

# Nikola Alic

## List of Publications by Year in descending order

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95  
papers

2,675  
citations

218677

26  
h-index

182427

51  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of wideband frequency combs by continuous-wave seeding of multistage mixers with synthesized dispersion. <i>Optics Express</i> , 2012, 20, 3331.	3.4	313
2	Mid-infrared wavelength conversion in silicon waveguides using ultracompact telecom-band-derived pump source. <i>Nature Photonics</i> , 2010, 4, 561-564.	31.4	253
3	Spatial Equalization of Zero-Dispersion Wavelength Profiles in Nonlinear Fibers. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1807-1809.	2.5	189
4	Spectrally Equalized Frequency Comb Generation in Multistage Parametric Mixer With Nonlinear Pulse Shaping. <i>Journal of Lightwave Technology</i> , 2014, 32, 840-846.	4.6	119
5	Ultrahigh Count Coherent WDM Channels Transmission Using Optical Parametric Comb-Based Frequency Synthesizer. <i>Journal of Lightwave Technology</i> , 2015, 33, 694-699.	4.6	115
6	Noise performance of phase-insensitive frequency multicasting in parametric mixer with finite dispersion. <i>Optics Express</i> , 2013, 21, 17659.	3.4	110
7	Spectral linewidth preservation in parametric frequency combs seeded by dual pumps. <i>Optics Express</i> , 2012, 20, 17610.	3.4	108
8	Digital multi-channel stabilization of four-mode phase-sensitive parametric multicasting. <i>Optics Express</i> , 2014, 22, 18379.	3.4	105
9	Photonic preprocessor for analog-to-digital-converter using a cavity-less pulse source. <i>Optics Express</i> , 2012, 20, B419.	3.4	80
10	Broadband parametric multicasting via four-mode phase-sensitive interaction. <i>Optics Express</i> , 2012, 20, 19363.	3.4	78
11	Ultra-broadband multimode 3dB optical power splitter using an adiabatic coupler and a Y-branch. <i>Optics Express</i> , 2018, 26, 14800.	3.4	74
12	Wideband Parametric Frequency Comb as Coherent Optical Carrier. <i>Journal of Lightwave Technology</i> , 2013, 31, 3414-3419.	4.6	73
13	Multicast Parametric Synchronous Sampling of 320-Gb/s Return-to-Zero Signal. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1612-1614.	2.5	70
14	Transmission of 640-Gb/s RZ-OOK Channel Over 100-km SSMF by Wavelength-Transparent Conjugation. <i>Journal of Lightwave Technology</i> , 2011, 29, 516-523.	4.6	70
15	Low-noise parametric frequency comb for continuous C-plus-L-band 16-QAM channels generation. <i>Optics Express</i> , 2014, 22, 6822.	3.4	69
16	Simultaneous Wavelength-Swept Generation in NIR and SWIR Bands Over Combined 329-nm Band Using Swept-Pump Fiber Optical Parametric Oscillator. <i>Journal of Lightwave Technology</i> , 2011, 29, 410-416.	4.6	60
17	Wavelength Multicasting via Frequency Comb Generation in a Bandwidth-Enhanced Fiber Optical Parametric Mixer. <i>Journal of Lightwave Technology</i> , 2011, 29, 3515-3522.	4.6	60
18	Signal Statistics and Maximum Likelihood Sequence Estimation in Intensity Modulated Fiber Optic Links Containing a Single Optical Pre-amplifier. <i>Optics Express</i> , 2005, 13, 4568.	3.4	58

