

Xavier Begaud

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

415
citations

1051969

10
h-index

993246

17
g-index

80
all docs

80
docs citations

80
times ranked

433
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The bow-tie antenna: Performance limitations and improvements. IET Microwaves, Antennas and Propagation, 2022, 16, 283-294. | 0.7 | 5 |
| 2 | Realization and measurement of a wideband metamaterial absorber composed with structural composite materials. , 2022, , . | | 0 |
| 3 | Oblique Wide-Angle Multi-Sector Metamaterial Absorber for Space Applications. Applied Sciences (Switzerland), 2019, 9, 3425. | 1.3 | 4 |
| 4 | Analysis and optimization of a wideband metamaterial absorber made of composite materials. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 1.1 | 2 |
| 5 | Ultra-Wideband and Wide-Angle Microwave Metamaterial Absorber. Materials, 2018, 11, 2045. | 1.3 | 33 |
| 6 | Low profile superstrate using transformation optics for semicircular radiation pattern of antenna. Applied Physics A: Materials Science and Processing, 2017, 123, 1. | 1.1 | 2 |
| 7 | Active phased antenna arrays calibration method including edge effects and mutual coupling. , 2017, , . | | 3 |
| 8 | RCS Reduction With a Dual Polarized Self-Complementary Connected Array Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 567-575. | 3.1 | 17 |
| 9 | TWEETHER future generation W-band backhaul and access network technology. , 2017, , . | | 6 |
| 10 | TWEETHER project for W-band wireless networks. , 2016, , . | | 4 |
| 11 | A dielectric-only superstrate inspired from transformation optics for complete reorientation of electromagnetic waves in azimuthal plane. EPJ Applied Metamaterials, 2016, 3, 5. | 0.8 | 3 |
| 12 | Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector. AIP Conference Proceedings, 2016, , . | 0.3 | 2 |
| 13 | Enhanced Broadside Gain of an Ultrawideband Diamond Dipole Antenna Using a Hybrid Reflector. IEEE Transactions on Antennas and Propagation, 2016, 64, 3269-3274. | 3.1 | 17 |
| 14 | Mobile phone model with metamaterials to reduce the exposure. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 2 |
| 15 | Low-profile metamaterial-based L-band antennas. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 8 |
| 16 | A Compact Wideband Dual-Polarized Antenna with Harmonic Suppression Using Nonuniform Defected Ground Structure. International Journal of Antennas and Propagation, 2015, 2015, 1-7. | 0.7 | 1 |
| 17 | Monopole antenna with metamaterials to reduce the exposure. Applied Physics A: Materials Science and Processing, 2015, 120, 917-925. | 1.1 | 1 |
| 18 | Antipodal radiation pattern of a patch antenna combined with superstrate using transformation electromagnetics. Applied Physics A: Materials Science and Processing, 2014, 117, 699-703. | 1.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Resistive high-impedance surfaces (RHIS) as absorbers for oblique incidence electromagnetic waves. Applied Physics A: Materials Science and Processing, 2014, 117, 693-697. | 1.1 | 10 |
| 20 | Self-complementary antenna array with low signature. , 2014, , . | | 2 |
| 21 | Compact wideband antenna above a wideband non-uniform artificial magnetic conductor. Applied Physics A: Materials Science and Processing, 2014, 117, 705-711. | 1.1 | 3 |
| 22 | IJMWT Special Issue on the 2013 National Microwave Days in France. International Journal of Microwave and Wireless Technologies, 2014, 6, 1-2. | 1.5 | 0 |
| 23 | All standard materials flat reflector made by transformation electromagnetics. International Journal of Microwave and Wireless Technologies, 2014, 6, 201-206. | 1.5 | 1 |
| 24 | Maximal Bandwidth of an Archimedean Spiral Antenna Above a Reflector. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 333-336. | 2.4 | 8 |
| 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. | 1.1 | 6 |
| 26 | Design and measurement of a thin and light absorbing material for space applications. Applied Physics A: Materials Science and Processing, 2014, 115, 541-545. | 1.1 | 15 |
| 27 | Design methodology to enhance high impedance surfaces performances. Advanced Electromagnetics, 2014, 3, 8. | 0.7 | 1 |
| 28 | Radiation Characteristics of Antennas. , 2013, , 33-59. | | 0 |
| 29 | Overview of UWB Antennas. , 2013, , 163-212. | | 1 |
| 30 | Metamaterial inspired fabryâ€™pÃ©rot antenna with cascaded frequency selective surfaces. Microwave and Optical Technology Letters, 2013, 55, 981-985. | 0.9 | 22 |
| 31 | Compact wideband harmonic suppressed antenna using nonâ€™uniform cascaded defected ground structure. Microwave and Optical Technology Letters, 2013, 55, 829-835. | 0.9 | 3 |
| 32 | Axial ratio improvement of an Archimedean spiral antenna over a radial AMC reflector. Applied Physics A: Materials Science and Processing, 2012, 109, 1081-1086. | 1.1 | 8 |
| 33 | Dual-band Artificial Magnetic Conductor. Applied Physics A: Materials Science and Processing, 2012, 109, 1075-1080. | 1.1 | 7 |
| 34 | Analytical approach for CRLH-based antennas design. Applied Physics A: Materials Science and Processing, 2012, 109, 1095-1101. | 1.1 | 2 |
| 35 | Wideband antenna with wideband harmonic suppression using non-uniform defected ground structure. , 2012, , . | | 0 |
| 36 | Wideband reflector for Archimedean spiral antenna. , 2012, , . | | 4 |

