

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	A Closed-Form Approximation of the Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. <i>Journal of Lightwave Technology</i> , 2019, 37, 1924-1936.	4.6	125
2	The Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. <i>Journal of Lightwave Technology</i> , 2018, 36, 3046-3055.	4.6	115
3	Investigation of bandwidth loading in optical fibre transmission using amplified spontaneous emission noise. <i>Optics Express</i> , 2017, 25, 19529.	3.4	63
4	On the limits of digital back-propagation in the presence of transceiver noise. <i>Optics Express</i> , 2017, 25, 4564.	3.4	49
5	Achievable information rates estimates in optically amplified transmission systems using nonlinearity compensation and probabilistic shaping. <i>Optics Letters</i> , 2017, 42, 121.	3.3	49
6	A Modulation Format Correction Formula for the Gaussian Noise Model in the Presence of Inter-Channel Stimulated Raman Scattering. <i>Journal of Lightwave Technology</i> , 2019, 37, 5122-5131.	4.6	46
7	Achievable rate degradation of ultra-wideband coherent fiber communication systems due to stimulated Raman scattering. <i>Optics Express</i> , 2017, 25, 13024.	3.4	38
8	Effect of Channel Launch Power on Fill Margin in C+L Band Elastic Optical Networks. <i>Journal of Lightwave Technology</i> , 2020, 38, 1032-1040.	4.6	37
9	Modeling and mitigation of fiber nonlinearity in wideband optical signal transmission [Invited]. <i>Journal of Optical Communications and Networking</i> , 2020, 12, C68.	4.8	31
10	Effect of reduced link margins on C+L band elastic optical networks. <i>Journal of Optical Communications and Networking</i> , 2019, 11, C86.	4.8	25
11	74.38 Tb/s Transmission Over 6300 km Single Mode Fibre Enabled by C+L Amplification and Geometrically Shaped PDM-64QAM. <i>Journal of Lightwave Technology</i> , 2020, 38, 531-537.	4.6	25
12	Study on the Impact of Nonlinearity and Noise on the Performance of High-Capacity Broadband Hybrid Raman-EDFA Amplified System. <i>Journal of Lightwave Technology</i> , 2019, 37, 5507-5515.	4.6	20
13	Experimental Analysis of Nonlinear Impairments in Fibre Optic Transmission Systems up to 7.3 THz. <i>Journal of Lightwave Technology</i> , 2017, 35, 4809-4816.	4.6	17
14	The Impact of Transceiver Noise on Digital Nonlinearity Compensation. <i>Journal of Lightwave Technology</i> , 2018, 36, 695-702.	4.6	17
15	A Closed-Form Expression to Evaluate Nonlinear Interference in Raman-Amplified Links. <i>Journal of Lightwave Technology</i> , 2017, 35, 4316-4328.	4.6	15
16	The ISRS GN Model, an Efficient Tool in Modeling Ultra-Wideband Transmission in Point-to-Point and Network Scenarios. , 2018, , .		15
17	On the bandwidth dependent performance of split transmitter-receiver optical fiber nonlinearity compensation. <i>Optics Express</i> , 2017, 25, 4554.	3.4	13
18	Making intelligent topology design choices: understanding structural and physical property performance implications in optical networks [Invited]. <i>Journal of Optical Communications and Networking</i> , 2021, 13, D53.	4.8	13

#	ARTICLE	IF	CITATIONS
19	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
20	Relative impact of channel symbol rate on transmission capacity. Journal of Optical Communications and Networking, 2020, 12, B1.	4.8	10
21	The Benefits of Using the S-Band in Optical Fiber Communications and How to Get There. , 2020, , .		10
22	On the Impact of Fixed Point Hardware for Optical Fiber Nonlinearity Compensation Algorithms. Journal of Lightwave Technology, 2018, 36, 5016-5022.	4.6	8
23	Modelling the Delayed Nonlinear Fiber Response in Coherent Optical Communications. Journal of Lightwave Technology, 2021, 39, 1937-1952.	4.6	8
24	Intelligent design of optical networks: which topology features help maximise throughput in the nonlinear regime?. , 2020, , .		8
25	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
26	Overview and Comparison of Nonlinear Interference Modelling Approaches in Ultra-Wideband Optical Transmission Systems. , 2019, , .		5
27	Analytical Model for Transmission Performance of Single Mode Multicore Fibre with Nonlinearity Compensation. , 2019, , .		5
28	Capacity Benefits of Operation Over $\mathbf{C}+\mathbf{L}$ Band Elastic Optical Network in the Indian Network Scenario. , 2019, , .		3
29	Modeling of Fiber Nonlinearity in Wideband Transmission. , 2022, , .		3
30	Candidate Technologies for Ultra-wideband Nonlinear Optical Fibre Transmission System. , 2020, , .		2
31	Impact of Transceiver Subsystems on Digital Back Propagation Performance. , 2018, , .		1
32	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
33	Modeling the Delayed Nonlinear Fiber Response in Ultra-Wideband Transmission Systems. , 2021, , .		0