#	ARTICLE	IF	CITATIONS
19	Time-domain waveform processing by chromatic dispersion for temporal shaping of optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 2427.	2.1	52
20	Dispersion Characterization of Highly Nonlinear Fiber Over a 700-nm Band. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1021-1023.	2.5	49
21	Highly Linear Broadband Photonic-Assisted Q-Band ADC. <i>Journal of Lightwave Technology</i> , 2015, 33, 2256-2262.	4.6	39
22	Third-order nonlinearity in silicon beyond 2350 nm. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	33
23	Scalable Multicasting in One-Pump Parametric Amplifier. <i>Journal of Lightwave Technology</i> , 2009, 27, 356-363.	4.6	32
24	156- $\hat{1}$ / <sub>4</sub> s continuously tunable parametric delay line for a 40-Gb/s signal. <i>Optics Express</i> , 2009, 17, 11958.	3.4	30
25	Continuous-Wave Band Translation Between the Near-Infrared and Visible Spectral Ranges. <i>Journal of Lightwave Technology</i> , 2007, 25, 58-66.	4.6	28
26	Multicast Parametric Synchronous Sampling. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1222-1224.	2.5	26
27	A New Class of High-Resolution Measurements of Arbitrary-Dispersion Fibers: Localization of Four-Photon Mixing Process. <i>Journal of Lightwave Technology</i> , 2009, 27, 364-375.	4.6	26
28	Pedestal-Free Pulse Source for High Data Rate Optical Time-Division Multiplexing Based on Fiber-Optical Parametric Processes. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1325-1330.	1.9	26
29	Two-Pump Parametric Optical Delays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 681-690.	2.9	23
30	Low Distortion Multicasting of an Analog Signal by Self-Seeded Parametric Mixer. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 332-334.	2.5	22
31	1092 Channel 2-D Array Demultiplexer for Ultralarge Data Bandwidth. <i>Journal of Lightwave Technology</i> , 2007, 25, 719-725.	4.6	17
32	Synthesis of Equalized Broadband Parametric Gain by Localized Dispersion Mapping. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1971-1973.	2.5	17
33	Phase noise in fiber-optic parametric amplifiers and converters and its impact on sensing and communication systems. <i>Optics Express</i> , 2010, 18, 21449.	3.4	14
34	Widely-tunable parametric short-wave infrared transmitter for CO <sub>2</sub> trace detection. <i>Optics Express</i> , 2011, 19, 8173.	3.4	13
35	Translation of Gbps Phase-Modulated Optical Signal From Near-Infrared to Visible Band. <i>Journal of Lightwave Technology</i> , 2008, 26, 131-137.	4.6	11
36	High Resolution Measurement of Arbitrary- Dispersion Fibers: Dispersion Map Reconstruction Techniques. <i>Journal of Lightwave Technology</i> , 2010, , .	4.6	11

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37	Phase-preserving parametric wavelength conversion to SWIR band in highly nonlinear dispersion stabilized fiber. <i>Optics Express</i> , 2013, 21, 11415.	3.4	11
38	Detection of Fast Transient Events in a Noisy Background. <i>Journal of Lightwave Technology</i> , 2016, 34, 5669-5674.	4.6	11
39	Subnoise Signal Detection and Communication. <i>Journal of Lightwave Technology</i> , 2016, 34, 5214-5219.	4.6	11
40	Determination of Achievable Information Rates (AIRs) of IM/DD Systems and AIR Loss Due to Chromatic Dispersion and Quantization. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 12-14.	2.5	10
41	Joint Statistics and MLSD in Filtered Incoherent High-Speed Fiber-Optic Communications. <i>Journal of Lightwave Technology</i> , 2010, 28, 1564-1572.	4.6	10
42	640-Gb/s Transmitter and Self-Tracker Demultiplexing Receiver Using Single Parametric Gate. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 507-509.	2.5	10
43	Nonlinear cross-talk mitigation in polychromatic parametric sampling gate. <i>Optics Express</i> , 2013, 21, 4145.	3.4	9
44	Transmitter-Side Digital Back Propagation With Optical Injection-Locked Frequency Referenced Carriers. <i>Journal of Lightwave Technology</i> , 2016, 34, 3544-3549.	4.6	9
45	Impact of Pump Phase-Modulation on the Bit-Error Rate in Fiber-Optical Parametric-Amplifier-Based Systems. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 79-81.	2.5	8
46	Mid-Infrared Wavelength Conversion in Silicon Waveguides Pumped by Silica-Fiber-Based Source. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 612-620.	2.9	8
47	Sampling of Multiple 320-Gb/s Channels by Single Parametric Gate. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 796-798.	2.5	7
48	Ultrafast Clock Recovery and Sampling by Single Parametric Device. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 191-193.	2.5	7
49	All optical wavelength multicaster and regenerator based on four-mode phase-sensitive parametric mixer. <i>Optics Express</i> , 2015, 23, 30956.	3.4	7
50	1-to-40 10-Gb/s Channel Multicasting and Amplification in Wideband Parametric Amplifier. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1417-1419.	2.5	6
51	Full characterization of self-phase-modulation based low-noise, cavity-less pulse source for photonic-assisted analog-to-digital conversion. <i>Optics Express</i> , 2012, 20, B110.	3.4	6
52	All-optical switching in a highly efficient parametric fiber mixer: design study. <i>Optics Express</i> , 2014, 22, 23512.	3.4	6
53	Strict Localization of Nonlinear Interactions in Optical Fibers by Subsequent Brillouin Amplification and Attenuation. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 170-172.	2.5	5
54	Non-Coherent High Spectral Efficiency Long Haul Waveband Transmission. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 113-115.	2.5	5

