

Cyril C Renaud

List of Publications by Year in descending order

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99
papers

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218677

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53
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100
all docs

100
docs citations

100
times ranked

4031
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodiodes for Terahertz Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-12.	2.9	17
2	Cascaded Microwave Photonic Filters for Side Mode Suppression in a Tunable Optoelectronic Oscillator applied to THz Signal Generation & Transmission. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	4
3	Pilot-Tone Assisted 16-QAM Photonic Wireless Bridge Operating At 250 GHz. Journal of Lightwave Technology, 2021, 39, 2725-2736.	4.6	10
4	Design and Fabrication of sub-THz Steerable Photonic Transmitter 1Å–4 Array for Short-Distance Wireless Links. , 2021, , .		1
5	Remote Photonic THz Generation Using an Optical Frequency Comb and Multicore Fiber. Journal of Lightwave Technology, 2021, 39, 7621-7627.	4.6	2
6	Photonically Generated Millimetre-Wave and THz Links for Wireless Fronthaul and Backhaul. , 2021, , .		1
7	Tunable THz Signal Generation and Radio-Over-Fiber Link Based on an Optoelectronic Oscillator-Driven Optical Frequency Comb. Journal of Lightwave Technology, 2020, 38, 5240-5247.	4.6	18
8	Integrated Wireless-Optical Backhaul and Fronthaul Provision Through Multicore Fiber. IEEE Access, 2020, 8, 146915-146922.	4.2	2
9	Efficient compact modelling of UTC-photodiode towards terahertz communication system design. Solid-State Electronics, 2020, 170, 107836.	1.4	8
10	Integrated Photonics for Wireless and Satellite Applications. , 2020, , .		1
11	Continuously Tunable Coherent THz Synthesizer, Referenced to Primary Frequency Standards. , 2019, , .		0
12	Integrating THz Wireless Communication Links in a Data Centre Network. , 2019, , .		5
13	Comparison of Optical Single Sideband Techniques for THz-Over-Fiber Systems. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 98-105.	3.1	7
14	High performance waveguide uni-travelling carrier photodiode grown by solid source molecular beam epitaxy. Optics Express, 2019, 27, 37065.	3.4	12
15	Photonic systems for tunable mm-wave and THz wireless communications. , 2019, , .		0
16	Integrated Semiconductor Laser Optical Phase Lock Loops. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-12.	2.9	53
17	Antenna Integrated THz Uni-Travelling Carrier Photodiodes. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-11.	2.9	52
18	THz Over Fibre for High Capacity Wireless Transmission: Tutorial Paper. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Photonic THz Generation using Optoelectronic Oscillator-driven Optical Frequency Comb Generator. , 2018, , .		4
20	Optically Pumped Mixing in Photonically Integrated Uni- Travelling Carrier Photodiode. , 2018, , .		0
21	60 GHz Wireless Link Implementing an Electronic Mixer Driven by a Photonically Integrated Uni-Traveling Carrier Photodiode at the Receiver. , 2018, , .		2
22	Microwave Oscillator Ultrasound Receivers. , 2018, , .		0
23	Tuneable Optical Frequency Comb Generator for THz Spectroscopy. , 2018, , .		0
24	Optical Frequency Tuning for Coherent THz Wireless Signals. Journal of Lightwave Technology, 2018, 36, 4664-4670.	4.6	13
25	60-GHz Transmission Link Using Uni-Traveling Carrier Photodiodes at the Transmitter and the Receiver. Journal of Lightwave Technology, 2018, 36, 4507-4513.	4.6	17
26	Optical Phase Lock Loop as High-Quality Tuneable Filter for Optical Frequency Comb Line Selection. Journal of Lightwave Technology, 2018, 36, 4646-4654.	4.6	9
27	5 Gbps wireless transmission link with an optically pumped uni-traveling carrier photodiode mixer at the receiver. Optics Express, 2018, 26, 2884.	3.4	17
28	Single Sideband Signals for Phase Noise Mitigation in Wireless THz-Over-Fibre Systems. Journal of Lightwave Technology, 2018, 36, 4527-4534.	4.6	16
29	Optical comb for generation of a continuously tunable coherent THz signal from 1225â€‰GHz to >27â€‰THz. Optics Letters, 2018, 43, 2507.	3.3	18
30	Spectrally Efficient SSB signals for W-band Links Enabled by Kramers-Kronig Receiver. , 2018, , .		8
31	Distribution of multiband THz wireless signals over fiber. , 2017, , .		2
32	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	2.8	1,160
33	Photonic generation and distribution of coherent multiband THz wireless signals. , 2017, , .		2
34	Monolithically integrated optical phase lock loop with 1 THz tuneability. , 2017, , .		0
35	Experimental investigation of phase noise tolerance of SSB THz signals. , 2017, , .		1
36	Coherent frequency tuneable thz wireless signal generation using an optical phase lock loop system. , 2017, , .		3

