

# Nikola Alic

## List of Publications by Year in descending order

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95  
papers

2,675  
citations

249298

26  
h-index

206121

51  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of a Sub-GHz Flat-Top Comb-Based RF-Photonic Filter Enabled by Fourth-Order Dispersion Compensation. Journal of Lightwave Technology, 2020, 38, 1194-1201.	2.7	4
2	Compensation of Fourth-Order Dispersion Induced Distortion in Comb-Based Microwave Photonic Filters. , 2019, , .		0
3	Silicon Photonic Wavelength and Mode Selective Switch for WDM-MDM networks. , 2019, , .		4
4	Ultra-broadband multimode 3dB optical power splitter using an adiabatic coupler and a Y-branch. Optics Express, 2018, 26, 14800.	1.7	74
5	Channel cloning by multi-mode phase-sensitive parametric mixer. Optics Express, 2018, 26, 33376.	1.7	3
6	Detection of Fast Transient Events in a Noisy Background. Journal of Lightwave Technology, 2016, 34, 5669-5674.	2.7	11
7	Subnoise Signal Detection and Communication. Journal of Lightwave Technology, 2016, 34, 5214-5219.	2.7	11
8	Transmitter-Side Digital Back Propagation With Optical Injection-Locked Frequency Referenced Carriers. Journal of Lightwave Technology, 2016, 34, 3544-3549.	2.7	9
9	Comparison of One- and Three-Mode Phase-Sensitive Wavelength Multicasting. Journal of Lightwave Technology, 2016, 34, 2491-2499.	2.7	2
10	Cancellation of Nonlinear Impairments in Fiber Optic Transmission Systems. , 2016, , .		5
11	All optical wavelength multicaster and regenerator based on four-mode phase-sensitive parametric mixer. Optics Express, 2015, 23, 30956.	1.7	7
12	Ultrahigh Count Coherent WDM Channels Transmission Using Optical Parametric Comb-Based Frequency Synthesizer. Journal of Lightwave Technology, 2015, 33, 694-699.	2.7	115
13	Highly Linear Broadband Photonic-Assisted Q-Band ADC. Journal of Lightwave Technology, 2015, 33, 2256-2262.	2.7	39
14	Frequency-referenced nonlinearity compensation: The enabler for reach extension and capacity increase. , 2015, , .		2
15	Origin of Non-Reciprocal Response in Fiber Optic Parametric Amplifiers. Journal of Lightwave Technology, 2015, 33, 495-502.	2.7	4
16	Suppression of Inter-channel Higher Order Four Wave Mixing in Four-Mode Phase-Sensitive Parametric Wavelength Multicasting. Journal of Lightwave Technology, 2015, 33, 2324-2331.	2.7	3
17	Optical Parametric Multicasting Linearization Based on Distortion Correcting Tables. IEEE Photonics Technology Letters, 2015, 27, 1527-1530.	1.3	1
18	Cancellation of Nonlinear Impairments in Fiber Optic Transmission Systems. , 2015, , .		0

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19	Demonstration of local-oscillator phase-noise tolerant 40 GBaud/s coherent transmitter. , 2014, , .		0
20	Photonic RF-Channelized Receiver based on Wideband Parametric Mixers and Coherent Detection. , 2014, , .		3
21	All-optical switching in a highly efficient parametric fiber mixer: design study. Optics Express, 2014, 22, 23512.	1.7	6
22	Low-noise parametric frequency comb for continuous C-plus-L-band 16-QAM channels generation. Optics Express, 2014, 22, 6822.	1.7	69
23	Digital multi-channel stabilization of four-mode phase-sensitive parametric multicasting. Optics Express, 2014, 22, 18379.	1.7	105
24	Spectrally Equalized Frequency Comb Generation in Multistage Parametric Mixer With Nonlinear Pulse Shaping. Journal of Lightwave Technology, 2014, 32, 840-846.	2.7	119
25	Conversion Efficiency and Crosstalk Optimization in Four-mode Phase-Sensitive Multicasting Mixer by Vectorial Phase Manipulation. , 2014, , .		2
26	Dynamic reconfiguration of parametric frequency comb for superchannel and flex-grid transmitters. , 2014, , .		1
27	Frequency Combs in Telecommunications Applications. , 2014, , .		1
28	Wideband Parametric Frequency Comb as Coherent Optical Carrier. Journal of Lightwave Technology, 2013, 31, 3414-3419.	2.7	73
29	Phase-preserving parametric wavelength conversion to SWIR band in highly nonlinear dispersion stabilized fiber. Optics Express, 2013, 21, 11415.	1.7	11
30	Noise performance of phase-insensitive frequency multicasting in parametric mixer with finite dispersion. Optics Express, 2013, 21, 17659.	1.7	110
31	Nonlinear cross-talk mitigation in polychromatic parametric sampling gate. Optics Express, 2013, 21, 4145.	1.7	9
32	Long-Wavelength Photonic Circuits. Series in Optics and Optoelectronics, 2013, , 249-286.	0.0	0
33	Photonic preprocessor for analog-to-digital-converter using a cavity-less pulse source. Optics Express, 2012, 20, B419.	1.7	80
34	Spectral linewidth preservation in parametric frequency combs seeded by dual pumps. Optics Express, 2012, 20, 17610.	1.7	108
35	Broadband parametric multicasting via four-mode phase-sensitive interaction. Optics Express, 2012, 20, 19363.	1.7	78
36	Generation of wideband frequency combs by continuous-wave seeding of multistage mixers with synthesized dispersion. Optics Express, 2012, 20, 3331.	1.7	313

