Fatih Yaman

List of Publications by Year
in descending order

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34	1,364	623734	794594
papers	citations	14 h-index	19 g-index

34	34	34	964
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Weight Pruning Techniques Towards Photonic Implementation of Nonlinear Impairment Compensation Using Neural Networks. Journal of Lightwave Technology, 2022, 40, 1273-1282.	4.6	2
2	A silicon photonicâ€“electronic neural network for fibre nonlinearity compensation. Nature Electronics, 2021, 4, 837-844.	26.0	110
3	Demonstration of photonic neural network for fiber nonlinearity compensation in long-haul transmission systems. , 2020, , .		26
4	Field and lab experimental demonstration of nonlinear impairment compensation using neural networks. Nature Communications, 2019, 10, 3033.	12.8	100
5	Nonlinearity Compensation in Modern Submarine Networks. , 2019, , .		1
6	Constellation design with geometric and probabilistic shaping. Optics Communications, 2018, 409, 7-12.	2.1	23
7	Capacity-Approaching Transmission Over 6375 km Using Hybrid Quasi-Single-Mode Fiber Spans. Journal of Lightwave Technology, 2017, 35, 481-487.	4.6	17
8	Quasi-Single-Mode Fiber Transmission for Optical Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 31-42.	2.9	18
9	50.962Tb/s over 11185 km Bi-Directional C+L Transmission using Optimized 32QAM. , 2017, , .		6
10	Optimized signal constellations for ultra-high-speed optical transport. Proceedings of SPIE, 2015, , .	0.8	1
11	Performance Study of 100-Gb/s Super-Nyquist QPSK and Nyquist 8QAM over 25-GHz Spacing. IEEE Photonics Technology Letters, 2015, 27, 1445-1448.	2.5	5
12	First Quasi-Single-Mode Transmission over Transoceanic Distance using Few-mode Fibers. , 2015, , .		22
13	Transoceanic Transmission of Dual-Carrier 400G DP-8QAM at 121.2km Span Length with EDFA-Only. , 2014, , .		4
14	Transoceanic Transmission of 40$,imes,$117.6 Gb/s PDM-OFDM-16QAM Over Hybrid Large-Core/Ultralow-Loss Fiber. Journal of Lightwave Technology, 2013, 31, 498-505.	4.6	15
15	30Tb/s C- and L-bands bidirectional transmission over 10,181km with 121km span length. Optics Express, 2013, 21, 14244.	3.4	22
16	Flexible Transponder Design Aided by Agile Binary Bit Encoder. Journal of Optical Communications and Networking, 2013, 5, 722.	4.8	1
17	Intra-channel XPM compensation for single-stage backward-propagation. , 2013, , .		3
18	Low Complexity Nonlinearity Compensation for 100G DP-QPSK Transmission over Legacy NZ-DSF Link with OOK channels. , 2012, , .		3

#	Article	IF	Citations
19	Mode-division multiplexed transmission with inline few-mode fiber amplifier. Optics Express, 2012, 20, 2668.	3.4	254
20	Next-generation 100 Gb/s undersea optical communications. , 2012, 50, s50-s57.		9
21	Nonlinearity compensation using very-low complexity backward propagation in dispersion managed links. , 2012, , .		7
22	Impact of Modal Crosstalk and Multi-Path Interference on Few-Mode Fiber Transmission. , 2012, , .		14
23	Interchannel nonlinear impairment compensation by advanced split-step method. Proceedings of SPIE, 2011, , .	0.8	0
24	Nonlinearity Compensation Using Digital Backward Propagation. , 2011, , .		0
25	Nonlinear Impairment Compensation for Polarization-Division Multiplexed WDM Transmission Using Digital Backward Propagation. IEEE Photonics Journal, 2010, 2, 816-832.	2.0	51
26	Silicon photonic crystal fiber. , 2010, , .		1
27	Polarization Demultiplexing by Independent Component Analysis. IEEE Photonics Technology Letters, 2010, 22, 805-807.	2.5	27
28	Long distance transmission in few-mode fibers. Optics Express, 2010, 18, 13250.	3.4	166
29	Efficient compensation of inter-channel nonlinear effects via digital backward propagation in WDM optical transmission. Optics Express, 2010, 18, 15144.	3.4	70
30	10 x 112Gb/s PDM-QPSK transmission over 5032 km in few-mode fibers. Optics Express, 2010, 18, 21342.	3.4	74
31	Coherent optical transmission for digital and analog applications. , 2009, , .		0
32	Electronic post-compensation of WDM transmission impairments using coherent detection and digital signal processing. Optics Express, 2008, 16, 880.	3.4	310
33	Control of FWM Phase-matching Condition Using the Brillouin Slow Light Effect in Fibers. , 2008, , .		1
34	Vectorial Modulational Instability in a Bismuth Fiber. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1