

Michal Karpinski

List of Publications by Year in descending order

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57
docs citations

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867
citing authors

#	ARTICLE	IF	CITATIONS
1	Bandwidth manipulation of quantum light by an electro-optic time lens. <i>Nature Photonics</i> , 2017, 11, 53-57.	31.4	113
2	Hologram of a single photon. <i>Nature Photonics</i> , 2016, 10, 576-579.	31.4	78
3	Spectral Shearing of Quantum Light Pulses by Electro-Optic Phase Modulation. <i>Physical Review Letters</i> , 2017, 118, 023601.	7.8	57
4	Pulsed single-photon spectrometer by frequency-to-time mapping using chirped fiber Bragg gratings. <i>Optics Express</i> , 2017, 25, 12804.	3.4	47
5	Shot-by-shot imaging of Hongâ€“Ouâ€“Mandel interference with an intensified sCMOS camera. <i>Optics Letters</i> , 2015, 40, 1540.	3.3	45
6	Measuring the Single-Photon Temporal-Spectral Wave Function. <i>Physical Review Letters</i> , 2018, 121, 083602.	7.8	43
7	Experimental characterization of three-wave mixing in a multimode nonlinear KTiOPO4 waveguide. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	35
8	Local mapping of detector response for reliable quantum state estimation. <i>Nature Communications</i> , 2014, 5, 4332.	12.8	32
9	Quantum Limits in Optical Communications. <i>Journal of Lightwave Technology</i> , 2020, 38, 2741-2754.	4.6	32
10	Mode engineering for realistic quantum-enhanced interferometry. <i>Nature Communications</i> , 2016, 7, 11411.	12.8	31
11	Fiber-optic realization of anisotropic depolarizing quantum channels. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 668.	2.1	22
12	Large-scale spectral bandwidth compression by complex electro-optic temporal phase modulation. <i>Optics Express</i> , 2018, 26, 31307.	3.4	22
13	Quantum mechanical which-way experiment with an internal degree of freedom. <i>Nature Communications</i> , 2013, 4, 2594.	12.8	19
14	Experimental Extraction of Secure Correlations from a Noisy Private State. <i>Physical Review Letters</i> , 2011, 106, 030501.	7.8	17
15	Dispersion-based control of modal characteristics for parametric down-conversion in a multimode waveguide. <i>Optics Letters</i> , 2012, 37, 878.	3.3	17
16	Waveguide fabrication in KDP crystals with femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 831-836.	2.3	17
17	Control and Measurement of Quantum Light Pulses for Quantum Information Science and Technology. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000150.	3.9	16
18	High-visibility nonclassical interference of photon pairs generated in a multimode nonlinear waveguide. <i>Optics Express</i> , 2014, 22, 8624.	3.4	15

