

George Goussetis

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142
papers

2,406
citations

23
h-index

44
g-index

167
ext. papers

3,143
ext. citations

3.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
142	Simple and Accurate Analytical Model of Planar Grids and High-Impedance Surfaces Comprising Metal Strips or Patches. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1624-1632	4.9	489
141	Satellite Communications in the New Space Era: A Survey and Future Challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 23, 70-109	37.1	149
140	Anisotropic Impedance Surfaces for Linear to Circular Polarization Conversion. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 212-219	4.9	106
139	Planar Leaky-Wave Antenna With Flexible Control of the Complex Propagation Constant. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 1625-1630	4.9	88
138	Design Method for Circularly Polarized Fabry-Berot Cavity Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 19-26	4.9	81
137	. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3466-3474	4.9	77
136	A uW Backscatter-Morse-Leaf Sensor for Low-Power Agricultural Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2018 , 18, 7889-7898	4	49
135	Bandwidth Enhancement of 2-D Leaky-Wave Antennas With Double-Layer Periodic Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 586-593	4.9	48
134	Design of a Salisbury screen absorber using frequency selective surfaces to improve bandwidth and angular stability performance. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 149	1.6	44
133	Frequency Steerable Two Dimensional Focusing Using Rectilinear Leaky-Wave Lenses. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 407-415	4.9	42
132	Support Vector Regression to Accelerate Design and Crosspolar Optimization of Shaped-Beam Reflectarray Antennas for Space Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 1659-1668	4.9	38
131	Ambient Backscatterers Using FM Broadcasting for Low Cost and Low Power Wireless Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 5251-5262	4.1	35
130	Enhancing Frequency-Scanning Response of Leaky-Wave Antennas Using High-Impedance Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 7-10	3.8	35
129	Low-profile resonant cavity antenna with artificial magnetic conductor ground plane. <i>Electronics Letters</i> , 2004 , 40, 405	1.1	35
128	1D-Leaky Wave Antenna Employing Parallel-Plate Waveguide Loaded With PRS and HIS. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 3687-3694	4.9	34
127	Control of Leaky-Mode Propagation and Radiation Properties in Hybrid Dielectric-Waveguide Printed-Circuit Technology: Experimental Results. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 3383-3390	4.9	34
126	. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 1949-1956	4.9	32

125	Effects of hyperthermia as a mitigation strategy in DNA damage-based cancer therapies. <i>Seminars in Cancer Biology</i> , 2016 , 37-38, 96-105	12.7	29
124	Electrical characterisation of liquid crystals at millimetre wavelengths using frequency selective surfaces. <i>Electronics Letters</i> , 2012 , 48, 611	1.1	29
123	Millimeter-Wave Printed Circuit Board Characterization Using Substrate Integrated Waveguide Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 3300-3308	4.1	28
122	Predicting Wireless MmWave Massive MIMO Channel Characteristics Using Machine Learning Algorithms. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-12	1.9	27
121	Sub-Wavelength Profile 2-D Leaky-Wave Antennas With Two Periodic Layers. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 416-424	4.9	26
120	. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5983-5991	4.9	23
119	Efficient Synthesis of 1-D FabryPerot Antennas With Low Sidelobe Levels. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 869-872	3.8	22
118	3D Non-Stationary Wideband Tunnel Channel Models for 5G High-Speed Train Wireless Communications. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 259-272	6.1	22
117	Low-Profile Compact Dual-Band Unit Cell for Polarizing Surfaces Operating in Orthogonal Polarizations. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 1472-1477	4.9	21
116	Efficient modeling of novel uniplanar left-handed metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1462-1468	4.1	21
115	Periodic FDTD Analysis of a 2-D Leaky-Wave Planar Antenna Based on Dipole Frequency Selective Surfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2006-2012	4.9	19
114	Efficient Analysis, Design, and Filter Applications of EBG Waveguide With Periodic Resonant Loads. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 3885-3892	4.1	19
113	Novel periodically loaded E-plane filters. <i>IEEE Microwave and Wireless Components Letters</i> , 2003 , 13, 193-195	4.1	17
112	Broadband graded index Gutman lens with a wide field of view utilizing artificial dielectrics: a design methodology. <i>Optics Express</i> , 2020 , 28, 14648-14661	3.3	17
111	Four-PAM Modulation of Ambient FM Backscattering for Spectrally Efficient Low-Power Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 5909-5921	4.1	17
110	Efficient Rectifier for Wireless Power Transmission Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 1921-1932	4.1	16
109	Efficient Synthesis of Low-Profile Angularly-Stable and Polarization-Independent Frequency-Selective Absorbers With a Reflection Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 621-629	4.9	16
108	Circular Polarization Frequency Selective Surface Operating in Ku and Ka Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 5194-5197	4.9	15

