David J Ives

List of Publications by Year
in descending order

36	1,264	623734	552781
papers	citations	14 h-index	26 g-index

36	36	36	1004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perturbation-Based Frequency Domain Linear and Nonlinear Noise Estimation. Journal of Lightwave Technology, 2022, 40, 6055-6063.	4.6	3
2	Transceiver Noise Characterization Based on Perturbations. Journal of Lightwave Technology, 2021, 39, 5799-5804.	4.6	3
3	Physics-Informed Gaussian Process Regression for Optical Fiber Communication Systems. Journal of Lightwave Technology, 2021, 39, 6833-6844.	4.6	11
4	Scalable Capacity Estimation for Nonlinear Elastic All-Optical Core Networks. Journal of Lightwave Technology, 2019, 37, 5380-5391.	4.6	19
5	Design considerations for low-margin elastic optical networks in the nonlinear regime [Invited]. Journal of Optical Communications and Networking, 2019, 11, C76.	4.8	11
6	Technology Requirements for an Alamouti-Coded 100 Gb/s Digital Coherent Receiver Using 3 Ã— 3 Couplers for Passive Optical Networks. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	12
7	Estimating Network Throughput with an Adaptive Routing and Wavelength Assignment Algorithm. , 2018, , .		3
8	Throughput Gains From Adaptive Transceivers in Nonlinear Elastic Optical Networks. Journal of Lightwave Technology, 2017, 35, 1280-1289.	4.6	9
9	Single Channel Probe Utilizing the EGN Model to Estimate Link Parameters for Network Abstraction. , 2017, , .		4
10	Designing adaptive coded modulation for optical networks via achievable information rates. , 2017, , .		0
11	The benefit of split nonlinearity compensation for single channel optical fiber communications. , 2016, , .		2
12	Using 25â€‰â€‰GbE Client Rates to Access the Gains of Adaptive Bit- and Code-Rate Networking. Journal of Optical Communications and Networking, 2016, 8, A86.	4.8	7
13	Network Equipment and Their Procurement Strategy for High Capacity Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, A201.	4.8	15
14	The Benefit of Split Nonlinearity Compensation for Single-Channel Optical Fiber Communications. IEEE Photonics Technology Letters, 2016, 28, 1803-1806.	2.5	31
15	On the Impact of Optimal Modulation and FEC Overhead on Future Optical Networks. Journal of Lightwave Technology, 2016, 34, 2339-2352.	4.6	26
16	How Pessimistic is a Worst-Case SNR Degradation as a Link Abstraction Metric?. , 2016, , .		2
17	Impact of Amplifier Noise Figure on Network Throughput. , 2016, , .		1
18	Assessment of Options for Utilizing SNR Margin to Increase Network Data Throughput. , 2015, , .		14

#	Article	IF	Citations
19	Non-linear impairment modeling for flexgrid network and its application in offline network equipment upgrade strategy. , 2015, , .		3
20	Routing, modulation, spectrum and launch power assignment to maximize the traffic throughput of a nonlinear optical mesh network. Photonic Network Communications, 2015, 29, 244-256.	2.7	50
21	Adapting Transmitter Power and Modulation Format to Improve Optical Network Performance Utilizing the Gaussian Noise Model of Nonlinear Impairments. Journal of Lightwave Technology, 2014, 32, 4087-4096.	4.6	65
22	Carrier Phase Recovery for 16-QAM Using QPSK Partitioning and Sliding Window Averaging. IEEE Photonics Technology Letters, 2014, 26, 854-857.	2.5	26
23	Carrier-Phase Estimation for 16-QAM Optical Coherent Systems Using QPSK Partitioning With Barycenter Approximation. Journal of Lightwave Technology, 2014, 32, 2420-2427.	4.6	13
24	Differential carrier phase recovery for QPSK optical coherent systems with integrated tunable lasers. Optics Express, 2013, 21, 10166.	3.4	18
25	Transmitter Optimized Optical Networks. , 2013, , .		13
26	Development of a variable launch attenuation and isolation measurement system for optical waveguides. Applied Optics, 2011, 50, 4268.	2.1	1
27	Estimating OSNR of equalised QPSK signals. Optics Express, 2011, 19, B661.	3.4	23
28	Integrated optical and electronic interconnect PCB manufacturing research. Circuit World, 2010, 36, 5-19.	0.9	40
29	Compensation of Frequency Offset for Differentially Encoded 16- and 64-QAM in the Presence of Laser Phase Noise. IEEE Photonics Technology Letters, 2010, 22, 176-178.	2.5	32
30	Laser Linewidth Tolerance for 16-QAM Coherent Optical Systems Using QPSK Partitioning. IEEE Photonics Technology Letters, 2010, 22, 631-633.	2.5	226
31	Blind Equalization and Carrier Phase Recovery in a 16-QAM Optical Coherent System. Journal of Lightwave Technology, 2009, 27, 3042-3049.	4.6	295
32	Intensity and phase measurements of asymmetric mode profiles and the transform in the near- to far-field transitions. Applied Optics, 2008, 47, 1002.	2.1	2
33	Compensation of Quadrature Imbalance in an Optical QPSK Coherent Receiver. IEEE Photonics Technology Letters, 2008, 20, 1733-1735.	2.5	225
34	Accurate Magnified Near-Field Measurement of Optical Waveguides Using a Calibrated CCD Camera. Journal of Lightwave Technology, 2006, 24, 5067-5074.	4.6	9
35	Noise model for polarization-sensitive optical coherence tomography. , 2006, 6079, 408.		0
36	Numerical Simulation of Intensity and Phase Noise From Extracted Parameters for CW DFB Lasers. IEEE Journal of Quantum Electronics, 2006, 42, 934-941.	1.9	50