Ramon Gonzalo

List of Publications by Year
in descending order

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157	3,381	218677	161849
papers	citations	26 h-index	54 g-index

160	160	160	2427
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicon Integrated Subharmonic Mixer on a Photonic-Crystal Platform. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 79-89.	3.1	8
2	Design of a Planar Antenna on a Photonic-Crystal Silicon Cavity for a Submillimetre Wave Receiver. , 2021, , .		0
3	Remote Sensing for Plant Water Content Monitoring: A Review. Remote Sensing, 2021, 13, 2088.	4.0	20
4	A Millimeter-Wave 4th-Harmonic Schottky Diode Mixer with Integrated Local Oscillator. Applied Sciences (Switzerland), 2021, 11, 7238.	2.5	1
5	Modified Soret Lenses for Dual-Band Integrated Detectors at Millimetre and Submillimetre Wavelengths. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 107-117.	3.1	1
6	A Gap Waveguide-Based Compact Rectangular Waveguide to a Packaged Microstrip Inline Transition. Applied Sciences (Switzerland), 2020, 10, 4979.	2.5	6
7	Design of 300 GHz Combined Doubler/Subharmonic Mixer Based on Schottky Diodes with Integrated MMIC Based Local Oscillator. Electronics (Switzerland), 2020, 9, 2112.	3.1	4
8	Water Content Continuous Monitoring of Grapevine Xylem Tissue Using a Portable Low-Power Cost-Effective FMCW Radar. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5595-5605.	6.3	6
9	A Chebyshev Transformer-Based Microstri-to-Groove-Gap-Waveguide Inline Transition for MMIC Packaging. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1595-1602.	2.5	12
10	300 GHz Optoelectronic Transmitter Combining Integrated Photonics and Electronic Multipliers for Wireless Communication. Photonics, 2019, 6, 35.	2.0	9
11	Comparison of Fourth-harmonic and Combined Doubler/Subharmonic Mixer with integrated MMIC based Local Oscillator. , 2019, , .		0
12	Experimental Validation of a Ku-Band Dual-Circularly Polarized Metasurface Antenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 1153-1159.	5.1	27
13	Advanced Feeds for mm-Wave Antenna Systems. Signals and Communication Technology, 2018, , 75-110.	0.5	3
14	Dispersion Properties of an Elliptical Patch with Cross-Shaped Aperture for Synchronized Propagation of Transverse Magnetic and Electric Surface Waves. Applied Sciences (Switzerland), 2018, 8, 472.	2.5	1
15	A Simplified Design Inline Microstrip-to-Waveguide Transition. Electronics (Switzerland), 2018, 7, 215.	3.1	19
16	Implementation of a THz quasi-spiral antenna for THz-IR detector. , 2017, , .		0
17	Design of electronic subsystems for a 300 GHz wireless communication system. , 2017, , .		0
18	IR-Fresnel zone plate lens acting as THz antenna. , 2017, , .		3

#	Article	IF	Citations
19	Development of electronic subsystems for a terahertz wireless link. , 2017, , .		0
20	Dual-band integrated detector for THz and IR based on quasi-spiral antenna coupled to schottky diode. , 2016, , .		0
21	Towards a common integration platform for photonics and electronics. Challenges for assembly and packaging. , 2016, , .		0
22	Full W-band Microstrip Fed Vivaldi Antenna. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 786-794.	2.2	2
23	Monitoring Water Status of Grapevine by Means of THz Waves. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 507-513.	2.2	21
24	Dual Circularly Polarized Broadside Beam Metasurface Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 2944-2953.	5.1	64
25	A quasi-spiral antenna for THz â€" IR dual-band sensors. , 2016, , .		0
26	Dual-pol metasurface antenna supporting transverse magnetic and electric surface waves. , 2016, , .		0
27	An inline microstrip-to-waveguide transition operating in the full W-Band based on a Chebyshev multisection transformer. , 2016, , .		10
28	Terahertz time domain spectroscopy allows contactless monitoring of grapevine water status. Frontiers in Plant Science, 2015, 6, 404.	3.6	25
29	An Inline Microstrip-to-Waveguide Transition Operating in the Full W-Band. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 734-744.	2.2	16
30	Fourth-Harmonic Schottky Diode Mixer Development at Sub-Millimeter Frequencies. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 518-520.	3.1	20
31	Superbackscattering nanoparticle architectures. , 2015, , .		0
32	Superbackscattering nanoparticle dimers. Nanotechnology, 2015, 26, 274001.	2.6	6
33	Superbackscattering from single dielectric particles. Journal of Optics (United Kingdom), 2015, 17, 072001.	2.2	24
34	USE of COC substrates for millimeter-wave devices. Microwave and Optical Technology Letters, 2015, 57, 371-377.	1.4	19
35	Design Guidelines of Horn Antennas That Combine Horizontal and Vertical Corrugations for Satellite Communications. IEEE Transactions on Antennas and Propagation, 2015, 63, 1314-1323.	5.1	37
36	Superbackscattering Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2015, 63, 2011-2021.	5.1	12