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|----|--|-----|-----------|
| 37 | Artificial Impedance Surface for widening the bandwidth of an antenna. , 2012, , . | | 0 |
| 38 | Circular High-Impedance Surfaces Characterization. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 260-263. | 2.4 | 40 |
| 39 | Wideband stepped reflector for Archimedean spiral antenna. , 2012, , . | | 2 |
| 40 | Compact Dual-Band Dual-Polarized Antenna for MIMO LTE Applications. International Journal of Antennas and Propagation, 2012, 2012, 1-10. | 0.7 | 3 |
| 41 | Dipole model of rectangular patch antenna, application to self, and mutual impedance analysis. Microwave and Optical Technology Letters, 2012, 54, 1017-1019. | 0.9 | 0 |
| 42 | A compact dual-band dual-port diversity antenna for LTE. Advanced Electromagnetics, 2012, 1, 52. | 0.7 | 1 |
| 43 | Wideband low profile antennas and metamaterials. , 2011, , . | | 1 |
| 44 | Analytical methods for AMC and EBG characterizations. Applied Physics A: Materials Science and Processing, 2011, 103, 805-808. | 1.1 | 12 |
| 45 | Wideband QAMC reflectorâ€™s antenna for low profile applications. Applied Physics A: Materials Science and Processing, 2011, 103, 809-813. | 1.1 | 7 |
| 46 | Investigation and Modeling of the UWB On-Body Propagation Channel. Wireless Personal Communications, 2010, 52, 17-28. | 1.8 | 7 |
| 47 | Wideband integrated feeding system for a dual polarisation sinuous antenna. IET Microwaves, Antennas and Propagation, 2010, 4, 1704. | 0.7 | 6 |
| 48 | Performance evaluation of a 3D ray tracing model in urban environment. , 2010, , . | | 3 |
| 49 | Characterization of a loaded high impedance surface. International Journal of Microwave and Wireless Technologies, 2009, 1, 483-487. | 1.5 | 14 |
| 50 | Wideband integrated CPSâ€™fed dual polarized quasi bowâ€™tie antenna. Microwave and Optical Technology Letters, 2009, 51, 2130-2136. | 0.9 | 2 |
| 51 | 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. | 0.9 | 0 |
| 52 | Feasibility of a Wideband Calculable Standard Antenna for EMC Measurements. , 2008, , . | | 0 |
| 53 | Wideband Demodulator for UWB Channel Sounding Application. , 2008, , . | | 0 |
| 54 | UWB Directive Triangular Patch Antenna. International Journal of Antennas and Propagation, 2008, 2008, 1-7. | 0.7 | 8 |

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|----|--|-----|-----------|
| 55 | E-Field Measurement, Accuracy and Uncertainties. , 2007, , . | | 1 |
| 56 | Broadband Archimedean spiral antenna above a loaded electromagnetic band gap substrate. IET Microwaves, Antennas and Propagation, 2007, 1, 212. | 0.7 | 21 |
| 57 | Baseband to baseband calibration of a MIMO wireless system. , 2007, , . | | 0 |
| 58 | Ultra wideband wide slot antenna with band-rejection characteristics. , 2006, , . | | 4 |
| 59 | A directive ultra wideband sinuous slot antenna. , 2006, , . | | 7 |
| 60 | A practical DIDO communication platform. , 2006, , . | | 1 |
| 61 | Elevation/Azimuth Propagation Angle Measurements Using Five-Port Wave Correlators. , 2006, , . | | 0 |
| 62 | Design of a broadband Archimedean spiral antenna above a thin modified Electromagnetic Band Gap substrate. , 2006, , . | | 6 |
| 63 | Characterization of the UWB on-body propagation channel. , 2006, , . | | 10 |
| 64 | Analytical study of printed dipoles with closed-form impedance formulas. Microwave and Optical Technology Letters, 2005, 45, 345-347. | 0.9 | 3 |
| 65 | Calculable Dipole Antenna for EMC Measurements with Low-Loss Wide-Band Balun from 30 MHz to 2 GHz. Electromagnetics, 2005, 25, 187-202. | 0.3 | 10 |
| 66 | 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. | 2.0 | 6 |
| 67 | A compact ultrawideband triangular patch antenna. Microwave and Optical Technology Letters, 2004, 40, 287-289. | 0.9 | 22 |
| 68 | 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. | 0.9 | 0 |
| 69 | A simple closed-form formula for the mutual impedance of dipoles. Microwave and Optical Technology Letters, 2002, 34, 371-374. | 0.9 | 3 |
| 70 | 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. | 0.9 | 2 |
| 71 | Mutual coupling analysis between two broadband dual polarized plate antennas. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 928-941. | 1.6 | 0 |
| 72 | Joint TOA/DOA Measurements for Spatio-Temporal Characteristics of 2.4 GHz Indoor Propagation Channel. , 0, , . | | 2 |