

# David S Millar

## List of Publications by Year in descending order

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27  
papers

781  
citations

516710

16  
h-index

752698

20  
g-index

27  
all docs

27  
docs citations

27  
times ranked

484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Oriented DSP for Flexible Long Haul Coherent Transmission. Journal of Lightwave Technology, 2022, 40, 1256-1272.	4.6	10
2	Huffman-Coded Sphere Shaping for Extended-Reach Single-Span Links. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-15.	2.9	19
3	Dual Coding Concatenation for Burst-Error Correction in Probabilistic Amplitude Shaping. , 2021, , .		1
4	Experimental Analysis of Mismatched Soft-Demapping for Probabilistic Shaping in Short-Reach Nonlinear Transmission. , 2021, , .		0
5	Analysis of Nonlinear Fiber Interactions for Finite-Length Constant-Composition Sequences. Journal of Lightwave Technology, 2020, 38, 457-465.	4.6	39
6	Nonlinearity Tolerant LUT-Based Probabilistic Shaping for Extended-Reach Single-Span Links. IEEE Photonics Technology Letters, 2020, 32, 967-970.	2.5	17
7	Huffman-Coded Sphere Shaping and Distribution Matching Algorithms via Lookup Tables. Journal of Lightwave Technology, 2020, 38, 2826-2834.	4.6	16
8	Neural Turbo Equalization: Deep Learning for Fiber-Optic Nonlinearity Compensation. Journal of Lightwave Technology, 2020, , 1-1.	4.6	23
9	Parallel-Amplitude Architecture and Subset Ranking for Fast Distribution Matching. IEEE Transactions on Communications, 2020, 68, 1981-1990.	7.8	20
10	DSP for Optical Transponders. Springer Handbooks, 2020, , 155-176.	0.6	0
11	Distribution Matching for High Spectral Efficiency Optical Communication With Multiset Partitions. Journal of Lightwave Technology, 2019, 37, 517-523.	4.6	20
12	Multiset-Partition Distribution Matching. IEEE Transactions on Communications, 2019, 67, 1885-1893.	7.8	90
13	Irregular Polar Coding for Complexity-Constrained Lightwave Systems. Journal of Lightwave Technology, 2018, 36, 2248-2258.	4.6	25
14	Mapping options of 4D constant modulus format for multi-subcarrier modulation. , 2018, , .		3
15	Coded Modulation for Next-Generation Optical Communications. , 2018, , .		10
16	Nonlinearity-Tolerant Four-Dimensional 2A8PSK Family for 5â€“7 Bits/Symbol Spectral Efficiency. Journal of Lightwave Technology, 2017, 35, 1383-1391.	4.6	47
17	Pareto Optimization of Adaptive Modulation and Coding Set in Nonlinear Fiber-Optic Systems. Journal of Lightwave Technology, 2017, 35, 1041-1049.	4.6	16
18	Design of a 1 Tb/s Superchannel Coherent Receiver. Journal of Lightwave Technology, 2016, 34, 1453-1463.	4.6	70

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of multi-pilot aided carrier phase estimation for DP-64QAM and DP-256QAM. , 2015, , .		8
20	High-dimensional modulation for coherent optical communications systems. Optics Express, 2014, 22, 8798.	3.4	95
21	Digital Signal Processing (DSP) and Its Application in Optical Communication Systems. , 2013, , 163-219.		7
22	Long-Haul Transmission of PS-QPSK at 100 Gb/s Using Digital Backpropagation. IEEE Photonics Technology Letters, 2012, 24, 176-178.	2.5	13
23	Blind adaptive equalization of "polarization-switched QPSK modulation. Optics Express, 2011, 19, 8533.	3.4	40
24	Generation and long-haul transmission of polarization-switched QPSK at 429 Gb/s. Optics Express, 2011, 19, 9296.	3.4	38
25	Burst Mode Receiver for 112 Gb/s DP-QPSK with parallel DSP. Optics Express, 2011, 19, B770.	3.4	33
26	Mitigation of Fiber Nonlinearity Using a Digital Coherent Receiver. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1217-1226.	2.9	112
27	Novel Method of Generating QAM-16 Signals at 21.3 Gbaud and Transmission Over 480 km. IEEE Photonics Technology Letters, 2010, 22, 36-38.	2.5	9