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37	Full characterization of self-phase-modulation based low-noise, cavity-less pulse source for photonic-assisted analog-to-digital conversion. Optics Express, 2012, 20, B110.	1.7	6
38	Tension-Optimized Highly Nonlinear Fiber for Parametric Applications. , 2012, , .		2
39	Pump-Noise Transfer Mitigation in Parametric Sampling Gates. IEEE Photonics Technology Letters, 2012, 24, 1469-1471.	1.3	2
40	Parametric sampling gate linearization by pump intensity modulation. , 2012, , .		1
41	Dispersion Characterization of Highly Nonlinear Fiber Over a 700-nm Band. IEEE Photonics Technology Letters, 2012, 24, 1021-1023.	1.3	49
42	Non-Coherent High Spectral Efficiency Long Haul Waveband Transmission. IEEE Photonics Technology Letters, 2012, 24, 113-115.	1.3	5
43	Mid-Infrared Wavelength Conversion in Silicon Waveguides Pumped by Silica-Fiber-Based Source. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 612-620.	1.9	8
44	Self-Phase-Modulation Based Low-Noise, Cavity-less Short Pulse Source For Photonic-Assisted ADC. , 2012, , .		0
45	Agile Optical Frequency Synthesis in Extra-Cavity Parametric Mixers. , 2012, , .		0
46	Laser Coherence Enhancement by Extra-Cavity Parametric Mixing. , 2012, , .		1
47	Agile Optical Frequency Synthesis in Dispersion-Engineered Parametric Mixers. , 2012, , .		0
48	Linewidth Preserved Broadband Parametric Comb Seeded by Two Injection-Locked Pumps. , 2012, , .		0
49	Generation and Characterization of Self-Phase-Modulation Based Cavity-Less Pulse Source. , 2012, , .		0
50	Laser Coherence Enhancement by Extra-Cavity Parametric Mixing. , 2012, , .		2
51	Ultrafast Clock Recovery and Sampling by Single Parametric Device. IEEE Photonics Technology Letters, 2011, 23, 191-193.	1.3	7
52	Simultaneous Wavelength-Swept Generation in NIR and SWIR Bands Over Combined 329-nm Band Using Swept-Pump Fiber Optical Parametric Oscillator. Journal of Lightwave Technology, 2011, 29, 410-416.	2.7	60
53	Transmission of 640-Cb/s RZ-OOK Channel Over 100-km SSMF by Wavelength-Transparent Conjugation. Journal of Lightwave Technology, 2011, 29, 516-523.	2.7	70
54	Wavelength Multicasting via Frequency Comb Generation in a Bandwidth-Enhanced Fiber Optical Parametric Mixer. Journal of Lightwave Technology, 2011, 29, 3515-3522.	2.7	60

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55	Widely-tunable parametric short-wave infrared transmitter for CO <sub>2</sub> trace detection. Optics Express, 2011, 19, 8173.	1.7	13
56	Third-order nonlinearity in silicon beyond 2350 nm. Applied Physics Letters, 2011, 99, .	1.5	33
57	640-Gb/s Transmitter and Self-Trackled Demultiplexing Receiver Using Single Parametric Gate. IEEE Photonics Technology Letters, 2011, 23, 507-509.	1.3	10
58	A 2 bit/s-Hz non-coherent transmission. , 2011, , .		0
59	Self-seeded 1-to-60 Multicasting in a Two-pump Parametric Mixer. , 2011, , .		3
60	Mid-infrared wavelength conversion in silicon waveguides using ultracompact telecom-band-derived pump source. Nature Photonics, 2010, 4, 561-564.	15.6	253
61	Self-phase tracked fiber-optical parametric sampling gate for 640-Gb/s OTDM de-multiplexing. , 2010, , .		1
62	Strict Localization of Nonlinear Interactions in Optical Fibers by Subsequent Brillouin Amplification and Attenuation. IEEE Photonics Technology Letters, 2010, 22, 170-172.	1.3	5
63	Low Distortion Multicasting of an Analog Signal by Self-Seeded Parametric Mixer. IEEE Photonics Technology Letters, 2010, 22, 332-334.	1.3	22
64	Phase noise in fiber-optic parametric amplifiers and converters and its impact on sensing and communication systems. Optics Express, 2010, 18, 21449.	1.7	14
65	Noise-induced nonlinear frequency chirping in $\chi^{(3)}$ nonlinear media. Optics Express, 2010, 18, 23413.	1.7	1
66	Joint Statistics and MLSD in Filtered Incoherent High-Speed Fiber-Optic Communications. Journal of Lightwave Technology, 2010, 28, 1564-1572.	2.7	10
67	High Resolution Measurement of Arbitrary- Dispersion Fibers: Dispersion Map Reconstruction Techniques. Journal of Lightwave Technology, 2010, , .	2.7	11
68	156-ps continuously tunable parametric delay line for a 40-Gb/s signal. Optics Express, 2009, 17, 11958.	1.7	30
69	Scalable Multicasting in One-Pump Parametric Amplifier. Journal of Lightwave Technology, 2009, 27, 356-363.	2.7	32
70	A New Class of High-Resolution Measurements of Arbitrary-Dispersion Fibers: Localization of Four-Photon Mixing Process. Journal of Lightwave Technology, 2009, 27, 364-375.	2.7	26
71	Maximum-Likelihood Detection and Constrained Coding on Optical Channels. Journal of Lightwave Technology, 2009, 27, 1469-1479.	2.7	1
72	Sampling of Multiple 320-Gb/s Channels by Single Parametric Gate. IEEE Photonics Technology Letters, 2009, 21, 796-798.	1.3	7

