Daniel Semrau

List of Publications by Year
in descending order

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33 papers	795 citations	567281 15 h-index	642732 23 g-index
33 all docs	33 docs citations	33 times ranked	453 citing authors

#	Article	IF	Citations
1	Modeling of Fiber Nonlinearity in Wideband Transmission. , 2022, , .		3
2	Modelling the Delayed Nonlinear Fiber Response in Coherent Optical Communications. Journal of Lightwave Technology, 2021, 39, 1937-1952.	4.6	8
3	Making intelligent topology design choices: understanding structural and physical property performance implications in optical networks [Invited]. Journal of Optical Communications and Networking, 2021, 13, D53.	4.8	13
4	Modeling the Delayed Nonlinear Fiber Response in Ultra-Wideband Transmission Systems. , 2021, , .		0
5	Corrections to â€œA Modulation Format Correction Formula for the Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scatteringâ€• Journal of Lightwave Technology, 2020, 38, 1604-1604.	4.6	1
6	Effect of Channel Launch Power on Fill Margin in C+L Band Elastic Optical Networks. Journal of Lightwave Technology, 2020, 38, 1032-1040.	4.6	37
7	74.38 Tb/s Transmission Over 6300 km Single Mode Fibre Enabled by C+L Amplification and Geometrically Shaped PDM-64QAM. Journal of Lightwave Technology, 2020, 38, 531-537.	4.6	25
8	Modeling and mitigation of fiber nonlinearity in wideband optical signal transmission [Invited]. Journal of Optical Communications and Networking, 2020, 12, C68.	4.8	31
9	Crosstalk Impact on the Performance of Wideband Multicore-Fiber Transmission Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	2.9	12
10	Relative impact of channel symbol rate on transmission capacity. Journal of Optical Communications and Networking, 2020, 12, B1.	4.8	10
11	The Benefits of Using the S-Band in Optical Fiber Communications and How to Get There. , 2020, , .		10
12	Intelligent design of optical networks: which topology features help maximise throughput in the nonlinear regime?. , 2020, , .		8
13	Candidate Technologies for Ultra-wideband Nonlinear Optical Fibre Transmission System. , 2020, , .		2
14	A Modulation Format Correction Formula for the Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. Journal of Lightwave Technology, 2019, 37, 5122-5131.	4.6	46
15	Study on the Impact of Nonlinearity and Noise on the Performance of High-Capacity Broadband Hybrid Raman-EDFA Amplified System. Journal of Lightwave Technology, 2019, 37, 5507-5515.	4.6	20
16	Performance of Kramersâ€“Kronig Receivers in the Presence of Local Oscillator Relative Intensity Noise. Journal of Lightwave Technology, 2019, 37, 3035-3043.	4.6	6
17	Overview and Comparison of Nonlinear Interference Modelling Approaches in Ultra-Wideband Optical Transmission Systems. , 2019, , .		5
18	A Closed-Form Approximation of the Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. Journal of Lightwave Technology, 2019, 37, 1924-1936.	4.6	125

#	Article	IF	Citations
19	Capacity Benefits of Operation Over $mathrm{C}+mathrm{L}$ Band Elastic Optical Network in the Indian Network Scenario. , 2019, , .		3
20	Effect of reduced link margins on Câ€‰+â€‰L band elastic optical networks. Journal of Optical Communications and Networking, 2019, 11, C86.	4.8	25
21	Analytical Model for Transmission Performance of Single Mode Multicore Fibre with Nonlinearity Compensation. , 2019, , .		5
22	The Impact of Transceiver Noise on Digital Nonlinearity Compensation. Journal of Lightwave Technology, 2018, 36, 695-702.	4.6	17
23	The Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. Journal of Lightwave Technology, 2018, 36, 3046-3055.	4.6	115
24	Impact of Transceiver Subsystems on Digital Back Propagation Performance. , 2018, , .		1
25	The ISRS GN Model, an Efficient Tool in Modeling Ultra-Wideband Transmission in Point-to-Point and Network Scenarios. , 2018, , .		15
26	On the Impact of Fixed Point Hardware for Optical Fiber Nonlinearity Compensation Algorithms. Journal of Lightwave Technology, 2018, 36, 5016-5022.	4.6	8
27	Experimental Analysis of Nonlinear Impairments in Fibre Optic Transmission Systems up to 7.3 THz. Journal of Lightwave Technology, 2017, 35, 4809-4816.	4.6	17
28	A Closed-Form Expression to Evaluate Nonlinear Interference in Raman-Amplified Links. Journal of Lightwave Technology, 2017, 35, 4316-4328.	4.6	15
29	On the bandwidth dependent performance of split transmitter-receiver optical fiber nonlinearity compensation. Optics Express, 2017, 25, 4554.	3.4	13
30	On the limits of digital back-propagation in the presence of transceiver noise. Optics Express, 2017, 25, 4564.	3.4	49
31	Achievable rate degradation of ultra-wideband coherent fiber communication systems due to stimulated Raman scattering. Optics Express, 2017, 25, 13024.	3.4	38
32	Investigation of bandwidth loading in optical fibre transmission using amplified spontaneous emission noise. Optics Express, 2017, 25, 19529.	3.4	63
33	Achievable information rates estimates in optically amplified transmission systems using nonlinearity compensation and probabilistic shaping. Optics Letters, 2017, 42, 121.	3.3	49