107	W-Band Planar Wide-Angle Scanning Antenna Architecture. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013 , 34, 127-139	2.2	14
106	Coupled Split-Ring Resonator Circular Polarization Selective Surface. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 4664-4675	4.9	14
105	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 1174-1178	4.1	14
104	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2743-2752	4.9	14
103	General Framework for the Efficient Optimization of Reflectarray Antennas for Contoured Beam Space Applications. <i>IEEE Access</i> , 2018 , 6, 72295-72310	3.5	14
102	Multifunctional Angular Bandpass Filter SIW Leaky-Wave Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 936-939	3.8	13
101	A Modified Pole-Zero Technique for the Synthesis of Waveguide Leaky-Wave Antennas Loaded With Dipole-Based FSS. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 1971-1979	4.9	13
100	Prediction of Channel Excess Attenuation for Satellite Communication Systems at Q-Band Using Artificial Neural Network. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 2235-2239	3.8	12
99	A Rectifier Circuit Insensitive to the Angle of Incidence of Incoming Waves Based on a Wilkinson Power Combiner. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 3210-3218	4.1	12
98	Channel Modeling for Satellite Communication Channels at Q-Band in High Latitude. <i>IEEE Access</i> , 2019 , 7, 137691-137703	3.5	12
97	Helical Resonator Filters With Improved Power Handling Capabilities for Space Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 598-600	2.6	12
96	Perturbed frequency selective surfaces for multiband high impedance surfaces. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 1105	1.6	12
95	Uniplanar left-handed artificial metamaterials. <i>Journal of Optics</i> , 2005 , 7, S44-S50		12
94	IQ Impedance Modulator Front-End for Low-Power LoRa Backscattering Devices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 5307-5314	4.1	11
93	. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2205-2216	4.9	11
92	Experimental realisation of electromagnetic metamaterials. <i>Journal of Modern Optics</i> , 2010 , 57, 1-16	1.1	11
91	Resonant Effects and Near-Field Enhancement in Perturbed Arrays of Metal Dipoles. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2523-2530	4.9	11
90	Retrodirective antenna array for circularly polarized wireless power transmission 2017 ,		10

89	Wireless channel parameter estimation algorithms: Recent advances and future challenges. <i>China Communications</i> , 2018 , 15, 211-228	3	10
88	Wideband Shaped-Beam Reflectarray Design Using Support Vector Regression Analysis. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 2287-2291	3.8	10
87	Correction of Dielectric Losses in Practical Leaky-wave Antenna Designs. <i>Journal of Electromagnetic Waves and Applications</i> , 2007 , 21, 1025-1036	1.3	10
86	Contoured-Beam Dual-Band Dual-Linear Polarized Reflectarray Design Using a Multiobjective Multistage Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7682-7687	4.9	10
85	Adaptive Sensing Schedule for Dynamic Spectrum Sharing in Time-Varying Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 5520-5524	6.8	9
84	Dual-Band Bandpass Double Ground Plane Coaxial Resonators and Filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 3828-3835	4.1	9
83	Reconfigurable beam forming using phase-aligned Rotman lens. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 326	1.6	9
82	. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 134-142	4.9	9
81	Broadside radiation from radial arrays of substrate integrated leaky-wave antennas 2012 ,		9
80	Inline Interdigital Pseudo-Elliptic Helical Resonator Filters. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 400-402	2.6	9
79	Artificial Impedance Surfaces for Reduced Dispersion in Antenna Feeding Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 3629-3636	4.9	9
78	A Novel Atmosphere-Informed Data-Driven Predictive Channel Modeling for B5G/6G Satellite-Terrestrial Wireless Communication Systems at Q-Band. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14225-14237	6.8	9
77	Coupling Substrate-Integrated Waveguides to Increase the Gain Bandwidth of Leaky-Wave Antennas. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 3099-3109	4.1	8
76	Cross-Polarization Reduction of Linear-to-Circular Polarizing Reflective Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1527-1531	3.8	8
75	Low Noise Amplifier With Integrated Balanced Antenna for 60 GHz Wireless Communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3407-3411	4.9	8
74	A Simple Technique for the Dispersion Analysis of Fabry-Perot Cavity Leaky-Wave Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 803-810	4.9	8
73	Subwavelength resolution for horizontal and vertical polarization by coupled arrays of oblate nanoellipsoids. <i>Optics Letters</i> , 2009 , 34, 2333-5	3	8
72	On the Use of the Angle of Incidence in Support Vector Regression Surrogate Models for Practical Reflectarray Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1787-1792	4.9	8

