Arthur James Lowery

List of Publications by Year
in descending order

44 papers	1,312 citations	687363 13 h-index	526287 27 g-index
44 all docs	44 docs citations	44 times ranked	827 citing authors

#	Article	IF	Citations
1	Spectrally efficient optical orthogonal frequency division multiplexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190180.	3.4	15
2	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
3	Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth. Optics Express, 2019, 27, 24007.	3.4	0
4	Single-IFFT Real-Time Layered/Enhanced ACO-OFDM Transmitter. , 2018, , .		0
5	Real-Time Demonstration of Augmented-Spectral-Efficiency DMT Transmitter Using a Single IFFT. Journal of Lightwave Technology, 2017, 35, 4796-4803.	4.6	5
6	Distributed Nonlinear Compensation using Optoelectronic Circuits. , 2017, , .		2
7	All-optical digital-to-analog converter based on cross-phase modulation with temporal integration. Optics Letters, 2017, 42, 4549.	3.3	8
8	Compact 4Ã—5 Gb/s Silicon-on-Insulator OFDM Transmitter. , 2017, , .		2
9	Mitigation of Electrical Bandwidth Limitations using Optical Pre-Sampling. , 2017, , .		3
10	Full C-band Nyquist-WDM Interleaver Chip. , 2017, , .		2
11	Banded all-optical OFDM super-channels with low-bandwidth receivers. Optics Express, 2016, 24, 17968.	3.4	4
12	Nyquist pulse shaping using arrayed waveguide grating routers. Optics Express, 2016, 24, 22357.	3.4	6
13	Photonic integrated circuit as a picosecond pulse timing discriminator. Optics Express, 2016, 24, 8776.	3.4	8
14	Comparisons of spectrally-enhanced asymmetrically-clipped optical OFDM systems. Optics Express, 2016, 24, 3950.	3.4	55
15	Subband Pairwise Coding for Robust Nyquist-WDM Superchannel Transmission. Journal of Lightwave Technology, 2016, 34, 1746-1753.	4.6	8
16	WDM Wavelength Quantizer. , 2016, , .		0
17	Nyquist-WDM Channel Generation using an Arrayed Waveguide Grating Router. , 2016, , .		2
18	Electro-Photonics. , 2016, , .		0

#	Article	IF	Citations
19	Application of Photonic Circuits for Optical OFDM and Nyquist WDM. , 2016, , .		1
20	Improved polarization dependent loss tolerance for polarization multiplexed coherent optical systems by polarization pairwise coding. Optics Express, 2015, 23, 27434.	3.4	17
21	Time-lenses for time-division multiplexing of optical OFDM channels. Optics Express, 2015, 23, 29788.	3.4	9
22	Widely-tunable low-phase-noise coherent receiver using an optical Wadley loop. Optics Express, 2015, 23, 19891.	3.4	3
23	Systems performance comparison of three all-optical generation schemes for quasi-Nyquist WDM. Optics Express, 2015, 23, 21706.	3.4	11
24	Flexible all-optical frequency allocation of OFDM subcarriers. Optics Express, 2014, 22, 1045.	3.4	22
25	All-optical DAC using counter-propagating optical and electrical pulses in a Mach-Zehnder modulator. Optics Express, 2014, 22, 26429.	3.4	7
26	All-optical generation of DFT-S-OFDM superchannels using periodic sinc pulses. Optics Express, 2014, 22, 27026.	3.4	6
27	Inserting a cyclic prefix using arrayed-waveguide grating routers in all-optical OFDM transmitters. Optics Express, 2012, 20, 9742.	3.4	25
28	All-optical OFDM transmitter design using AWGRs and low-bandwidth modulators. Optics Express, 2011, 19, 15696.	3.4	39
29	Optical orthogonal division multiplexing for long haul optical communications: A review of the first five years. Optical Fiber Technology, 2011, 17, 421-438.	2.7	108
30	Design of arrayed-waveguide grating routers for use as optical OFDM demultiplexers. Optics Express, 2010, 18, 14129.	3.4	132
31	Impact of PMD in Single-Receiver and Polarization-Diverse Direct-Detection Optical OFDM. Journal of Lightwave Technology, 2009, 27, 2792-2799.	4.6	19
32	Experimental Demonstrations of Electronic Dispersion Compensation for Long-Haul Transmission Using Direct-Detection Optical OFDM. Journal of Lightwave Technology, 2008, 26, 196-203.	4.6	266
33	Amplified-spontaneous noise limit of optical OFDM lightwave systems. Optics Express, 2008, 16, 860.	3.4	127
34	Compatibility of optical OFDM and NRZ in WDM communication links. , 2008, , .		0
35	Improving Sensitivity and Spectral Efficiency in Direct-Detection Optical OFDM Systems. , 2008, , .		27
36	Optical OFDM. , 2008, , .		6

#	Article	IF	Citations
37	Laser RIN and linewidth requirements for direct detection optical OFDM. , 2008, , .		15
38	Orthogonal-Frequency-Division Multiplexing for Optical Dispersion Compensation. , 2007, , .		19
39	Performance of Optical OFDM in Ultralong-Haul WDM Lightwave Systems. Journal of Lightwave Technology, 2007, 25, 131-138.	4.6	230
40	Comparison of power-efficient optical orthogonal frequency division multiplexing transmission methods. , 2006, , .		2
41	Wdm channel spacing in ultra long haul optical OFDM systems. , 2006, , .		0
42	Reduced component count optical delay discriminator using a semiconductor optical amplifier-detector. Optics Express, 2005, 13, 290.	3.4	11
43	Design and simulation of a simple laser rangefinder using a semiconductor optical amplifier-detector. Optics Express, 2005, 13, 3647.	3.4	9
44	10Gbit/s Multimode Fiber Link using Power-Efficient Orthogonal-Frequency-Division Multiplexing. Optics Express, 2005, 13, 10003.	3.4	76