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37	ABA-regulation of root hydraulic conductivity and aquaporin gene- expression is crucial to the plant shoot rise caused by rhizosphere humic acids. Plant Physiology, 2015, 169, pp.00596.2015.	4.8	72
38	Experimental analysis of different measurement techniques for characterization of millimeterâ€wave mixers. Microwave and Optical Technology Letters, 2014, 56, 1441-1447.	1.4	11
39	Magnetic dipole super-resonances and their impact on mechanical forces at optical frequencies. Optics Express, 2014, 22, 8640.	3.4	15
40	Use of low loss substrate for developing sub-millimeter-wave mixers. , 2014, , .		3
41	Full W-Band microstrip-to-waveguide inline transition. , 2014, , .		7
42	Optimization of a Pin Surface as a Solution to Suppress Cavity Modes in a Packaged W-Band Microstrip Receiver. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 975-982.	2.5	7
43	Mmâ€wave imaging results based on a frequency scanning delay line waveguide horn antenna array. Microwave and Optical Technology Letters, 2014, 56, 2851-2860.	1.4	2
44	Upper Bounds on Scattering Processes and Metamaterial-Inspired Structures That Reach Them. IEEE Transactions on Antennas and Propagation, 2014, 62, 6344-6353.	5.1	20
45	TeraSCREEN: multi-frequency multi-mode Terahertz screening for border checks. Proceedings of SPIE, 2014, , .	0.8	19
46	Dual band sub-mm and IR detector based on square Fresnel zone plate lens. , 2014, , .		2
47	Huygens source nanoparticle lasers and their applications. , 2014, , .		0
48	Optical trapping in the presence of higher order mode sources and interactions. Journal of Optics (United Kingdom), 2014, 16, 114024.	2.2	3
49	Analysis of square Fresnel Zone Plate Lens for dual band detectors. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 525-535.	2.2	7
50	Induction Theorem Analysis of Resonant Nanoparticles: Design of a Huygens Source Nanoparticle Laser. Physical Review Applied, 2014, 1, .	3.8	42
51	Least Upper Bounds of the Powers Extracted and Scattered by Bi-anisotropic Particles. IEEE Transactions on Antennas and Propagation, 2014, 62, 4726-4735.	5.1	18
52	Properties of the Input Impedance of a THz Dipole Antenna on Top of a Woodpile Structure. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 731-739.	3.1	0
53	Subharmonic Mixer Based on EBG Technology. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 838-845.	3.1	4
54	Design and Test of a 0.5 THz Dipole Antenna With Integrated Schottky Diode Detector on a High Dielectric Constant Ceramic Electromagnetic Bandgap Substrate. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 584-593.	3.1	12

