

Xavier Begaud

List of Publications by Year in descending order

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72
papers

415
citations

933447

10
h-index

888059

17
g-index

80
all docs

80
docs citations

80
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	Circular High-Impedance Surfaces Characterization. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 260-263.	4.0	40
2	Ultra-Wideband and Wide-Angle Microwave Metamaterial Absorber. Materials, 2018, 11, 2045.	2.9	33
3	A compact ultrawideband triangular patch antenna. Microwave and Optical Technology Letters, 2004, 40, 287-289.	1.4	22
4	Metamaterial inspired fabry-pérot antenna with cascaded frequency selective surfaces. Microwave and Optical Technology Letters, 2013, 55, 981-985.	1.4	22
5	Broadband Archimedean spiral antenna above a loaded electromagnetic band gap substrate. IET Microwaves, Antennas and Propagation, 2007, 1, 212.	1.4	21
6	Enhanced Broadside Gain of an Ultrawideband Diamond Dipole Antenna Using a Hybrid Reflector. IEEE Transactions on Antennas and Propagation, 2016, 64, 3269-3274.	5.1	17
7	RCS Reduction With a Dual Polarized Self-Complementary Connected Array Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 567-575.	5.1	17
8	Design and measurement of a thin and light absorbing material for space applications. Applied Physics A: Materials Science and Processing, 2014, 115, 541-545.	2.3	15
9	Characterization of a loaded high impedance surface. International Journal of Microwave and Wireless Technologies, 2009, 1, 483-487.	1.9	14
10	Analytical methods for AMC and EBG characterizations. Applied Physics A: Materials Science and Processing, 2011, 103, 805-808.	2.3	12
11	Calculable Dipole Antenna for EMC Measurements with Low-Loss Wide-Band Balun from 30 MHz to 2 GHz. Electromagnetics, 2005, 25, 187-202.	0.7	10
12	Characterization of the UWB on-body propagation channel. , 2006, , .		10
13	Resistive high-impedance surfaces (RHIS) as absorbers for oblique incidence electromagnetic waves. Applied Physics A: Materials Science and Processing, 2014, 117, 693-697.	2.3	10
14	UWB Directive Triangular Patch Antenna. International Journal of Antennas and Propagation, 2008, 2008, 1-7.	1.2	8
15	Axial ratio improvement of an Archimedean spiral antenna over a radial AMC reflector. Applied Physics A: Materials Science and Processing, 2012, 109, 1081-1086.	2.3	8
16	Maximal Bandwidth of an Archimedean Spiral Antenna Above a Reflector. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 333-336.	4.0	8
17	Low-profile metamaterial-based L-band antennas. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	8
18	A directive ultra wideband sinuous slot antenna. , 2006, , .		7

#	ARTICLE	IF	CITATIONS
19	Investigation and Modeling of the UWB On-Body Propagation Channel. Wireless Personal Communications, 2010, 52, 17-28.	2.7	7
20	Wideband QAMC reflector's antenna for low profile applications. Applied Physics A: Materials Science and Processing, 2011, 103, 809-813.	2.3	7
21	Dual-band Artificial Magnetic Conductor. Applied Physics A: Materials Science and Processing, 2012, 109, 1075-1080.	2.3	7
22	Measurement of direction-of-arrival of coherent signals using five-port reflectometers and quasi-Yagi antennas. IEEE Microwave and Wireless Components Letters, 2005, 15, 558-560.	3.2	6
23	Design of a broadband Archimedean spiral antenna above a thin modified Electromagnetic Band Gap substrate. , 2006, , .		6
24	Wideband integrated feeding system for a dual polarisation sinuous antenna. IET Microwaves, Antennas and Propagation, 2010, 4, 1704.	1.4	6
25	Analytical model of a self-complementary connected antenna array on high impedance surface. Applied Physics A: Materials Science and Processing, 2014, 115, 517-522.	2.3	6
26	TWEETHER future generation W-band backhaul and access network technology. , 2017, , .		6
27	The bow-tie antenna: Performance limitations and improvements. IET Microwaves, Antennas and Propagation, 2022, 16, 283-294.	1.4	5
28	Ultra wideband wide slot antenna with band-rejection characteristics. , 2006, , .		4
29	Wideband reflector for Archimedean spiral antenna. , 2012, , .		4
30	TWEETHER project for W-band wireless networks. , 2016, , .		4
31	Oblique Wide-Angle Multi-Sector Metamaterial Absorber for Space Applications. Applied Sciences (Switzerland), 2019, 9, 3425.	2.5	4
32	A simple closed-form formula for the mutual impedance of dipoles. Microwave and Optical Technology Letters, 2002, 34, 371-374.	1.4	3
33	Analytical study of printed dipoles with closed-form impedance formulas. Microwave and Optical Technology Letters, 2005, 45, 345-347.	1.4	3
34	Performance evaluation of a 3D ray tracing model in urban environment. , 2010, , .		3
35	Compact Dual-Band Dual-Polarized Antenna for MIMO LTE Applications. International Journal of Antennas and Propagation, 2012, 2012, 1-10.	1.2	3
36	Compact wideband harmonic suppressed antenna using non-uniform cascaded defected ground structure. Microwave and Optical Technology Letters, 2013, 55, 829-835.	1.4	3