71	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1609-1620	4.1	7
70	An efficient rectifier for an RDA wireless power transmission system operating at 2.4 GHz 2017 ,		7
69	Optimization of an Open-Ended Microwave Oven for Microelectronics Packaging. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2635-2641	4.1	7
68	Advances in Wirelessly Powered Backscatter Communications: From Antenna/RF Circuitry Design to Printed Flexible Electronics. <i>Proceedings of the IEEE</i> , 2022 , 110, 171-192	14.3	7
67	A Compact 12-Way Slotted Waveguide Power Combiner for Ka-Band Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 135-137	2.6	6
66	Assessment of spatial and temporal properties of Ka/Q band earth-space radio channel across Europe using Alphasat Aldo Paraboni payload. <i>International Journal of Satellite Communications and Networking</i> , 2019 , 37, 477-501	1.7	6
65	Experimental Validation of All-Dielectric mm-Wave Polarization Conversion Based on Form Birefringence. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 759-761	2.6	6
64	Study of coupled split-ring resonator arrays for circular polarization selective surface 2015 ,		6
63	Encapsulation of Microelectronic Components Using Open-Ended Microwave Oven. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012 , 2, 799-806	1.7	6
62	Corrections to Simple and Accurate Analytical Model of Planar Grids and High-Impedance Surfaces Comprising Metal Strips or Patches [Jun 08 1624-1632]. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2162-2162	4.9	6
61	Open-ended microwave oven for flip-chip assembly. <i>IET Microwaves, Antennas and Propagation</i> , 2008 , 2, 53-58	1.6	6
60	Shaped Parallel-Plate Lens for Mechanical Wide-Angle Beam Steering. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	6
59	Spectrally Efficient 4-PAM Ambient FM Backscattering for Wireless Sensing and RFID Applications 2018 ,		6
58	Angularly Stable Linear-to-Circular Polarizing Reflectors for Multiple Beam Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4380-4389	4.9	6
57	Chirp Based Backscatter Modulation 2019 ,		5
56	Pencil beam radiation pattern from a single-layer substrate-integrated waveguide leaky-wave antenna with simple feeding. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 24-30	1.6	5
55	Simple control of the polarisation in uniform hybrid waveguide-planar leaky-wave antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2007 , 1, 911	1.6	5
54	Broadband Reflectarray With High Polarization Purity for 4K and 8K UHDTV DVB-S2. <i>IEEE Access</i> , 2020 , 8, 100712-100720	3.5	5

53	A Compact and Broadband Four-Way Dual Polarization Waveguide Power Divider for Antenna Arrays 2020 ,		5
52	Compact Leaky SIW Feeder Offering TEM Parallel Plate Waveguide Launching. <i>IEEE Access</i> , 2019 , 7, 13373-13382		5
51	Novel Data Pre-Distorter for APSK Signals in Solid-State Power Amplifiers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 4044-4054	3.9	4
50	Low Cost Ambient Backscatter for Agricultural Applications 2019 ,		4
49	Quality factor of E-plane periodically loaded waveguide resonators and filter applications. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 818	1.6	4
48	Higher order modes of the Ridged Coaxial Waveguide 2006 ,		4
47	Compact ridge waveguide filter with parallel and series-coupled resonators. <i>Microwave and Optical Technology Letters</i> , 2005 , 45, 22-23	1.2	4
46	Quad-Furcated Profiled Horn: The Next Generation Highly Efficient GEO Antenna in Additive Manufacturing. <i>IEEE Open Journal of Antennas and Propagation</i> , 2022 , 3, 69-82	1.9	4
45	Optimal Power Splitting of Wireless Information and Power Transmission using a Novel Dual-Channel Rectenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
44	Dual-Polarized Aperture-Coupled Patch Antennas With Application to Retrodirective and Monopulse Arrays. <i>IEEE Access</i> , 2020 , 8, 7549-7557	3.5	4
43	An active retrodirective antenna element for circularly polarized wireless power transmission 2016 ,		4
42	2019 ,		4
41	Physical Limitation of Range-Domain Secrecy Using Frequency Diverse Arrays. <i>IEEE Access</i> , 2020 , 8, 63303-63309		5
40	NFC Hybrid Harvester for Battery-free Agricultural Sensor Nodes 2019 ,		3
39	Conformal tapered microstrip leaky-wave antennas 2012 ,		3
38	Helical resonator with modulated radius for improved multipactor threshold: Numerical and experimental results 2016 ,		3
37	Transmission zero realization in E-plane filters by means of I/O resonator tapping 2016 ,		3
36	Validation of a Digital Noise Power Integration Technique for Radiometric Clear Sky Attenuation Estimation at Q-Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6743-6751	4.9	2

