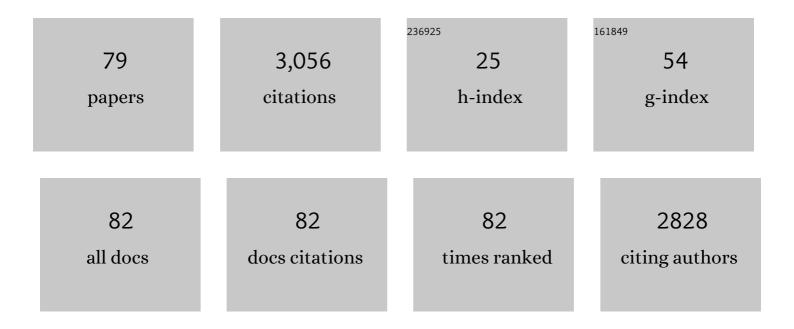
Guillaume Ducournau

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photonics-Based Near-Field Measurement and Far-Field Characterization for 300-GHz Band Antenna Testing. IEEE Open Journal of Antennas and Propagation, 2022, 3, 24-31.	3.7	13
2	Short Bends using Curved Mirrors in SiliconWaveguides for Terahertz Waves. Optics Express, 2022, 30, 6656-6670.	3.4	4
3	Photonics-Based Transmitters and Receivers. Springer Series in Optical Sciences, 2022, , 299-314.	0.7	2
4	Coherent Wireless Link at 300 GHz With 160 Gbit/s Enabled by a Photonic Transmitter. Journal of Lightwave Technology, 2022, 40, 4178-4185.	4.6	10
5	Active Ultrahighâ€∢i>Q (0.2 × 10 ⁶) THz Topological Cavities on a Chip. Advanced Materials, 2022, 34, e2202370.	21.0	48
6	Metasurface-Based Filters for High Data Rate THz Wireless Communication: Experimental Validation of a 14 Gbps OOK and 104 Gbps QAM-16 Wireless Link in the 300 GHz Band. IEEE Transactions on Wireless Communications, 2022, 21, 8688-8697.	9.2	13
7	A 140 GHz to 170 GHz Active Tunable Noise Source Development in SiGe BiCMOS 55 nm Technology. , 2022, , .		2
8	Monolayer molybdenum disulfide switches for 6G communication systems. Nature Electronics, 2022, 5, 367-373.	26.0	31
9	SOI-based micro-mechanical terahertz detector operating at room-temperature and atmospheric pressure. Applied Physics Letters, 2022, 120, 261103.	3.3	1
10	High- <i>Q</i> THz Photonic Crystal Cavity on a Low-Loss Suspended Silicon Platform. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 42-53.	3.1	20
11	Rapid prototyping of flexible terahertz metasurfaces using a microplotter. Optics Express, 2021, 29, 8617.	3.4	8
12	Coplanar waveguides on BCB measured up to 760 GHz. Journal of Electromagnetic Waves and Applications, 2021, 35, 2051-2061.	1.6	2
13	Freehand System for Antenna Diagnosis Based on Amplitude-Only Data. IEEE Transactions on Antennas and Propagation, 2021, 69, 4988-4998.	5.1	12
14	Terahertz Band Communications With Topological Valley Photonic Crystal Waveguide. Journal of Lightwave Technology, 2021, 39, 7609-7620.	4.6	32
15	SiGe Based LNA for Data Communication Applications at 211 GHz. , 2021, , .		1
16	H2S photoacoustic detection with an integrated THz gas sensor for food quality control. , 2021, , .		0
17	A Terahertz Wireless Communication Link Using a Superheterodyne Approach. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 32-43.	3.1	70
18	300-GHz Intermodulation/Noise Characterization Enabled by a Single THz Photonics Source. IEEE Microwave and Wireless Components Letters, 2020, 30, 1013-1016.	3.2	8

