

# William Peter Corcoran

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

2,923  
citations

331670

21  
h-index

182427

51  
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84  
all docs

84  
docs citations

84  
times ranked

2123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing DC restoration in Kramers-Kronig optical single-sideband receivers. Optics Express, 2022, 30, 2825.	3.4	3
2	Versatile, high bandwidth, RF and microwave photonic Hilbert transformers based on Kerr micro-combs. , 2022, , .		1
3	Optical Neuromorphic Processor at 11 TeraOPs/s based on Kerr Soliton Crystal Micro-combs. , 2022, , .		1
4	Pilot-Tone-Assisted Stimulated-Brillouin-Scattering-Based Optical Carrier Recovery for Kramers-Kronig Reception. Journal of Lightwave Technology, 2022, 40, 4642-4648.	4.6	0
5	Optimising microring resonator based optical frequency comb distillation for optical communications systems. Optics Express, 2022, 30, 17836.	3.4	4
6	Frequency comb distillation for optical superchannel transmission. Journal of Lightwave Technology, 2021, , 1-1.	4.6	13
7	Wide-range optical carrier recovery via broadened Brillouin filters. Optics Letters, 2021, 46, 166.	3.3	8
8	Highly Versatile Broadband RF Photonic Fractional Hilbert Transformer Based on a Kerr Soliton Crystal Microcomb. Journal of Lightwave Technology, 2021, 39, 7581-7587.	4.6	21
9	Effective linewidth reduction in self-homodyne coherent reception by stimulated Brillouin scattering-based optical carrier recovery. Optics Express, 2021, 29, 25697.	3.4	2
10	Effects of Receiver-Side Optical Filtering On Optical Superchannel System Performance. Journal of Lightwave Technology, 2021, 39, 6097-6106.	4.6	4
11	11 TOPS photonic convolutional accelerator for optical neural networks. Nature, 2021, 589, 44-51.	27.8	550
12	Integral order photonic RF signal processors based on a soliton crystal micro-comb source. Journal of Optics (United Kingdom), 2021, 23, 125701.	2.2	14
13	Microcombs for Ultradense Optical Communications. , 2021, , .		0
14	Effective Linewidth Reduction in Self-Homodyne Coherent Reception Enabled by stimulated Brillouin scattering. , 2021, , .		0
15	Photonic RF Phase-Encoded Signal Generation With a Microcomb Source. Journal of Lightwave Technology, 2020, 38, 1722-1727.	4.6	55
16	Photonic Perceptron Based on a Kerr Microcomb for High-Speed, Scalable, Optical Neural Networks. Laser and Photonics Reviews, 2020, 14, 2000070.	8.7	84
17	Photonic RF Arbitrary Waveform Generator Based on a Soliton Crystal Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 6221-6226.	4.6	62
18	Photonic RF and Microwave Integrator Based on a Transversal Filter With Soliton Crystal Microcombs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3582-3586.	3.0	23

