of transversal filters in planar technology. Radio Science, 2008, 43, .	0.8	2

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145	Simple and accurate transverse equivalent network to model radiation from hybrid leaky-wave antennas with control of the polarization. , 2008, , .		1
146	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
147	Novel Broadside Trisection Filters Employing Nonresonating Nodes. , 2008, , .		1
148	Design of Dual-Bandpass Hybrid Waveguideâ€“Microstrip Microwave Filters. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2913-2920.	2.9	11
149	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
150	Enhanced topology for the design of bandpass elliptic filters employing inductive windows and dielectric objects. , 2008, , .		0
151	Characterization of pulse radiation by CRLH leaky-wave antennas using a time-domain Green’s function approach. , 2008, , .		2
152	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
153	Spatio-temporal Talbot phenomenon using metamaterial composite right/left-handed leaky-wave antennas. Journal of Applied Physics, 2008, 104, 104901.	1.1	8
154	Time-domain Green's function technique for highly-dispersive metamaterial waveguide and antenna structures. , 2008, , .		0
155	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
156	Novel mechanism to taper the illumination of second higher-order mode microstrip leaky-wave antennas. , 2007, , .		0
157	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
158	Efficient novel IE analysis for inductive structures with obstacles attached to the waveguide walls. , 2007, , .		0
159	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
160	Efficient software tool for the analysis of planar-based metamaterial structures. , 2007, , .		1
161	Simple control of the polarisation in uniform hybrid waveguide-planar leaky-wave antennas. IET Microwaves, Antennas and Propagation, 2007, 1, 911.	0.7	5
162	Novel and simple technique to control the polarization in stub-loaded leaky-wave antennas. , 2007, , .		2

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163	Design of Bandpass Transversal Filters Employing a Novel Hybrid Structure. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2670-2678.	2.9	25
164	Waveletâ€like efficient analysis of twoâ€dimensional arbitrarily shaped radomes using a surface formulation. Radio Science, 2007, 42, .	0.8	2
165	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
166	Efficient integral equation formulation for inductive waveguide components with posts touching the waveguide walls. Radio Science, 2007, 42, .	0.8	4
167	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
168	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
169	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
170	Multipactor Analysis in Microwave Components for High-Power Satellite Applications. International Power Modulator Symposium and High-Voltage Workshop, 2006, , .	0.0	4
171	Efficient Analysis of Inductive Multiport Waveguide Circuits using a Surface Integral Equation Formulation. , 2006, , .		0
172	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
173	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
174	A New Leaky-Wave Directional Coupler in Hybrid Dielectric-Waveguide Printed-Circuit Technology. , 2006, , .		1
175	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
176	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
177	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
178	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
179	A multilayered shielded microwave circuit design method based on genetic algorithms and neural networks. , 2006, , .		2
180	Comparison between the Kummer's transformation and Ewald method for the evaluation of the parallel plate Green's functions. , 2006, , .		3

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181	Investigation of Multipaction Phenomena in Passive Waveguide Filters for Space Applications. , 2006, , .		5
182	Efficient Analysis tool of Inductive Passive Waveguide Components and Circuits using a Novel Spatial Domain Integral Equation Formulation. , 2006, , .		4
183	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
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