

# Arthur James Lowery

## List of Publications by Year in descending order

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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	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
2	Performance of Optical OFDM in Ultralong-Haul WDM Lightwave Systems. Journal of Lightwave Technology, 2007, 25, 131-138.	4.6	230
3	Design of arrayed-waveguide grating routers for use as optical OFDM demultiplexers. Optics Express, 2010, 18, 14129.	3.4	132
4	Amplified-spontaneous noise limit of optical OFDM lightwave systems. Optics Express, 2008, 16, 860.	3.4	127
5	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
6	10Gbit/s Multimode Fiber Link using Power-Efficient Orthogonal-Frequency-Division Multiplexing. Optics Express, 2005, 13, 10003.	3.4	76
7	Comparisons of spectrally-enhanced asymmetrically-clipped optical OFDM systems. Optics Express, 2016, 24, 3950.	3.4	55
8	All-optical OFDM transmitter design using AWGRs and low-bandwidth modulators. Optics Express, 2011, 19, 15696.	3.4	39
9	Improving Sensitivity and Spectral Efficiency in Direct-Detection Optical OFDM Systems. , 2008, , .		27
10	Inserting a cyclic prefix using arrayed-waveguide grating routers in all-optical OFDM transmitters. Optics Express, 2012, 20, 9742.	3.4	25
11	Flexible all-optical frequency allocation of OFDM subcarriers. Optics Express, 2014, 22, 1045.	3.4	22
12	Orthogonal-Frequency-Division Multiplexing for Optical Dispersion Compensation. , 2007, , .		19
13	Impact of PMD in Single-Receiver and Polarization-Diverse Direct-Detection Optical OFDM. Journal of Lightwave Technology, 2009, 27, 2792-2799.	4.6	19
14	Improved polarization dependent loss tolerance for polarization multiplexed coherent optical systems by polarization pairwise coding. Optics Express, 2015, 23, 27434.	3.4	17
15	Laser RIN and linewidth requirements for direct detection optical OFDM. , 2008, , .		15
16	Spectrally efficient optical orthogonal frequency division multiplexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190180.	3.4	15
17	Reduced component count optical delay discriminator using a semiconductor optical amplifier-detector. Optics Express, 2005, 13, 290.	3.4	11
18	Systems performance comparison of three all-optical generation schemes for quasi-Nyquist WDM. Optics Express, 2015, 23, 21706.	3.4	11

#	ARTICLE	IF	CITATIONS
19	Design and simulation of a simple laser rangefinder using a semiconductor optical amplifier-detector. Optics Express, 2005, 13, 3647.	3.4	9
20	Time-lenses for time-division multiplexing of optical OFDM channels. Optics Express, 2015, 23, 29788.	3.4	9
21	Photonic integrated circuit as a picosecond pulse timing discriminator. Optics Express, 2016, 24, 8776.	3.4	8
22	Subband Pairwise Coding for Robust Nyquist-WDM Superchannel Transmission. Journal of Lightwave Technology, 2016, 34, 1746-1753.	4.6	8
23	All-optical digital-to-analog converter based on cross-phase modulation with temporal integration. Optics Letters, 2017, 42, 4549.	3.3	8
24	All-optical DAC using counter-propagating optical and electrical pulses in a Mach-Zehnder modulator. Optics Express, 2014, 22, 26429.	3.4	7
25	Optical OFDM. , 2008, , .		6
26	All-optical generation of DFT-S-OFDM superchannels using periodic sinc pulses. Optics Express, 2014, 22, 27026.	3.4	6
27	Nyquist pulse shaping using arrayed waveguide grating routers. Optics Express, 2016, 24, 22357.	3.4	6
28	Real-Time Demonstration of Augmented-Spectral-Efficiency DMT Transmitter Using a Single IFFT. Journal of Lightwave Technology, 2017, 35, 4796-4803.	4.6	5
29	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
30	Banded all-optical OFDM super-channels with low-bandwidth receivers. Optics Express, 2016, 24, 17968.	3.4	4
31	Widely-tunable low-phase-noise coherent receiver using an optical Wadley loop. Optics Express, 2015, 23, 19891.	3.4	3
32	Mitigation of Electrical Bandwidth Limitations using Optical Pre-Sampling. , 2017, , .		3
33	Comparison of power-efficient optical orthogonal frequency division multiplexing transmission methods. , 2006, , .		2
34	Distributed Nonlinear Compensation using Optoelectronic Circuits. , 2017, , .		2
35	Nyquist-WDM Channel Generation using an Arrayed Waveguide Grating Router. , 2016, , .		2
36	Compact 4Å–5 Gb/s Silicon-on-Insulator OFDM Transmitter. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	Full C-band Nyquist-WDM Interleaver Chip. , 2017, , .		2
38	Application of Photonic Circuits for Optical OFDM and Nyquist WDM. , 2016, , .		1
39	Wdm channel spacing in ultra long haul optical OFDM systems. , 2006, , .		0
40	Compatibility of optical OFDM and NRZ in WDM communication links. , 2008, , .		0
41	WDM Wavelength Quantizer. , 2016, , .		0
42	Electro-Photonics. , 2016, , .		0
43	Single-IFFT Real-Time Layered/Enhanced ACO-OFDM Transmitter. , 2018, , .		0
44	Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth. Optics Express, 2019, 27, 24007.	3.4	0