#	ARTICLE	IF	CITATIONS
19	Enhanced Kramers-Kronig Single-Sideband Receivers. Journal of Lightwave Technology, 2020, 38, 3229-3237.	4.6	11
20	RF and Microwave Fractional Differentiator Based on Photonics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2767-2771.	3.0	44
21	Ultra-dense optical data transmission over standard fibre with a single chip source. Nature Communications, 2020, 11, 2568.	12.8	192
22	Broadband SBS Filter for Optical Carrier Recovery Applications in Telecommunication Systems. , 2020, , .		0
23	Clamping of noise from a stimulated Brillouin scattering amplifier through optical injection locking. , 2020, , .		0
24	EDFA-band Coverage Broadband SBS Filter for Optical Carrier Recovery. , 2020, , .		2
25	Nanosecond-Latency IM/DD/DSB Short-Haul to Coherent/SSB Long-Haul Converter. Journal of Lightwave Technology, 2019, 37, 5333-5339.	4.6	1
26	Microwave and RF Photonic Fractional Hilbert Transformer Based on a 50 GHz Kerr Micro-Comb. Journal of Lightwave Technology, 2019, 37, 6097-6104.	4.6	61
27	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
28	Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth. Optics Express, 2019, 27, 24007.	3.4	0
29	Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. Laser and Photonics Reviews, 2018, 12, 1700256.	8.7	435
30	Distributed Nonlinear Compensation Using Optoelectronic Circuits. Journal of Lightwave Technology, 2018, 36, 1326-1339.	4.6	4
31	Filtered Carrier Phase Estimator for High-Order QAM Optical Systems. Journal of Lightwave Technology, 2018, 36, 2980-2993.	4.6	9
32	Nanosecond-Latency IM/DD/DSB to Coherent/SSB Converter. , 2018, , .		1
33	Single-photodiode per polarization receiver with signal-signal beat interference suppression through heterodyne detection. Optics Express, 2018, 26, 3075.	3.4	20
34	Inter-channel nonlinear phase noise compensation using optical injection locking. Optics Express, 2018, 26, 5733.	3.4	13
35	Chip-based Brillouin processing for carrier recovery in self-coherent optical communications. Optica, 2018, 5, 1191.	9.3	37
36	Compensating XPM Using a Low-Bandwidth Phase Modulator. IEEE Photonics Technology Letters, 2017, 29, 699-702.	2.5	4

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37	Real-Time Demonstration of Augmented-Spectral-Efficiency DMT Transmitter Using a Single IFFT. Journal of Lightwave Technology, 2017, 35, 4796-4803.	4.6	5
38	Photonic Circuit Topologies for Optical OFDM and Nyquist WDM. Journal of Lightwave Technology, 2017, 35, 781-791.	4.6	14
39	Single IFFT Augmented Spectral Efficiency DMT Transmitter. , 2017, , .		1
40	Subcarrier Pairwise Coding for Short-Haul L/E-ACO-OFDM. IEEE Photonics Technology Letters, 2017, 29, 1584-1587.	2.5	14
41	Demonstration of DP-16QAM WDM link with in-line nonlinearity compensation. , 2017, , .		1
42	Cyclic-spectrum pulse shaping for increased nonlinear tolerance. , 2017, , .		0
43	Simple optoelectronic frequency-offset estimator for coherent optical OFDM. Optics Express, 2017, 25, 32161.	3.4	5
44	Polarization independent optical injection locking for carrier recovery in optical communication systems. Optics Express, 2017, 25, 21216.	3.4	9
45	Mitigation of Electrical Bandwidth Limitations using Optical Pre-Sampling. , 2017, , .		3
46	Full C-band Nyquist-WDM Interleaver Chip. , 2017, , .		2
47	Cyclic spectra for wavelength-routed optical networks. Optics Letters, 2017, 42, 1101.	3.3	3
48	Folded orthogonal frequency division multiplexing. Optics Express, 2016, 24, 29670.	3.4	2
49	Distributed Nonlinearity Compensation of Dual-Polarization Signals Using Optoelectronics. IEEE Photonics Technology Letters, 2016, 28, 2141-2144.	2.5	10
50	Sub-GHz-resolution C-band Nyquist-filtering interleaver on a high-index-contrast photonic integrated circuit. Optics Express, 2016, 24, 5715.	3.4	33
51	Multipass Performance of a Chip-Enhanced WSS for Nyquist-WDM Sub-Band Switching. Journal of Lightwave Technology, 2016, 34, 1824-1830.	4.6	18
52	Nyquist-Filtering (De)Multiplexer Using a Ring Resonator Assisted Interferometer Circuit. Journal of Lightwave Technology, 2016, 34, 1732-1738.	4.6	20
53	Phase-Sensitive Amplified Transmission Links for Improved Sensitivity and Nonlinearity Tolerance. Journal of Lightwave Technology, 2015, 33, 710-721.	4.6	111
54	Sub-band pairwise coding for inter-channel-interference mitigation in superchannel transmission systems. , 2015, , .		3