#	Article	IF	CITATIONS
19	A superheterodyne 300 GHz wireless link for ultra-fast terahertz communication systems. International Journal of Microwave and Wireless Technologies, 2020, 12, 578-587.	1.9	13
20	A 300-GHz Wireless Link Employing a Photonic Transmitter and an Active Electronic Receiver With a Transmission Bandwidth of 54ÂGHz. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 271-281.	3.1	26
21	Modeling and Analysis of a Broadband Schottky Diode Noise Source Up To 325 GHz Based on 55-nm SiGe BiCMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2268-2277.	4.6	18
22	Analogue switches made from boron nitride monolayers for application in 5G and terahertz communication systems. Nature Electronics, 2020, 3, 479-485.	26.0	86
23	High Q factor and high transmittance suspended membrane THz PhC cavity: experimental demonstration for sensing applications. , 2020, , .		0
24	50-Gbit/s Terahertz Communication using a Valley Photonic Crystal Waveguide. , 2020, , .		1
25	Millimeter-Wave Noise Source Development on SiGe BiCMOS 55-nm Technology for Applications up to 260 GHz. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3732-3742.	4.6	20
26	T-ray modulation of light for future THz radios. Nature Photonics, 2019, 13, 511-513.	31.4	3
27	InAlAs/InGaAs-MSM photodetectors based on optical cavity using metallic mirrors: THz frequency operation, high quantum efficiency and high saturation current. Applied Physics Letters, 2019, 114, .	3.3	4
28	300ÂGHz quadrature phase shift keying and QAM16 56ÂGbps wireless data links using silicon photonics photodiodes. Electronics Letters, 2019, 55, 808-810.	1.0	7
29	300 GHz-band 50 Gbit/s dual channel link using industrial silicon photonics technology. , 2019, , .		0
30	Silicon Based Diode Noise Source Scaling For Noise Measurement Up To 325 GHz. , 2019, , .		2
31	Radiative Quality Factor in Thin Resonant Metamaterial Absorbers. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1764-1772.	4.6	14
32	10-Gb/s Indoor THz Communications Using Industrial Si Photonics Technology. IEEE Microwave and Wireless Components Letters, 2018, 28, 362-364.	3.2	27
33	Indoor 100 Gbit/s THz data link in the 300 GHz band using fast photodiodes. , 2018, , .		7
34	Nano-structured top contact with low optical polarization dependence for THz generation using photodiodes. , 2018, , .		0
35	High-Directivity Terahertz Silicon-Lens TEM Horn Antenna. , 2018, , .		1
36	On Wafer Millimetre Wave Power Detection Using a PN Junction Diode in BiCMOS 55 nm for In-Situ Large Signal Characterization. , 2018, , .		2

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#	Article	IF	CITATIONS
37	Silicon photonics targets terahertz region. Nature Photonics, 2018, 12, 574-575.	31.4	25
38	Singleâ€channel 100ÂGbit/s transmission using Ill–V UTCâ€PDs for future IEEE 802.15.3d wireless links in the 300ÂGHz band. Electronics Letters, 2018, 54, 638-640.	1.0	60
39	High-Pass Sub-mmWave Filtering by Woven Textile Metamaterials. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 427-433.	3.1	11
40	Net-shaped pyramidal carbon-based ceramic materials designed for terahertz absorbers. Materials and Design, 2017, 120, 1-9.	7.0	11
41	A 130 to 170 GHz integrated noise source based on avalanche silicon Schottky diode in BiCMOS 55 nm for in-situ noise characterization. , 2017, , .		4
42	Generation of mW Level in the 300-GHz Band Using Resonant-Cavity-Enhanced Unitraveling Carrier Photodiodes. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 800-807.	3.1	35
43	Free-Space Characterization of Magneto-Optical Hexaferrites in the Submillimeter-Wave Range. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 563-571.	3.1	8
44	A 140 GHz to 160 GHz active impedance tuner for in-situ noise characterization in BiCMOS 55 nm. , 2017, , \cdot		4
45	Subâ€sampling of RF and THz waves using LTâ€GaAs photoconductors under 1550Ânm light excitation. Electronics Letters, 2017, 53, 1596-1598.	1.0	5
46	High Performance Heterostructure Low Barrier Diodes for Sub-THz Detection. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 780-788.	3.1	17
47	Mode-hopping suppression in long Brillouin fiber laser with non-resonant pumping. Optics Letters, 2016, 41, 2362.	3.3	23
48	Advances in terahertz communications accelerated by photonics. Nature Photonics, 2016, 10, 371-379.	31.4	1,284
49	Microwave and Millimeter Wave Properties of Vertically-Aligned Single Wall Carbon Nanotubes Films. Journal of Electronic Materials, 2016, 45, 2433-2441.	2.2	3
50	Kapton-derived carbon as efficient terahertz absorbers. Carbon, 2016, 100, 158-164.	10.3	35
51	Free space material characterization of carbon nanotube thin films at sub-terahertz frequencies. Journal of Electromagnetic Waves and Applications, 2016, 30, 589-598.	1.6	0
52	32ÂGbit/s QPSK transmission at 385ÂGHz using coherent fibreâ€optic technologies and THz double heterodyne detection. Electronics Letters, 2015, 51, 915-917.	1.0	41
53	Optimization and small-signal modeling of zero-bias InAs self-switching diode detectors. Solid-State Electronics, 2015, 104, 79-85.	1.4	21
54	THz Communications using Photonics and Electronic Devices: the Race to Data-Rate. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 198-220.	2.2	69