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55	Dual band EBG superstrate antenna for TT&C satellite applications in C-band. , 2013, , .		1
56	High dielectric constant EBG technology to avoid gratings lobes and scan blindness in array configurations. Journal of Electromagnetic Waves and Applications, 2013, 27, 2341-2354.	1.6	1
57	Experimental Explosive Characterization for Counterterrorist Investigation. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 468-479.	2.2	7
58	Broadband Radar Cross-Section Reduction Using AMC Technology. IEEE Transactions on Antennas and Propagation, 2013, 61, 6136-6143.	5.1	319
59	EBG superstrate based antennas for space applications. , 2013, , .		0
60	Compact and weightlight electromagnetic band gap superestrate antenna for Câ€band TT&C applications. Microwave and Optical Technology Letters, 2013, 55, 1457-1461.	1.4	0
61	Millimeter-wave mixer measurement: Comparison of different methods. , 2013, , .		1
62	A Multipolar Analysis of Near-Field Absorption and Scattering Processes. IEEE Transactions on Antennas and Propagation, 2013, 61, 5184-5199.	5.1	18
63	Electromagnetic force density in electrically and magnetically polarizable media. Physical Review A, 2013, 88, .	2.5	20
64	Near-field electromagnetic trapping through curl-spin forces. Physical Review A, 2013, 87, .	2.5	19
65	CIRCUIT AND MULTIPOLAR APPROACHES TO INVESTIGATE THE BALANCE OF POWERS IN 2D SCATTERING PROBLEMS. Progress in Electromagnetics Research, 2013, 142, 799-823.	4.4	2
66	Experimental study of the antenna influence in RTLS based-on RFID. , 2012, , .		2
67	Theory of ferromagnetic wires resonating in the proximity of a ground plane: Application to artificial impedance surfaces. Journal of Applied Physics, 2012, 111, 064911.	2.5	0
68	Multifrequency Radiator With Spatial Diversity Based on Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 519-522.	4.0	7
69	Design and characterization of W-band components in planar technology. , 2012, , .		2
70	All-dielectric EBG horn antennas for submillimeter wavelength range. , 2012, , .		0
71	Characterization of ferromagnetic wires for self-sensing materials. , 2012, , .		0
72	Reconfigurable Artificial Surfaces Based on Impedance Loaded Wires Close to a Ground Plane. IEEE Transactions on Antennas and Propagation, 2012, 60, 1921-1930.	5.1	11

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73	Fe-Rich Ferromagnetic Wires for Mechanical-Stress Self-Sensing Materials. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2752-2759.	4.6	2
74	Design of an EBG Compact Low-Mass Antenna in C-band with dual circular polarisation. , 2012, , .		1
75	Artificial impedance surfaces based on ferromagnetic wires. , 2012, , .		0
76	Multi-Functional Antennas Based on Meta-Surfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 3020-3024.	5.1	16
77	Evanescently Fed Electromagnetic Band-Gap Horn Antennas and Arrays. IEEE Transactions on Antennas and Propagation, 2012, 60, 2635-2644.	5.1	7
78	A Comprehensive Analysis of the Absorption Spectrum of Conducting Ferromagnetic Wires. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2055-2065.	4.6	5
79	Low Sidelobe Corrugated Horn Antennas for Radio Telescopes to Maximize ${m G/T}_{m s}$. IEEE Transactions on Antennas and Propagation, 2011, 59, 1886-1893.	5.1	21
80	On the effective permittivity of arrays of ferromagnetic wires. Journal of Applied Physics, 2011, 110, 104902.	2.5	12
81	SURFACE WAVES OF FINITE SIZE ELECTROMAGNETIC BAND GAP WOODPILE STRUCTURES. Progress in Electromagnetics Research B, 2011, 28, 19-34.	1.0	17
82	SYMMETRICAL PYRAMIDAL HORN ANTENNAS BASED ON EBG STRUCTURES. Progress in Electromagnetics Research B, 2011, 29, 1-22.	1.0	9
83	Electromagnetic response and homogenization of grids of ferromagnetic microwires. Journal of Applied Physics, 2011, 110, .	2.5	31
84	Theoretical Modeling and Experimental Verification of the Scattering From a Ferromagnetic Microwire. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 517-526.	4.6	20
85	Active THz imaging system to measure water content evolution in leaves. , 2011, , .		3
86	Explosives characterization in terahertz range. Proceedings of SPIE, 2011, , .	0.8	2
87	All-dielectric woodpile horn antennas. , 2011, , .		0
88	Design and characterisation of a high efficiency ceramic EBG patch antenna. IET Microwaves, Antennas and Propagation, 2010, 4, 1056.	1.4	7
89	Decoupling of Multifrequency Dipole Antenna Arrays for Microwave Imaging Applications. International Journal of Antennas and Propagation, 2010, 2010, 1-8.	1.2	14
90	Active THz inspection of water content in plants. Proceedings of SPIE, 2010, , .	0.8	2