35	Perturbed frequency-selective surfaces fabricated on large thin polymer membranes for multiband infrared applications. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 3169		2
34	Flexible pattern synthesis with SIW LWAs 2012 ,		2
33	Novel and simple technique to control the polarization in stub-loaded leaky-wave antennas 2007 ,		2
32	Compact ridged-waveguide bandpass filters and diplexers. <i>Microwave and Optical Technology Letters</i> , 2004 , 41, 465-467	1.2	2
31	Upper and lower bounds of 180° unit element of a ridge waveguide: Calculations and measurements. <i>Microwave and Optical Technology Letters</i> , 2001 , 31, 260-261	1.2	2
30	Enabling Multicarrier Backscattering Communications 2020 ,		2
29	Adaptive Mode Selection and Power Allocation for D2D Underlay Cellular Networks with Dynamic Fading Channel 2020 ,		2
28	Harmonic Suppression in Frequency Shifted Backscatter Communications. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 990-999	6.7	2
27	A Methodology for Remote Microwave Sterilization Applicable to the Coronavirus and Other Pathogens Using Retrodirective Antenna Arrays.. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2022 , 6, 41-51	2.8	2
26	Ultra-fast reconfigurable antennas with phase change materials 2017 ,		1
25	2020 ,		1
24	Integration of microfluidic channels with frequency selective surfaces for sensing and tuning 2014 ,		1
23	2015 ,		1
22	Small aperture evanescent-mode waveguide antenna matched using distributed coupled resonators. <i>Electronics Letters</i> , 2013 , 49, 580-582	1.1	1
21	Microstrip half-mode leaky-wave antenna operating at 94 GHz 2011 ,		1
20	Mm-wave low-profile reflection polarizer 2011 ,		1
19	Leaky-mode dispersion analysis in parallel-plate waveguides loaded with FSS and AMC with application to 1D leaky-wave antennas. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		1
18	Simple and accurate transverse equivalent network to model radiation from hybrid leaky-wave antennas with control of the polarization 2008 ,		1

17	Novel periodically loaded multilayer resonators. <i>Microwave and Optical Technology Letters</i> , 2002 , 35, 374-375	1.2	1
16	Novel periodically loaded ridged waveguide resonators. <i>Microwave and Optical Technology Letters</i> , 2003 , 37, 266-268	1.2	1
15	An Atmosphere Data Driven Q Band Satellite Channel Model with Feature Selection. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
14	Signal Modulation Schemes in Backscatter Communications 2021 , 19-40		1
13	A system approach to enable digital beamforming with direct radiating arrays: The joint use of precoding and sparse arrays. <i>International Journal of Satellite Communications and Networking</i> , 2021 , 39, 645	1.7	1
12	Antenna Array Driven by Non-Isolated Power Amplifiers for MIMO Applications 2019 ,		1
11	Compact Leaky-Wave SIW Antenna with Broadside Radiation and Dual-Band Operation for CubeSats. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 1-1	3.8	1
10	Highly Efficient Broadband Pyramidal Horn Antenna with Integrated H-Plane Power Division. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
9	FMCW Radar With Enhanced Resolution and Processing Time by Beam Switching. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021 , 2, 882-896	1.9	1
8	A 2.4 GHz Rectifier Insensitive to the Angle of Incidence of Incoming Waves 2018 ,		1
7	Review of antenna technologies for very high frequency Data Exchange Systems. <i>International Journal of Satellite Communications and Networking</i> ,	1.7	1
6	Joint Digital Analogue DVB-S2(X) Link Optimization in Non-linear Channel. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
5	Ambient FM Backscattering Low-Cost and Low-Power Wireless RFID Applications 2020 , 117-143		
4	Wireless-powered CR-IoT with ambient backscattering: a new transmission mode. <i>IET Communications</i> , 2020 , 14, 4069-4074	1.3	
3	Mm-Wave Broadband Wireless Systems and Enabling MMIC Technologies 295-324		
2	Helical resonator filters with improved multipactor performance exploiting rigorous modelling and the large gap approach. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 1756-1759	1.6	
1	Asymmetrical Impedance Inverter for Quasi-Optical Bandpass Filters With Transmission Lines of Fixed Length. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 1-9	4.1	