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73	720-ns Continuously Tunable Parametric Delay of a 10-Gb/s Optical Signal. IEEE Photonics Technology Letters, 2009, 21, 1250-1252.	1.3	4
74	Multicast Parametric Synchronous Sampling of 320-Gb/s Return-to-Zero Signal. IEEE Photonics Technology Letters, 2009, 21, 1612-1614.	1.3	70
75	Spatial Equalization of Zero-Dispersion Wavelength Profiles in Nonlinear Fibers. IEEE Photonics Technology Letters, 2009, 21, 1807-1809.	1.3	189
76	Pedestal-Free Pulse Source for High Data Rate Optical Time-Division Multiplexing Based on Fiber-Optical Parametric Processes. IEEE Journal of Quantum Electronics, 2009, 45, 1325-1330.	1.0	26
77	Two-Pump Parametric Optical Delays. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 681-690.	1.9	23
78	Multicast Parametric Synchronous Sampling. IEEE Photonics Technology Letters, 2008, 20, 1222-1224.	1.3	26
79	1-to-40 10-Gb/s Channel Multicasting and Amplification in Wideband Parametric Amplifier. IEEE Photonics Technology Letters, 2008, 20, 1417-1419.	1.3	6
80	Translation of Gbps Phase-Modulated Optical Signal From Near-Infrared to Visible Band. Journal of Lightwave Technology, 2008, 26, 131-137.	2.7	11
81	Synthesis of Equalized Broadband Parametric Gain by Localized Dispersion Mapping. IEEE Photonics Technology Letters, 2008, 20, 1971-1973.	1.3	17
82	Performance benefits of line coding in the context of direct and coherent detection. , 2008, , .		0
83	Experimental study of crosstalk in pump-modulated parametric multicasting device. , 2008, , .		2
84	Emerging Signal Processing Techniques in Optical Communications. , 2007, , .		0
85	Continuous-Wave Parametric Generation at Visible band in Photonic Crystal Fibers. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
86	Continuous-Wave Band Translation Between the Near-Infrared and Visible Spectral Ranges. Journal of Lightwave Technology, 2007, 25, 58-66.	2.7	28
87	1092 Channel 2-D Array Demultiplexer for Ultralarge Data Bandwidth. Journal of Lightwave Technology, 2007, 25, 719-725.	2.7	17
88	Modulation Coding for Optical Channels. LEOS Summer Topical Meeting, 2007, , .	0.0	0
89	Determination of Achievable Information Rates (AIRs) of IM/DD Systems and AIR Loss Due to Chromatic Dispersion and Quantization. IEEE Photonics Technology Letters, 2007, 19, 12-14.	1.3	10
90	Impact of Pump Phase-Modulation on the Bit-Error Rate in Fiber-Optical Parametric-Amplifier-Based Systems. IEEE Photonics Technology Letters, 2007, 19, 79-81.	1.3	8

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91	Experimental measurements of receiver design effect on sequence estimation performance. , 2006, , .		0
92	Experimental Determination of Achievable Information Rates for Single-Channel NRZ IM/DD High-Speed Optical Transmission. , 2006, , .		1
93	Receiver Design Tradeoffs in High-speed Equalized Links Based on Sequence Estimation. , 2006, , .		0
94	Time-domain waveform processing by chromatic dispersion for temporal shaping of optical pulses. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2427.	0.9	52
95	Signal Statistics and Maximum Likelihood Sequence Estimation in Intensity Modulated Fiber Optic Links Containing a Single Optical Pre-amplifier. Optics Express, 2005, 13, 4568.	1.7	58