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#	Article	IF	CITATIONS
55	Coherent THz communication at 200ÂGHz using a frequency comb, UTCâ€PD and electronic detection. Electronics Letters, 2014, 50, 386-388.	1.0	73
56	High-Gain Yagi–Uda Antenna on Cyclic Olefin Copolymer Substrate for 300-GHz Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 939-942.	4.0	23
57	Optical properties of carbon nanotube thin films in subterahertz frequency regime. Microwave and Optical Technology Letters, 2014, 56, 1895-1898.	1.4	4
58	Terahertz wireless communication using GaAs transistors as detectors. Electronics Letters, 2014, 50, 323-325.	1.0	24
59	Heterogeneously integrated III–V/silicon dual-mode distributed feedback laser array for terahertz generation. Optics Letters, 2014, 39, 6403.	3.3	11
60	Subâ€THz characterisation of multiâ€walled carbon nanotube thin films using vector network analyser. Electronics Letters, 2014, 50, 297-299.	1.0	7
61	Monte Carlo study of the operation of GaN planar nanodiodes as sub-THz emitters in resonant circuits. Semiconductor Science and Technology, 2014, 29, 115032.	2.0	6
62	Narrow Linewidth Tunable Terahertz Radiation By Photomixing Without Servo-Locking. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 260-266.	3.1	18
63	Operation of GaN Planar Nanodiodes as THz Detectors and Mixers. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 670-677.	3.1	13
64	Ultrahigh sensitive sub-terahertz detection by InP-based asymmetric dual-grating-gate high-electron-mobility transistors and their broadband characteristics. Applied Physics Letters, 2014, 104, .	3.3	158
65	Ultrawide-Bandwidth Single-Channel 0.4-THz Wireless Link Combining Broadband Quasi-Optic Photomixer and Coherent Detection. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 328-337.	3.1	115
66	Highâ€definition television transmission at 600ÂGHz combining THz photonics hotspot and highâ€sensitivity heterodyne receiver. Electronics Letters, 2014, 50, 413-415.	1.0	19
67	Position effect of split ring resonators along terahertz planar Goubau line. , 2014, , .		0
68	Highly efficient terahertz detection by optical mixing in a GaAs photoconductor. Applied Physics Letters, 2013, 103, .	3.3	13
69	Terahertz detection in zero-bias InAs self-switching diodes at room temperature. Applied Physics Letters, 2013, 103, .	3.3	41
70	CW Source Based on Photomixing With Output Power Reaching 1.8 mW at 250 GHz. IEEE Electron Device Letters, 2013, 34, 1277-1279.	3.9	38
71	Nonlinear nanochannels for room temperature terahertz heterodyne detection. Semiconductor Science and Technology, 2013, 28, 125024.	2.0	15
72	Searching for THz Gunn oscillations in GaN planar nanodiodes. Journal of Applied Physics, 2012, 111, .	2.5	48

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#	Article	IF	CITATIONS
73	Highly coherent terahertz wave generation with a dual-frequency Brillouin fiber laser and a 155 μm photomixer. Optics Letters, 2011, 36, 2044.	3.3	42
74	Milliwatt-level output power in the sub-terahertz range generated by photomixing in a GaAs photoconductor. Applied Physics Letters, 2011, 99, .	3.3	57
75	Thin-film transmission lines using cyclic olefin copolymer for millimetre-wave and terahertz integrated circuits. Electronics Letters, 2011, 47, 453.	1.0	42
76	Analysis of a narrowband terahertz signal generated by a unitravelling carrier photodiode coupled with a dual-mode semiconductor Fabry–Pérot laser. Applied Physics Letters, 2010, 96, 241106.	3.3	17
77	Optically power supplied Gbit/s wireless hotspot using 1.55â€[micro sign]m THz photomixer and heterodyne detection at 200â€GHz. Electronics Letters, 2010, 46, 1349.	1.0	33
78	Recent Developments of an Opto-Electronic THz Spectrometer for High-Resolution Spectroscopy. Sensors, 2009, 9, 9039-9057.	3.8	29
79	High-efficiency uni-travelling-carrier photomixer at 1.55â€[micro sign]m and spectroscopy application up to 1.4â€THz. Electronics Letters, 2008, 44, 1320.	1.0	43