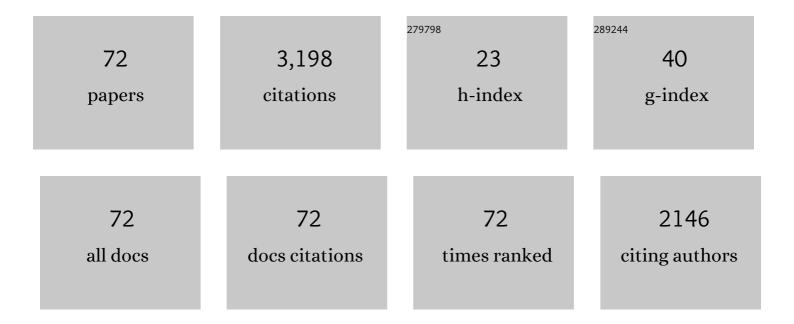
Chris G H Roeloffzen

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Integrated microwave photonics. Laser and Photonics Reviews, 2013, 7, 506-538.	8.7	614
2	Silicon Nitride in Silicon Photonics. Proceedings of the IEEE, 2018, 106, 2209-2231.	21.3	313
3	Programmable photonic signal processor chip for radiofrequency applications. Optica, 2015, 2, 854.	9.3	311
4	Silicon nitride microwave photonic circuits. Optics Express, 2013, 21, 22937.	3.4	268
5	Low-Loss Si3N4 TriPleX Optical Waveguides: Technology and Applications Overview. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-21.	2.9	243
6	On-chip CMOS compatible reconfigurable optical delay line with separate carrier tuning for microwave photonic signal processing. Optics Express, 2011, 19, 21475.	3.4	175
7	Low-loss, high-index-contrast Si_3N_4/SiO_2 optical waveguides for optical delay lines in microwave photonics signal processing. Optics Express, 2011, 19, 23162.	3.4	136
8	A photonic chip based frequency discriminator for a high performance microwave photonic link. Optics Express, 2010, 18, 27359.	3.4	90
9	Hybrid integrated InP-Si ₃ N ₄ diode laser with a 40-Hz intrinsic linewidth. Optics Express, 2020, 28, 21713.	3.4	87
10	Multiwavelength-Integrated Optical Beamformer Based on Wavelength Division Multiplexing for 2-D Phased Array Antennas. Journal of Lightwave Technology, 2014, 32, 3509-3520.	4.6	78
11	Ring resonator-based on-chip modulation transformer for high-performance phase-modulated microwave photonic links. Optics Express, 2013, 21, 25999.	3.4	74
12	8×8 reconfigurable quantum photonic processor based on silicon nitride waveguides. Optics Express, 2019, 27, 26842.	3.4	70
13	Hybrid Integrated Semiconductor Lasers with Silicon Nitride Feedback Circuits. Photonics, 2020, 7, 4.	2.0	63
14	Towards a Scaleable 5G Fronthaul: Analog Radio-over-Fiber and Space Division Multiplexing. Journal of Lightwave Technology, 2020, 38, 5412-5422.	4.6	60
15	Analysis of a Multibeam Optical Beamforming Network Based on Blass Matrix Architecture. Journal of Lightwave Technology, 2018, 36, 3354-3372.	4.6	54
16	Optically Integrated InP–Si\$_3\$ N\$_4\$ Hybrid Laser. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	51
17	Foundry Developments Toward Silicon Nitride Photonics From Visible to the Mid-Infrared. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-13.	2.9	47
18	Novel lowâ€loss waveguide delay lines using Vernier ring resonators for onâ€chip multiâ€Î» microwave photonic signal processors. Laser and Photonics Reviews. 2013. 7. 994-1002.	8.7	33