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55	Time-lenses for time-division multiplexing of optical OFDM channels. Optics Express, 2015, 23, 29788.	3.4	9
56	Optoelectronic method for inline compensation of XPM in long-haul optical links. Optics Express, 2015, 23, 859.	3.4	11
57	Widely-tunable low-phase-noise coherent receiver using an optical Wadley loop. Optics Express, 2015, 23, 19891.	3.4	3
58	Single ring resonator QPSK modulator. , 2015, , .		0
59	Nyquist-WDM With Low-Complexity Joint Matched Filtering and Adaptive Equalization. IEEE Photonics Technology Letters, 2014, 26, 2323-2326.	2.5	12
60	Experimental demonstrations of dual polarization CO-OFDM using mid-span spectral inversion for nonlinearity compensation. Optics Express, 2014, 22, 10455.	3.4	35
61	All-optical generation of DFT-S-OFDM superchannels using periodic sinc pulses. Optics Express, 2014, 22, 27026.	3.4	6
62	Photonic High-Bandwidth RF Splitter With Arbitrary Amplitude and Phase Offset. IEEE Photonics Technology Letters, 2014, 26, 2122-2125.	2.5	10
63	Experimental comparison between Nyquist-WDM and continuous DFT-S-OFDM systems. , 2014, , .		3
64	Fiber Optic Parametric Amplifier With 10-dB Net Gain Without Pump Dithering. IEEE Photonics Technology Letters, 2013, 25, 234-237.	2.5	86
65	Phase-Sensitive Amplifiers for Optical Links. , 2013, , .		1
66	Injection locking-based pump recovery for phase-sensitive amplified links. Optics Express, 2013, 21, 14512.	3.4	134
67	Fiber-optic Parametric Amplifiers Without Pump Dithering. , 2013, , .		0
68	Phase and amplitude characteristics of a phase-sensitive amplifier operating in gain saturation. Optics Express, 2012, 20, 21400.	3.4	43
69	Experimental Characterization of a Phase-Sensitive Four-Mode Fiber-Optic Parametric Amplifier. , 2012, , .		9
70	Phase-Sensitive Amplified Optical Link Operating in the Nonlinear Transmission Regime. , 2012, , .		13
71	Photonic-Chip-Based Ultrafast Waveform Analysis and Optical Performance Monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 834-846.	2.9	3
72	Silicon-Chip-Based Real-Time Dispersion Monitoring for 640 Gbit/s DPSK Signals. Journal of Lightwave Technology, 2011, 29, 1790-1796.	4.6	44

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73	Ultracompact 160 Gbaud all-optical demultiplexing exploiting slow light in an engineered silicon photonic crystal waveguide. Optics Letters, 2011, 36, 1728.	3.3	32
74	All-optical signal processing using slow light enhanced nonlinearities in silicon waveguides. , 2011, , .		0
75	Slow light enhanced nonlinear photonic functionalities. , 2010, , .		0
76	Slow Light Enhanced Nonlinear Optics in Silicon Photonic Crystal Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 344-356.	2.9	132
77	Silicon-chip-based THz bandwidth radio-frequency spectrum analyser. , 2010, , .		0
78	Silicon chip based instantaneous dispersion monitoring for a 640 Gbit/s DPSK signal. , 2010, , .		0
79	Multi-Impairment Monitoring at 320 Gb/s Based on Cross-Phase Modulation Radio-Frequency Spectrum Analyzer. IEEE Photonics Technology Letters, 2010, 22, 428-430.	2.5	19
80	Investigation of phase matching for third-harmonic generation in silicon slow light photonic crystal waveguides using Fourier optics. Optics Express, 2010, 18, 6831.	3.4	54
81	Silicon nanowire based radio-frequency spectrum analyzer. Optics Express, 2010, 18, 20190.	3.4	67
82	Nonlinear loss dynamics in a silicon slow-light photonic crystal waveguide. Optics Letters, 2010, 35, 1073.	3.3	12
83	Slow light enhancement of nonlinear effects in silicon engineered photonic crystal waveguides. Optics Express, 2009, 17, 2944.	3.4	221
84	All-optical self-switching in optimized phase-shifted fiber Bragg grating. Optics Express, 2009, 17, 5083.	3.4	26