#	ARTICLE	IF	CITATIONS
19	Pure Single Photons From Scalable Frequency Multiplexing. <i>Physical Review Applied</i> , 2020, 14, .	3.8	15
20	Experimental single-photon pulse characterization by electro-optic shearing interferometry. <i>Physical Review A</i> , 2018, 98, .	2.5	14
21	Characterization of conditional state-engineering quantum processes by coherent state quantum process tomography. <i>New Journal of Physics</i> , 2015, 17, 033041.	2.9	12
22	A Two-Step Guided Waves Based Damage Localization Technique Using Optical Fiber Sensors. <i>Sensors</i> , 2020, 20, 5804.	3.8	12
23	Photon coincidences in spontaneous parametric down-converted radiation excited by a blue LED in bulk LiIO ₃ crystal. <i>Optics Express</i> , 2011, 19, 10351.	3.4	11
24	Aperiodic electro-optic time lens for spectral manipulation of single-photon pulses. <i>Applied Physics Letters</i> , 2020, 116, 234003.	3.3	11
25	Entanglement swapping for generation of heralded time-frequency-entangled photon pairs. <i>Physical Review A</i> , 2018, 98, .	2.5	10
26	Generation of higher-dimensional modal entanglement using a three-waveguide directional coupler. <i>Physical Review A</i> , 2015, 91, .	2.5	8
27	Actuator placement optimization for guided waves based structural health monitoring using fibre Bragg grating sensors. <i>Smart Materials and Structures</i> , 2021, 30, 125011.	3.5	8
28	Experimental generation of complex noisy photonic entanglement. <i>Laser Physics</i> , 2013, 23, 025204.	1.2	7
29	Visibility-Based Hypothesis Testing Using Higher-Order Optical Interference. <i>Physical Review Letters</i> , 2018, 120, 110502.	7.8	7
30	Scheme for on-chip verification of transverse mode entanglement using the electro-optic effect. <i>Optics Express</i> , 2015, 23, 33087.	3.4	5
31	Generation and characterization of discrete spatial entanglement in multimode nonlinear waveguides. <i>Physical Review A</i> , 2017, 95, .	2.5	4
32	Generation of spatially pure photon pairs in a multimode nonlinear waveguide using intermodal dispersion. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
33	Quantum and semiclassical polarization correlations. <i>Optics Communications</i> , 2010, 283, 713-718.	2.1	2
34	Measurement of radio-frequency temporal phase modulation using spectral interferometry. <i>Journal of Modern Optics</i> , 2018, 65, 262-267.	1.3	1
35	Shaking the phase of light. <i>Nature Photonics</i> , 2019, 13, 306-308.	31.4	1
36	Quantum State Manipulation of Single-Photon Wave Packets. , 2014, , .		1

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37	Nonlinear Waveguide Source of Entangled Photon Pairs in Single Spatial Modes. , 2011, , .		1
38	Dispersion-based Control of Spatial Modes for Parametric Down-conversion in a Multimode Waveguide. , 2012, , .		0
39	Characterisation of the spatial purity of photon pairs generated in a multimode non-linear waveguide. , 2013, , .		0
40	Engineering Parametric Down-conversion in Multimode Nonlinear Waveguides. , 2014, , .		0
41	Demonstration of high-visibility two-photon interference with a multimode waveguide source. , 2014, , .		0
42	Coherent conversion of sub-GHz optical pulse bandwidths for hybrid quantum networks. , 2017, , .		0
43	Frequency-multiplexed single-photon sources using electro-optic frequency translation. , 2017, , .		0
44	Quantum fingerprinting without a shared phase reference. , 2017, , .		0
45	Holographic measurement of single photon spatial wavefunction. , 2017, , .		0
46	Engineering the spectral and temporal properties of a GHz-bandwidth heralded single-photon source interfaced with an on-demand, broadband quantum memory. Journal of Modern Optics, 2018, 65, 1668-1679.	1.3	0
47	Application of ellipse and hyperbola methods for guided waves based structural health monitoring using fiber Bragg grating sensors. , 2021, , .		0
48	Experimental security analysis a four-photon private state. , 2011, , .		0
49	Quantum Process Estimation with an Unknown Detector. , 2014, , .		0
50	Higher Dimensional Modal Entanglement Using Three Waveguide Directional Coupler. , 2014, , .		0
51	Quantum Process Estimation with Unknown Measurements. , 2015, , .		0
52	Single-Photon Temporal Wave Function Measurement via Electro-Optic Spectral Shearing Interferometry. , 2016, , .		0
53	Electro-Optic Temporal Optical Systems for Spectral Shaping of Quantum Light. , 2018, , .		0
54	Efficient interfacing ultrashort and nanosecond single-photon pulses. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Spectral manipulation of telecom single photons by aperiodic electro-optic time-lensing system. , 2019, , .		0
56	Large-Scale Spectral Bandwidth Modification of Quantum Light Pulses. , 2020, , .		0
57	Large-scale spectral bandwidth compression of telecom single-photon pulses. , 2020, , .		0