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19	Sub-GHz-resolution C-band Nyquist-filtering interleaver on a high-index-contrast photonic integrated circuit. Optics Express, 2016, 24, 5715.	3.4	33
20	Design and Application of Compact and Highly Tolerant Polarization-Independent Waveguides. Journal of Lightwave Technology, 2007, 25, 1276-1283.	4.6	30
21	Large-scale integrated optics using TriPleX waveguide technology: from UV to IR. Proceedings of SPIE, 2009, , .	0.8	30
22	A 5G C-RAN Optical Fronthaul Architecture for Hotspot Areas Using OFDM-Based Analog IFoF Waveforms. Applied Sciences (Switzerland), 2019, 9, 4059.	2.5	24
23	True Time Delay Optical Beamforming Network Based on Hybrid Inp-Silicon Nitride Integration. Journal of Lightwave Technology, 2021, 39, 5845-5854.	4.6	23
24	Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si) Tj ETQq0 O IEEE Photonics Journal, 2018, 10, 1-8.	0 rgBT /0 2.0	verlock 10 T 21
25	A 5G Fiber Wireless 4Gb/s WDM Fronthaul for Flexible 360° Coverage in V-Band massive MIMO Small Cells. Journal of Lightwave Technology, 2021, 39, 1081-1088.	4.6	21
26	Reconfigurable Fiber Wireless IFoF Fronthaul With 60 GHz Phased Array Antenna and Silicon Photonic ROADM for 5G mmWave C-RANs. IEEE Journal on Selected Areas in Communications, 2021, 39, 2816-2826.	14.0	19
27	High-Selectivity On-Chip Optical Bandpass Filter With Sub-100-MHz Flat-Top and Under-2 Shape Factor. IEEE Photonics Technology Letters, 2019, 31, 455-458.	2.5	18
28	Fully reconfigurable coupled ring resonator-based bandpass filter for microwave signal processing. , 2014, , .		15
29	Dual-Frequency Distributed Feedback Laser With Optical Frequency Locked Loop for Stable Microwave Signal Generation. IEEE Photonics Technology Letters, 2012, 24, 1431-1433.	2.5	14
30	CRIT-Alternative Narrow-Passband Waveguide Filter for Microwave Photonic Signal Processors. IEEE Photonics Technology Letters, 2014, 26, 1034-1037.	2.5	14
31	28 GBd PAM-8 transmission over a 100 nm range using an InP-Si ₃ N ₄ based integrated dual tunable laser module. Optics Express, 2021, 29, 16563.	3.4	13
32	Experimental Demonstration of Dynamic Optical Beamforming for Beyond 5G Spatially Multiplexed Fronthaul Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	13
33	Design and Performance Estimation of a Photonic Integrated Beamforming Receiver for Scan-on-Receive Synthetic Aperture Radar. Journal of Lightwave Technology, 2021, 39, 7588-7599.	4.6	13
34	Widely Tunable RF Signal Generation Using an InP/Si ₃ N ₄ Hybrid Integrated Dual-Wavelength Optical Heterodyne Source. Journal of Lightwave Technology, 2021, 39, 7664-7671.	4.6	12
35	Enhanced coverage though optical beamforming in fiber wireless networks. , 2017, , .		11
36	Separate carrier tuning scheme for integrated optical delay lines in photonic beamformers. , 2011, , .		9