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37	1 Gbaud QPSK wireless receiver using an opto-electronic mixer. , 2017, , .		1
38	Opto-electronic cross-phase tuneable system based on cascaded intensity modulators. , 2017, , .		1
39	Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach. , 2017, , .		11
40	Foundry fabricated photonic integrated circuit optical phase lock loop. Optics Express, 2017, 25, 16888.	3.4	11
41	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. Optica, 2017, 4, 1059.	9.3	28
42	Modelling and measurement of the absolute level of power radiated by antenna integrated THz UTC photodiodes. Optics Express, 2016, 24, 11793.	3.4	21
43	Advances in terahertz communications accelerated by photonics. Nature Photonics, 2016, 10, 371-379.	31.4	1,284
44	Sub-THz Wireless Over Fiber for Frequency Band 220â€“280 GHz. Journal of Lightwave Technology, 2016, 34, 4786-4793.	4.6	40
45	Accurate equivalent circuit model for millimetre-wave UTC photodiodes. Optics Express, 2016, 24, 4698.	3.4	30
46	Demonstration of photonic integrated RAU for millimetre-wave gigabit wireless transmissio. , 2016, , .		2
47	Linewidth tolerance for THz communication systems using phase estimation algorithm. , 2016, , .		1
48	Comparison of photonic integrated circuits for millimeter-wave signal generation between dual-wavelength sources for optical heterodyning and pulsed mode-locked lasers. Proceedings of SPIE, 2015, , .	0.8	1
49	Multiband transmission for sub-THz wireless over fibre communication system. , 2015, , .		0
50	Wireless data transmission and frequency stabilization with a millimeter-wave photonic integrated circuit. , 2015, , .		3
51	Microwave Photonics: Present Status and Future Outlook (Plenary Paper). , 2015, , .		2
52	TeraHertz Photonics for Wireless Communications. Journal of Lightwave Technology, 2015, 33, 579-587.	4.6	278
53	Near-Field Analysis of Terahertz Pulse Generation From Photo-Excited Charge Density Gradients. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 260-267.	3.1	12
54	Phase Noise Investigation of Multicarrier Sub-THz Wireless Transmission System Based on an Injection-Locked Gain-Switched Laser. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 590-597.	3.1	35

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55	100 Gb/s Multicarrier THz Wireless Transmission System With High Frequency Stability Based on A Gain-Switched Laser Comb Source. IEEE Photonics Journal, 2015, 7, 1-11.	2.0	85
56	Prospects for millimetre-wave-over-fibre and THz-over-fibre systems. Proceedings of SPIE, 2015, , .	0.8	1
57	Uni-travelling carrier photodetectors as THz detectors and emitters. , 2015, , .		2
58	Mapping the distribution of photo-currents responsible for generation of terahertz pulses at semiconductor surfaces. , 2014, , .		2
59	Photonic integration for millimetre-wave and THz systems. , 2014, , .		0
60	Zenneck THz Surface Waves-assisted Imaging of Subwavelength Dielectric Particles. , 2014, , .		0
61	Photonic integrated circuit on InP for millimeter wave generation. Proceedings of SPIE, 2014, , .	0.8	1
62	Optical injection locking of monolithically integrated photonic source for generation of high purity signals above 100 GHz. Optics Express, 2014, 22, 29404.	3.4	50
63	High temperature operation of athermal widely tuneable laser with simplified wavelength control for WDM-PON systems. Optics Express, 2014, 22, 24405.	3.4	5
64	Photonic generation for multichannel THz wireless communication. Optics Express, 2014, 22, 23465.	3.4	65
65	Monolithically Integrated Optical Phase Lock Loop for Microwave Photonics. Journal of Lightwave Technology, 2014, 32, 3893-3900.	4.6	44
66	DWDM-PON/mm-Wave wireless converged Next Generation Access Topology using coherent heterodyne detection. , 2014, , .		9
67	Integrated InP Heterodyne Millimeter Wave Transmitter. IEEE Photonics Technology Letters, 2014, 26, 965-968.	2.5	56
68	Microwave Photonic Integrated Circuits for Millimeter-Wave Wireless Communications. Journal of Lightwave Technology, 2014, 32, 3495-3501.	4.6	141
69	Multichannel 200GHz 40Gb/s wireless communication system using photonic signal generation. , 2014, , .		4
70	Monolithically integrated tuneable photonic source for the generation and modulation of millimetre-wave. , 2014, , .		3
71	A 1 Gbps 105.4 GHz Link with a Directly Modulated Photonic Integrated Dual Laser Source. , 2014, , .		0
72	Surface plasmon waves for broadband THz spectroscopy. Proceedings of SPIE, 2013, , .	0.8	0

