

Fatih Yaman

List of Publications by Year in descending order

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34
papers

1,364
citations

623734

14
h-index

794594

19
g-index

34
all docs

34
docs citations

34
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic post-compensation of WDM transmission impairments using coherent detection and digital signal processing. Optics Express, 2008, 16, 880.	3.4	310
2	Mode-division multiplexed transmission with inline few-mode fiber amplifier. Optics Express, 2012, 20, 2668.	3.4	254
3	Long distance transmission in few-mode fibers. Optics Express, 2010, 18, 13250.	3.4	166
4	A silicon photonic "electronic neural network for fibre nonlinearity compensation. Nature Electronics, 2021, 4, 837-844.	26.0	110
5	Field and lab experimental demonstration of nonlinear impairment compensation using neural networks. Nature Communications, 2019, 10, 3033.	12.8	100
6	10 x 112Gb/s PDM-QPSK transmission over 5032 km in few-mode fibers. Optics Express, 2010, 18, 21342.	3.4	74
7	Efficient compensation of inter-channel nonlinear effects via digital backward propagation in WDM optical transmission. Optics Express, 2010, 18, 15144.	3.4	70
8	Nonlinear Impairment Compensation for Polarization-Division Multiplexed WDM Transmission Using Digital Backward Propagation. IEEE Photonics Journal, 2010, 2, 816-832.	2.0	51
9	Polarization Demultiplexing by Independent Component Analysis. IEEE Photonics Technology Letters, 2010, 22, 805-807.	2.5	27
10	Demonstration of photonic neural network for fiber nonlinearity compensation in long-haul transmission systems. , 2020, , .		26
11	Constellation design with geometric and probabilistic shaping. Optics Communications, 2018, 409, 7-12.	2.1	23
12	30Tb/s C- and L-bands bidirectional transmission over 10,181km with 121km span length. Optics Express, 2013, 21, 14244.	3.4	22
13	First Quasi-Single-Mode Transmission over Transoceanic Distance using Few-mode Fibers. , 2015, , .		22
14	Quasi-Single-Mode Fiber Transmission for Optical Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 31-42.	2.9	18
15	Capacity-Approaching Transmission Over 6375 km Using Hybrid Quasi-Single-Mode Fiber Spans. Journal of Lightwave Technology, 2017, 35, 481-487.	4.6	17
16	Transoceanic Transmission of 40Tb/s, 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
17	Impact of Modal Crosstalk and Multi-Path Interference on Few-Mode Fiber Transmission. , 2012, , .		14
18	Next-generation 100 Gb/s undersea optical communications. , 2012, 50, s50-s57.		9

#	ARTICLE	IF	CITATIONS
19	Nonlinearity compensation using very-low complexity backward propagation in dispersion managed links. , 2012, , .		7
20	50.962Tb/s over 11185 km Bi-Directional C+L Transmission using Optimized 32QAM. , 2017, , .		6
21	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
22	Transoceanic Transmission of Dual-Carrier 400G DP-8QAM at 121.2km Span Length with EDFA-Only. , 2014, , .		4
23	Low Complexity Nonlinearity Compensation for 100G DP-QPSK Transmission over Legacy NZ-DSF Link with OOK channels. , 2012, , .		3
24	Intra-channel XPM compensation for single-stage backward-propagation. , 2013, , .		3
25	Weight Pruning Techniques Towards Photonic Implementation of Nonlinear Impairment Compensation Using Neural Networks. Journal of Lightwave Technology, 2022, 40, 1273-1282.	4.6	2
26	Vectorial Modulational Instability in a Bismuth Fiber. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
27	Control of FWM Phase-matching Condition Using the Brillouin Slow Light Effect in Fibers. , 2008, , .		1
28	Silicon photonic crystal fiber. , 2010, , .		1
29	Flexible Transponder Design Aided by Agile Binary Bit Encoder. Journal of Optical Communications and Networking, 2013, 5, 722.	4.8	1
30	Optimized signal constellations for ultra-high-speed optical transport. Proceedings of SPIE, 2015, , .	0.8	1
31	Nonlinearity Compensation in Modern Submarine Networks. , 2019, , .		1
32	Coherent optical transmission for digital and analog applications. , 2009, , .		0
33	Interchannel nonlinear impairment compensation by advanced split-step method. Proceedings of SPIE, 2011, , .	0.8	0
34	Nonlinearity Compensation Using Digital Backward Propagation. , 2011, , .		0