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#	Article	IF	CITATIONS
37	A broadband high dynamic range analog photonic link using push-pull directly-modulated semiconductor lasers. , 2008, , .		7
38	Integrated microwave photonics for 5G. , 2018, , .		7
39	Enhanced Dynamic Range in a Directly Modulated Analog Photonic Link. IEEE Photonics Technology Letters, 2009, 21, 1810-1812.	2.5	6
40	Automatic Delay Tuning of a Novel Ring Resonator-Based Photonic Beamformer for a Transmit Phased Array Antenna. Journal of Lightwave Technology, 2019, 37, 4976-4984.	4.6	6
41	High power, tunable, narrow linewidth dual gain hybrid laser. , 2019, , .		6
42	Hybrid interconnection of InP and TriPleX photonic integrated circuits for new module functionality. , 2019, , .		5
43	Control and Management Scheme in a DWDM EPON. , 2006, , .		4
44	On-chip, CMOS-compatible, hardware-compressive integrated photonic beamformer based on WDM. , 2013, , .		4
45	Ring resonator-based on-chip PM-IM convertor for high-performance microwave photonic links. , 2013, , .		4
46	High spectral purity microwave generation using a dual-frequency hybrid integrated semiconductor-dielectric waveguide laser. OSA Continuum, 2021, 4, 2133.	1.8	4
47	Lossless 1 × 4 Silicon Photonic ROADM Based on a Monolithic Integrated Erbium Doped Waveguide Amplifier on a Si ₃ N ₄ Platform. Journal of Lightwave Technology, 2022, 40, 1718-1725.	4.6	4
48	Corrections to "Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si3N4/SiO2) Microring Resonators for Optical Coherent System― IEEE Photonics Journal, 2018, 10, 1-1.	2.0	3
49	Programmable Integrated Microwave Photonic Filter using a Modulation Transformer and a Double-Injection Ring Resonator. , 2021, , .		3
50	Self-mode-locking in a high-power hybrid silicon nitride integrated laser. Optics Letters, 2022, 47, 198.	3.3	3
51	Ultra-low power stress-based phase actuation in TriPleX photonic circuits. , 2022, , .		3
52	Flexible V-band mmWave Analog-RoF Transmission of 5G and WiGig signals using an InP-SiN Integrated Laser Module. , 2021, , .		3
53	Smart Antennas in aerospace applications. , 2010, , .		2
54	Low-loss and programmable integrated photonic beamformer for electronically-steered broadband phased array antennas. , 2011, , .		2

#	Article	IF	CITATIONS
55	Arrays of surface-normal electroabsorption modulators for the generation and signal processing of microwave photonics signals. , $2011, , .$		2
56	Photonic integration and components development for a K <inf>u</inf> -band phased array antenna system. , 2011, , .		2
57	CMOS-compatible integrated optical delay line for broadband K <inf>u</inf> -band satellite communications. , 2012, , .		2
58	Integrated microwave photonics for phase modulated systems. , 2012, , .		2
59	Waveguide filter-based on-chip differentiator for microwave photonic signal processing. , 2013, , .		2
60	Ultra-low-power stress-based phase actuator for microwave photonics. , 2017, , .		2
61	High power integrated laser for microwave photonics. , 2020, , .		2
62	Flexible Optical and Millimeter-Wave Analog-RoF Transmission with a Silicon-based Integrated Dual Laser Module. , 2021, , .		2
63	Wavelength & mm-Wave Flexible Converged Optical Fronthaul With a Low Noise Si-Based Integrated Dual Laser Source. Journal of Lightwave Technology, 2022, 40, 3307-3315.	4.6	2
64	Continuously tunable photonic fractional Hilbert transformer using ring resonators for on-chip microwave photonic signal processing. , 2012, , .		1
65	Broadband Continuously Tuneable Delay Microwave Photonic Beamformer for Phased Array Antennas. , 2019, , .		1
66	Broadband Continuously Tuneable Delay Microwave Photonic Beamformer for Phased Array Antennas. , 2019, , .		1
67	Silicon nitride integrated mode-locked laser with widely tunable line spacing. , 2021, , .		1
68	Performance comparison of two analog photonic links employing a pair of directly modulated lasers and a balanced photodetector. , 2009, , .		0
69	Si3N4 Reconfigurable Linear Optical Network for Quantum Information Processing. , 2019, , .		0
70	Analog IFoF/mmWave 5G Optical Fronthaul Architecture for Hot-Spots Using Multi-channel OFDM-Based WDM Signals. Lecture Notes in Computer Science, 2020, , 504-515.	1.3	0
71	Intra-Data Centre Flexible PAM Transmission System Using an Integrated InP-Si ₃ N ₄ Dual Laser Module. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	0
72	Photonic-Based Microwave Signal Generation using and Hybrid Integrated Optical Heterodyne Source.		0

, 2021, , .