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91	Electromagnetic-Bandgap Waveguide for the Millimeter Range. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1734-1741.	4.6	27
92	Metamaterial-based cloaking with sparse distribution of spiral resonators. , 2010, , .		2
93	Frequency selective transmission scheme for ebg horn antennas. , 2010, , .		0
94	Magnetotunable left-handed FeSiB ferromagnetic microwires. Optics Letters, 2010, 35, 2161.	3.3	22
95	Highly-directive aperture-coupled microstrip patch antenna based on planar meta-surface. , 2010, , .		0
96	Design of millimeter wave heterodyne receivers based on metamaterial technology. , 2010, , .		0
97	Design of a dual-frequency highly-directive planar antenna with meta-surfaces. , 2010, , .		0
98	Multiband EBG navigation antenna. , 2009, , .		4
99	Mm-wave stand-off screening and detection. , 2009, , .		1
100	Resonance frequencies of cavities in three-dimensional electromagnetic band gap structures. Journal of Applied Physics, 2009, 106, 014901.	2.5	10
101	Coupling Reduction Between Dipole Antenna Elements by Using a Planar Meta-Surface. IEEE Transactions on Antennas and Propagation, 2009, 57, 383-394.	5.1	53
102	EBG Superstrate Array Configuration for the WAAS Space Segment. IEEE Transactions on Antennas and Propagation, 2009, 57, 81-93.	5.1	32
103	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. Electromagnetics, 2008, 28, 476-493.	0.7	33
104	Sub-Millimeter-Wave Imaging Array at 500 GHz Based on 3-D Electromagnetic-Bandgap Material. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2556-2565.	4.6	16
105	Resonant Meta-Surface Superstrate for Single and Multifrequency Dipole Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2008, 56, 951-960.	5.1	40
106	Multispectral mm-wave imaging: materials and images. , 2008, , .		10
107	Electromagnetic cloaking with canonical spiral inclusions. New Journal of Physics, 2008, 10, 115037.	2.9	27
108	Near-field measurement of a planar meta-surface illuminated by dipole antennas. , 2008, , .		2

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109	Enhanced directed emission from metamaterial based radiation source. Applied Physics Letters, 2008, 92, 204103.	3.3	10
110	Millimetre-wave material properties. , 2007, , .		2
111	Low Profile Multi-Frequency Dipole Antenna Array Based on Planar Meta-Surfaces. , 2007, , .		1
112	Design and characterisation of an EBG imaging array at sub-millimetre wave frequencies. , 2007, , .		1
113	Power transmission enhancement by means of planar meta-surfaces. Journal of Optics, 2007, 9, S308-S314.	1.5	12
114	Thin AMC Structure for Radar Cross-Section Reduction. IEEE Transactions on Antennas and Propagation, 2007, 55, 3630-3638.	5.1	548
115	Modifications of the woodpile structure for the improvement of its performance as substrate for dipole antennas. IET Microwaves, Antennas and Propagation, 2007, 1, 226.	1.4	6
116	Highly efficient dipole antenna with planar meta-surface. Electronics Letters, 2007, 43, 850.	1.0	20
117	A Metamaterial T-Junction Power Divider. IEEE Microwave and Wireless Components Letters, 2007, 17, 172-174.	3.2	27
118	Modeling and Analysis of Composite Antenna Superstrates Consisting on Grids of Loaded Wires. IEEE Transactions on Antennas and Propagation, 2007, 55, 2692-2700.	5.1	24
119	Modelling and Analysis of Composite Antenna Superstrates Based on Grids of Dipoles and Wires. , 2007, , .		2
120	Reflection Properties of a planar structure combining AMC and PEC cells. , 2007, , .		2
121	On the definition of effective permittivity and permeability for thin composite layers. Journal of Applied Physics, 2007, 101, 114910.	2.5	31
122	A 250 GHz Subharmonic Mixer Design Using EBG Technology. IEEE Transactions on Antennas and Propagation, 2007, 55, 2974-2982.	5.1	14
123	Combination of AMC and PEC cells for RCS applications. , 2007, , .		4
124	Development of micro-structured metamaterials for innovative antenna layouts. , 2007, , .		0
125	Mesoscopic effective material parameters for thin layers modeled as single and double grids of interacting loaded wires. Metamaterials, 2007, 1, 89-105.	2.2	19
126	Manufacturing Tolerance Analysis, Fabrication, and Characterization of 3-D Submillimeter-Wave Electromagnetic-Bandgap Crystals. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 672-681.	4.6	27