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55	Cancellation of Nonlinear Impairments in Fiber Optic Transmission Systems. , 2016, , .		5
56	720-ns Continuously Tunable Parametric Delay of a 10-Gb/s Optical Signal. IEEE Photonics Technology Letters, 2009, 21, 1250-1252.	2.5	4
57	Origin of Non-Reciprocal Response in Fiber Optic Parametric Amplifiers. Journal of Lightwave Technology, 2015, 33, 495-502.	4.6	4
58	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.	4.6	4
59	Silicon Photonic Wavelength and Mode Selective Switch for WDM-MDM networks. , 2019, , .		4
60	Photonic RF-Channelized Receiver based on Wideband Parametric Mixers and Coherent Detection. , 2014, , .		3
61	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.	4.6	3
62	Self-seeded 1-to-60 Multicasting in a Two-pump Parametric Mixer. , 2011, , .		3
63	Channel cloning by multi-mode phase-sensitive parametric mixer. Optics Express, 2018, 26, 33376.	3.4	3
64	Experimental study of crosstalk in pump-modulated parametric multicasting device. , 2008, , .		2
65	Tension-Optimized Highly Nonlinear Fiber for Parametric Applications. , 2012, , .		2
66	Pump-Noise Transfer Mitigation in Parametric Sampling Gates. IEEE Photonics Technology Letters, 2012, 24, 1469-1471.	2.5	2
67	Conversion Efficiency and Crosstalk Optimization in Four-mode Phase-Sensitive Multicasting Mixer by Vectorial Phase Manipulation. , 2014, , .		2
68	Frequency-referenced nonlinearity compensation: The enabler for reach extension and capacity increase. , 2015, , .		2
69	Comparison of One- and Three-Mode Phase-Sensitive Wavelength Multicasting. Journal of Lightwave Technology, 2016, 34, 2491-2499.	4.6	2
70	Laser Coherence Enhancement by Extra-Cavity Parametric Mixing. , 2012, , .		2
71	Experimental Determination of Achievable Information Rates for Single-Channel NRZ IM/DD High-Speed Optical Transmission. , 2006, , .		1
72	Maximum-Likelihood Detection and Constrained Coding on Optical Channels. Journal of Lightwave Technology, 2009, 27, 1469-1479.	4.6	1

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73	Self-phase tracked fiber-optical parametric sampling gate for 640-Gb/s OTDM de-multiplexing. , 2010, , .		1
74	Noise-induced nonlinear frequency chirping in $\chi^{(3)}$ nonlinear media. Optics Express, 2010, 18, 23413.	3.4	1
75	Parametric sampling gate linearization by pump intensity modulation. , 2012, , .		1
76	Dynamic reconfiguration of parametric frequency comb for superchannel and flex-grid transmitters. , 2014, , .		1
77	Optical Parametric Multicasting Linearization Based on Distortion Correcting Tables. IEEE Photonics Technology Letters, 2015, 27, 1527-1530.	2.5	1
78	Laser Coherence Enhancement by Extra-Cavity Parametric Mixing. , 2012, , .		1
79	Frequency Combs in Telecommunications Applications. , 2014, , .		1
80	Experimental measurements of receiver design effect on sequence estimation performance. , 2006, , .		0
81	Emerging Signal Processing Techniques in Optical Communications. , 2007, , .		0
82	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
83	Modulation Coding for Optical Channels. LEOS Summer Topical Meeting, 2007, , .	0.0	0
84	Performance benefits of line coding in the context of direct and coherent detection. , 2008, , .		0
85	A 2 bit/s-Hz non-coherent transmission. , 2011, , .		0
86	Long-Wavelength Photonic Circuits. Series in Optics and Optoelectronics, 2013, , 249-286.	0.0	0
87	Demonstration of local-oscillator phase-noise tolerant 40 GBaud/s coherent transmitter. , 2014, , .		0
88	Receiver Design Tradeoffs in High-speed Equalized Links Based on Sequence Estimation. , 2006, , .		0
89	Self-Phase-Modulation Based Low-Noise, Cavity-less Short Pulse Source For Photonic-Assisted ADC. , 2012, , .		0
90	Agile Optical Frequency Synthesis in Extra-Cavity Parametric Mixers. , 2012, , .		0

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91	Agile Optical Frequency Synthesis in Dispersion-Engineered Parametric Mixers. , 2012, , .		0
92	Linewidth Preserved Broadband Parametric Comb Seeded by Two Injection-Locked Pumps. , 2012, , .		0
93	Generation and Characterization of Self-Phase-Modulation Based Cavity-Less Pulse Source. , 2012, , .		0
94	Cancellation of Nonlinear Impairments in Fiber Optic Transmission Systems. , 2015, , .		0
95	Compensation of Fourth-Order Dispersion Induced Distortion in Comb-Based Microwave Photonic Filters. , 2019, , .		0