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37	Compact wideband antenna above a wideband non-uniform artificial magnetic conductor. Applied Physics A: Materials Science and Processing, 2014, 117, 705-711.	2.3	3
38	A dielectric-only superstrate inspired from transformation optics for complete reorientation of electromagnetic waves in azimuthal plane. EPJ Applied Metamaterials, 2016, 3, 5.	1.5	3
39	Active phased antenna arrays calibration method including edge effects and mutual coupling. , 2017, , .		3
40	Efficient prism modeling for arbitrary-shape antennas printed on finite-size dielectric substrate in EFIE analysis. Microwave and Optical Technology Letters, 1998, 17, 370-375.	1.4	2
41	Joint TOA/DOA Measurements for Spatio-Temporal Characteristics of 2.4 GHz Indoor Propagation Channel. , 0, , .		2
42	Wideband integrated CPSâ€fed dual polarized quasi bowâ€tie antenna. Microwave and Optical Technology Letters, 2009, 51, 2130-2136.	1.4	2
43	Analytical approach for CRLH-based antennas design. Applied Physics A: Materials Science and Processing, 2012, 109, 1095-1101.	2.3	2
44	Wideband stepped reflector for Archimedean spiral antenna. , 2012, , .		2
45	Antipodal radiation pattern of a patch antenna combined with superstrate using transformation electromagnetics. Applied Physics A: Materials Science and Processing, 2014, 117, 699-703.	2.3	2
46	Self-complementary antenna array with low signature. , 2014, , .		2
47	Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector. AIP Conference Proceedings, 2016, , .	0.4	2
48	Mobile phone model with metamaterials to reduce the exposure. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	2
49	Low profile superstrate using transformation optics for semicircular radiation pattern of antenna. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	2
50	Analysis and optimization of a wideband metamaterial absorber made of composite materials. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	2
51	A practical DIDO communication platform. , 2006, , .		1
52	E-Field Measurement, Accuracy and Uncertainties. , 2007, , .		1
53	Wideband low profile antennas and metamaterials. , 2011, , .		1
54	Overview of UWB Antennas. , 2013, , 163-212.		1

#	ARTICLE	IF	CITATIONS
55	All standard materials flat reflector made by transformation electromagnetics. International Journal of Microwave and Wireless Technologies, 2014, 6, 201-206.	1.9	1
56	A Compact Wideband Dual-Polarized Antenna with Harmonic Suppression Using Nonuniform Defected Ground Structure. International Journal of Antennas and Propagation, 2015, 2015, 1-7.	1.2	1
57	Monopole antenna with metamaterials to reduce the exposure. Applied Physics A: Materials Science and Processing, 2015, 120, 917-925.	2.3	1
58	A compact dual-band dual-port diversity antenna for LTE. Advanced Electromagnetics, 2012, 1, 52.	1.0	1
59	Design methodology to enhance high impedance surfaces performances. Advanced Electromagnetics, 2014, 3, 8.	1.0	1
60	Mutual coupling analysis between two broadband dual polarized plate antennas. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 928-941.	2.5	0
61	Global analysis and realization of a wideband array (250 500 MHz) for RCS measurements in an anechoic chamber. Microwave and Optical Technology Letters, 2002, 34, 68-70.	1.4	0
62	Elevation/Azimuth Propagation Angle Measurements Using Five-Port Wave Correlators. , 2006, , .		0
63	Baseband to baseband calibration of a MIMO wireless system. , 2007, , .		0
64	Simplified propagation channel characterization considering the disturbance of antennas in the case of a multipath cluster. Microwave and Optical Technology Letters, 2008, 50, 2604-2608.	1.4	0
65	Feasibility of a Wideband Calculable Standard Antenna for EMC Measurements. , 2008, , .		0
66	Wideband Demodulator for UWB Channel Sounding Application. , 2008, , .		0
67	Wideband antenna with wideband harmonic suppression using non-uniform defected ground structure. , 2012, , .		0
68	Artificial Impedance Surface for widening the bandwidth of an antenna. , 2012, , .		0
69	Dipole model of rectangular patch antenna, application to self, and mutual impedance analysis. Microwave and Optical Technology Letters, 2012, 54, 1017-1019.	1.4	0
70	Radiation Characteristics of Antennas. , 2013, , 33-59.		0
71	IJMWTS Special Issue on the 2013 National Microwave Days in France. International Journal of Microwave and Wireless Technologies, 2014, 6, 1-2.	1.9	0
72	Realization and measurement of a wideband metamaterial absorber composed with structural composite materials. , 2022, , .		0