

Christof Eigner

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

528
citations

759233

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41
all docs

41
docs citations

41
times ranked

653
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryogenic integrated spontaneous parametric down-conversion. <i>Optica</i> , 2022, 9, 108.	9.3	6
2	Broadband optical Ta_2O_5 antennas for directional emission of light. <i>Optics Express</i> , 2022, 30, 19288.	3.4	5
3	Cryogenic electro-optic modulation in titanium in-diffused lithium niobate waveguides. <i>JPhys Photonics</i> , 2022, 4, 034004.	4.6	6
4	Waveguide resonator with an integrated phase modulator for second harmonic generation. <i>Optics Express</i> , 2021, 29, 1991.	3.4	5
5	Waveguide Resonators for Optical Squeezing. , 2021, , .		0
6	Cryogenic Second-Harmonic Generation in Periodically Poled Lithium Niobate Waveguides. <i>Physical Review Applied</i> , 2021, 15, .	3.8	11
7	Optical readout of a superconducting single photon detector with a cryogenic modulator. , 2021, , .		1
8	Cryogenic Parametric Down-Conversion in Titanium In-Diffused Lithium Niobate Waveguides. , 2021, , .		0
9	Waveguide resonators as squeezed light sources. , 2021, , .		0
10	Improved non-linear devices for quantum applications. <i>New Journal of Physics</i> , 2021, 23, 063082.	2.9	4
11	Integrated superconducting nanowire single-photon detectors on titanium in-diffused lithium niobate waveguides. <i>JPhys Photonics</i> , 2021, 3, 034022.	4.6	5
12	Non-Invasive Visualization of Ferroelectric Domain Structures on the Non-Polar γ -Surface of $KTiOPO_4$ via Raman Imaging. <i>Crystals</i> , 2021, 11, 1086.	2.2	2
13	Pulse shaping using dispersion-engineered difference frequency generation. <i>Physical Review A</i> , 2020, 101, .	2.5	9
14	Free and defect-bound (bi)polarons in $LiNbO_3$. Atomic structure and spectroscopic signatures from <i>ab initio</i> calculations. <i>Physical Review Research</i> , 2020, 2, .	3.6	11
15	Counter-propagating photon pair generation in a nonlinear waveguide. <i>Optics Express</i> , 2020, 28, 3215.	3.4	26
16	Characterisation of width-dependent diffusion dynamics in rubidium-exchanged KTP waveguides. <i>Optics Express</i> , 2020, 28, 24353.	3.4	9
17	Spatially single mode photon pair source at 800 nm in periodically poled Rubidium exchanged KTP waveguides. <i>Optics Express</i> , 2020, 28, 32925.	3.4	7
18	Cryogenic electro-optic polarisation conversion in titanium in-diffused lithium niobate waveguides. <i>Optics Express</i> , 2020, 28, 28961.	3.4	23

#	ARTICLE	IF	CITATIONS
19	Electro-optic polarisation conversion at 0.8 K in titanium in-diffused lithium niobate waveguides. , 2020, , .		2
20	Understanding gray track formation in KTP: Ti3+ centers studied from first principles. Physical Review Materials, 2020, 4, .	2.4	4
21	Scalable Generation of Multi-Photon GHZ States. , 2020, , .		0
22	Nonlinear integrated quantum electro-optic circuits. Science Advances, 2019, 5, eaat1451.	10.3	65
23	Engineering integrated photon pair sources and multiplexed detectors (Conference Presentation). , 2019, , .		0
24	Streak camera imaging of single photons at telecom wavelength. Applied Physics Letters, 2018, 112, 031110.	3.3	6
25	High-power waveguide resonator second harmonic device with external conversion efficiency up to 75%. Journal of Optics (United Kingdom), 2018, 20, 065501.	2.2	8
26	Heralded generation of high-purity ultrashort single photons in programmable temporal shapes. Optics Express, 2018, 26, 2764.	3.4	42
27	Fabrication of low-loss Rb-exchanged ridge waveguides in z-cut KTiOPO ₄ . Optical Materials Express, 2018, 8, 82.	3.0	16
28	Imaging of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:msup}>\langle \text{mml:mrow}>\langle \text{mml:mn}>180\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:mo}>\hat{\alpha}^{\sim} \text{ferroelectric domain walls in uniaxial ferroelectrics by confocal Raman spectroscopy: Unraveling the contrast mechanism. Physical Review Materials, 2018, 2, .$	2.4	23
29	Monolithically Integrated Hong-Ou-Mandel Experiment in LiNbO ₃ . , 2018, , .		1
30	Periodically poled ridge waveguides in KTP for second harmonic generation in the UV regime. Optics Express, 2018, 26, 28827.	3.4	16
31	High-performance source of spectrally pure, polarization entangled photon pairs based on hybrid integrated-bulk optics. Optics Express, 2018, 26, 32475.	3.4	41
32	Engineering integrated sources of entangled photon pairs. , 2018, , .		0
33	Highly efficient frequency conversion with bandwidth compression of quantum light. Nature Communications, 2017, 8, 14288.	12.8	70
34	Waveguide Cavity Resonator as a Source of Optical Squeezing. Physical Review Applied, 2017, 7, .	3.8	37
35	Fast time-domain measurements on telecom single photons. Quantum Science and Technology, 2017, 2, 034012.	5.8	19
36	A two-channel, spectrally degenerate polarization entangled source on chip. Npj Quantum Information, 2017, 3, .	6.7	36

#	ARTICLE	IF	CITATIONS
37	Quantum Communication with Temporal Modes of Pulsed Light. , 2017, , .		1
38	A monolithic, doubly-resonant parametric down-conversion source for Caesium Raman memories. , 2017, , .		0
39	Highly efficient frequency conversion with bandwidth compression of quantum light. , 2017, , .		0
40	Highly efficient frequency conversion with bandwidth compression of quantum light. , 2017, , .		0
41	Identification of ferroelectric domain structure sensitive phonon modes in potassium titanyl phosphate: A fundamental study. Journal of Applied Physics, 2016, 119, 044103.	2.5	11