

David J Ives

List of Publications by Year in descending order

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36
papers

1,264
citations

623734

14
h-index

552781

26
g-index

36
all docs

36
docs citations

36
times ranked

1004
citing authors

#	ARTICLE	IF	CITATIONS
1	Blind Equalization and Carrier Phase Recovery in a 16-QAM Optical Coherent System. Journal of Lightwave Technology, 2009, 27, 3042-3049.	4.6	295
2	Laser Linewidth Tolerance for 16-QAM Coherent Optical Systems Using QPSK Partitioning. IEEE Photonics Technology Letters, 2010, 22, 631-633.	2.5	226
3	Compensation of Quadrature Imbalance in an Optical QPSK Coherent Receiver. IEEE Photonics Technology Letters, 2008, 20, 1733-1735.	2.5	225
4	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
5	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
6	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
7	Integrated optical and electronic interconnect PCB manufacturing research. Circuit World, 2010, 36, 5-19.	0.9	40
8	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
9	The Benefit of Split Nonlinearity Compensation for Single-Channel Optical Fiber Communications. IEEE Photonics Technology Letters, 2016, 28, 1803-1806.	2.5	31
10	Carrier Phase Recovery for 16-QAM Using QPSK Partitioning and Sliding Window Averaging. IEEE Photonics Technology Letters, 2014, 26, 854-857.	2.5	26
11	On the Impact of Optimal Modulation and FEC Overhead on Future Optical Networks. Journal of Lightwave Technology, 2016, 34, 2339-2352.	4.6	26
12	Estimating OSNR of equalised QPSK signals. Optics Express, 2011, 19, B661.	3.4	23
13	Scalable Capacity Estimation for Nonlinear Elastic All-Optical Core Networks. Journal of Lightwave Technology, 2019, 37, 5380-5391.	4.6	19
14	Differential carrier phase recovery for QPSK optical coherent systems with integrated tunable lasers. Optics Express, 2013, 21, 10166.	3.4	18
15	Network Equipment and Their Procurement Strategy for High Capacity Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, A201.	4.8	15
16	Assessment of Options for Utilizing SNR Margin to Increase Network Data Throughput. , 2015, , .		14
17	Transmitter Optimized Optical Networks. , 2013, , .		13
18	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

#	ARTICLE	IF	CITATIONS
19	Technology Requirements for an Alamouti-Coded 100 Gb/s Digital Coherent Receiver Using 3 Å– 3 Couplers for Passive Optical Networks. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	12
20	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
21	Physics-Informed Gaussian Process Regression for Optical Fiber Communication Systems. Journal of Lightwave Technology, 2021, 39, 6833-6844.	4.6	11
22	Accurate Magnified Near-Field Measurement of Optical Waveguides Using a Calibrated CCD Camera. Journal of Lightwave Technology, 2006, 24, 5067-5074.	4.6	9
23	Throughput Gains From Adaptive Transceivers in Nonlinear Elastic Optical Networks. Journal of Lightwave Technology, 2017, 35, 1280-1289.	4.6	9
24	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
25	Single Channel Probe Utilizing the EGN Model to Estimate Link Parameters for Network Abstraction. , 2017, , .		4
26	Non-linear impairment modeling for flexgrid network and its application in offline network equipment upgrade strategy. , 2015, , .		3
27	Perturbation-Based Frequency Domain Linear and Nonlinear Noise Estimation. Journal of Lightwave Technology, 2022, 40, 6055-6063.	4.6	3
28	Transceiver Noise Characterization Based on Perturbations. Journal of Lightwave Technology, 2021, 39, 5799-5804.	4.6	3
29	Estimating Network Throughput with an Adaptive Routing and Wavelength Assignment Algorithm. , 2018, , .		3
30	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
31	The benefit of split nonlinearity compensation for single channel optical fiber communications. , 2016, , .		2
32	How Pessimistic is a Worst-Case SNR Degradation as a Link Abstraction Metric?. , 2016, , .		2
33	Development of a variable launch attenuation and isolation measurement system for optical waveguides. Applied Optics, 2011, 50, 4268.	2.1	1
34	Impact of Amplifier Noise Figure on Network Throughput. , 2016, , .		1
35	Noise model for polarization-sensitive optical coherence tomography. , 2006, 6079, 408.		0
36	Designing adaptive coded modulation for optical networks via achievable information rates. , 2017, , .		0