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73	Heterodyne millimeter wave source with monolithically integrated UTC photodiodes. , 2013, , .		2
74	Tunable InP photonic integrated circuit for millimeter wave generation. , 2013, , .		0
75	Coherent terahertz photonics. Optics Express, 2013, 21, 22988.	3.4	61
76	Optical demodulation of THz signals. , 2013, , .		2
77	Near-Field Probe Mapping of the THz Electric Field Distribution on Metallic Surfaces. , 2013, , .		1
78	Ultra-high-speed uni-traveling carrier photodiodes and their applications. , 2013, , .		2
79	Spatial confinement of broadband THz pulses with a twin-needle probe for THz spectroscopy. , 2013, , .		0
80	95ÂGHz millimeter wave signal generation using an arrayed waveguide grating dual wavelength semiconductor laser. Optics Letters, 2012, 37, 3657.	3.3	85
81	Terahertz probe for spectroscopy of sub-wavelength objects. Optics Express, 2012, 20, 6197.	3.4	17
82	InGaAsP-based uni-travelling carrier photodiode structure grown by solid source molecular beam epitaxy. Optics Express, 2012, 20, 19279.	3.4	14
83	1 Gb/s wireless link at 200 GHz using heterodyne detection. , 2012, , .		1
84	Millimeter-wave signal generation by optical heterodyne of two channels from an arrayed waveguide grating-based multi-wavelength laser. , 2012, , .		1
85	Modelling of surface waves on a THz antenna detected by a near-field probe. Optics Express, 2012, 20, 16023.	3.4	28
86	Millimeter-Wave Optoelectronic Mixers Based on Uni-Traveling Carrier Photodiodes. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 686-691.	4.6	38
87	170 GHz Photodiodes for InP-based photonic integrated circuits. , 2012, , .		8
88	Continuous Wave Terahertz Generation From Ultra-Fast InP-Based Photodiodes. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 509-517.	4.6	125
89	Monolithically Integrated Photonic Heterodyne System. Journal of Lightwave Technology, 2011, 29, 2229-2234.	4.6	71
90	InP-based ultra-fast photodetectors for millimeter-wave sub-harmonic mixers. , 2011, , .		4

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91	Optoelectronic detection of millimetre-wave signals with travelling-wave uni-travelling carrier photodiodes. Optics Express, 2011, 19, 2079.	3.4	35
92	Monolithically integrated heterodyne optical phase-lock loop with RF XOR phase detector. Optics Express, 2011, 19, 20048.	3.4	31
93	Hybrid Integrated Optical Phase-Lock Loops for Photonic Terahertz Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 210-217.	2.9	51
94	Imaging and Analysis of THz Surface Plasmon Polariton Waves with the Integrated Sub-wavelength Aperture Probe. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 1031-1042.	2.2	33
95	Optically Pumped Mixing at 100 GHz with Travelling-Wave Uni-Travelling Carrier Photodiodes. , 2011, , .		3
96	Traveling-wave Uni-Travelling Carrier Photodiodes for continuous wave THz generation. Optics Express, 2010, 18, 11105.	3.4	154
97	Millimeter-Wave Photonic Components for Broadband Wireless Systems. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3071-3082.	4.6	119
98	Fast Tuneable InGaAsP DBR Laser Using Quantum-Confined Stark-Effect-Induced Refractive Index Change. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1112-1121.	2.9	23
99	A Monolithic MQW InP-InGaAsP-Based Optical Comb Generator. IEEE Journal of Quantum Electronics, 2007, 43, 998-1005.	1.9	20