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127	Experimental verification of the reduction of coupling between dipole antennas by using a woodpile substrate. IEEE Transactions on Antennas and Propagation, 2006, 54, 2105-2112.	5.1	13
128	METAMORPHOSE European Doctoral Programs on Metamaterials state-of-the-art [Report of the Transnational Committee]. IEEE Antennas and Propagation Magazine, 2006, 48, 219-223.	1.4	1
129	Innovative High-Gain Corrugated Horn Antenna Combining Horizontal and Vertical Corrugations. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 380-383.	4.0	26
130	Metamaterials technology for sub-mm wave imaging. , 2006, , .		0
131	Electromagnetic crystal technology for waveguides and bends at microwave frequencies. Electronics Letters, 2005, 41, 421.	1.0	6
132	Transmission enhancement between rectangular waveguides by means of left-handed media. Electronics Letters, 2005, 41, 725.	1.0	5
133	High-K EBG substrates for phase-array patch-antenna configurations. Microwave and Optical Technology Letters, 2004, 43, 527-532.	1.4	5
134	Measurement of the dielectric constant and loss tangent of high dielectric-constant materials at terahertz frequencies. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1062-1066.	4.6	171
135	Electromagnetic bandgap antennas and components for microwave and (sub)millimeter wave applications. IEEE Transactions on Antennas and Propagation, 2003, 51, 2667-2677.	5.1	184
136	Reply to "Comments on 'Choked Gaussian antenna: extremely low sidelobe compact antenna design'". IEEE Antennas and Wireless Propagation Letters, 2003, 2, 364-366.	4.0	5
137	Simulated and Measured Performance of a Patch Antenna on a 2-Dimensional Photonic Crystals Substrate. Progress in Electromagnetics Research, 2003, 41, 257-269.	4.4	6
138	Improved radiation pattern performance of Gaussian profiled horn antennas. IEEE Transactions on Antennas and Propagation, 2002, 50, 1505-1513.	5.1	28
139	Choked Gaussian antenna: extremely low sidelobe compact antenna design. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 200-202.	4.0	33
140	Ultra-wide band corrugated gaussian profiled horn antenna design. IEEE Microwave and Wireless Components Letters, 2002, 12, 20-21.	3.2	27
141	A low-cost fabrication technique for symmetrical and asymmetrical layer-by-layer photonic crystals at submillimeter-wave frequencies. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2384-2392.	4.6	35
142	Electromagnetic crystals in microstrip technology. Optical and Quantum Electronics, 2002, 34, 279-295.	3.3	19
143	Design of electromagnetic crystal filters for rectangular waveguides. Microwave and Optical Technology Letters, 2001, 30, 81-84.	1.4	6
144	Radiation properties of terahertz dipole antenna mounted on photonic crystal. Electronics Letters, 2001, 37, 613.	1.0	44

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145	Improved patch antenna performance by using photonic bandgap substrates. Microwave and Optical Technology Letters, 2000, 24, 213-215.	1.4	37
146	Arrangements of via holes in microstrip lines as metallodielectric periodic structures. Microwave and Optical Technology Letters, 2000, 26, 372-379.	1.4	0
147	Quasioptical Transmission Lines for ECRH at TJ-II Stellarator. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 1945-1957.	0.6	13
148	Applications of Electromagnetic Crystals in Microstrip Technology. , 2000, , .		1
149	Gaussian Profiled Horn Antenna for HISPASAT 1C Satellite. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 1809-1815.	0.6	7
150	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 1757-1767.	0.6	5
151	Enhanced patch-antenna performance by suppressing surface waves using photonic-bandgap substrates. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 2131-2138.	4.6	399
152	Improved 2-D photonic bandgap structures in microstrip technology. , 1999, 22, 207-211.		20
153	The effect of dielectric permittivity on the properties of photonic bandgap devices. Microwave and Optical Technology Letters, 1999, 23, 92-95.	1.4	17
154	Optimal horn antenna design to excite high-order Gaussian beam modes from TE/sub 0m/ smooth circular waveguide modes. IEEE Transactions on Antennas and Propagation, 1999, 47, 1440-1448.	5.1	17
155	Beam waveguide for ECRH at TJ-II. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 1161-1168.	0.6	5
156	Radiation performances of a dipole array configuration inserted in a left-handed media. , 0, , .		5
157	Enhancement of the Power Radiated by a Dipole Antenna at Boresight by Means of a Left Handed Superstrate. , 0, , .		2