Christof Eigner

List of Publications by Year
in descending order

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41 papers	528 citations	759233 12 h-index	677142 22 g-index
41 all docs	41 docs citations	41 times ranked	653 citing authors

#	Article	IF	Citations
1	Highly efficient frequency conversion with bandwidth compression of quantum light. Nature Communications, 2017, 8, 14288.	12.8	70
2	Nonlinear integrated quantum electro-optic circuits. Science Advances, 2019, 5, eaat1451.	10.3	65
3	Heralded generation of high-purity ultrashort single photons in programmable temporal shapes. Optics Express, 2018, 26, 2764.	3.4	42
4	High-performance source of spectrally pure, polarization entangled photon pairs based on hybrid integrated-bulk optics. Optics Express, 2018, 26, 32475.	3.4	41
5	Waveguide Cavity Resonator as a Source of Optical Squeezing. Physical Review Applied, 2017, 7, .	3.8	37
6	A two-channel, spectrally degenerate polarization entangled source on chip. Npj Quantum Information, 2017, 3, .	6.7	36
7	Counter-propagating photon pair generation in a nonlinear waveguide. Optics Express, 2020, 28, 3215.	3.4	26
8	Imaging of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mn>180</mml:mn></mml:mrow><mml:mo>â˜ ferroelectric domain walls in uniaxial ferroelectrics by confocal Raman spectroscopy: Unraveling the contrast mechanism. Physical Review Materials, 2018, 2, .	2.4	23
9	Cryogenic electro-optic polarisation conversion in titanium in-diffused lithium niobate waveguides. Optics Express, 2020, 28, 28961.	3.4	23
10	Fast time-domain measurements on telecom single photons. Quantum Science and Technology, 2017, 2, 034012.	5.8	19
11	Fabrication of low-loss Rb-exchanged ridge waveguides in z-cut KTiOPO_4. Optical Materials Express, 2018, 8, 82.	3.0	16
12	Periodically poled ridge waveguides in KTP for second harmonic generation in the UV regime. Optics Express, 2018, 26, 28827.	3.4	16
13	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
14	Cryogenic Second-Harmonic Generation in Periodically Poled Lithium Niobate Waveguides. Physical Review Applied, 2021, 15, .	3.8	11
15	Free and defect-bound (bi)polarons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiNbO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Atomic structure and spectroscopic signatures fromab initiocalculations. Physical Review Research, 2020, 2, .	3.6	11
16	Pulse shaping using dispersion-engineered difference frequency generation. Physical Review A, 2020, 101, .	2.5	9
17	Characterisation of width-dependent diffusion dynamics in rubidium-exchanged KTP waveguides. Optics Express, 2020, 28, 24353.	3.4	9
18	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

#	Article	IF	Citations
19	Spatially single mode photon pair source at 800 nm in periodically poled Rubidium exchanged KTP waveguides. Optics Express, 2020, 28, 32925.	3.4	7
20	Streak camera imaging of single photons at telecom wavelength. Applied Physics Letters, 2018, 112, 031110.	3.3	6
21	Cryogenic integrated spontaneous parametric down-conversion. Optica, 2022, 9, 108.	9.3	6
22	Cryogenic electro-optic modulation in titanium in-diffused lithium niobate waveguides. JPhys Photonics, 2022, 4, 034004.	4.6	6
23	Waveguide resonator with an integrated phase modulator for second harmonic generation. Optics Express, 2021, 29, 1991.	3.4	5
24	Integrated superconducting nanowire single-photon detectors on titanium in-diffused lithium niobate waveguides. JPhys Photonics, 2021, 3, 034022.	4.6	5
25	Broadband optical Ta₂O₅ antennas for directional emission of light. Optics Express, 2022, 30, 19288.	3.4	5
26	Improved non-linear devices for quantum applications. New Journal of Physics, 2021, 23, 063082.	2.9	4
27	Understanding gray track formation in KTP: Ti3+ centers studied from first principles. Physical Review Materials, 2020, 4, .	2.4	4
28	Non-Invasive Visualization of Ferroelectric Domain Structures on the Non-Polar y-Surface of KTiOPO4 via Raman Imaging. Crystals, 2021, 11, 1086.	2.2	2
29	Electro-optic polarisation conversion at 0.8 K in titanium in-diffused lithium niobate waveguides. , 2020, , .		2
30	Optical readout of a superconducting single photon detector with a cryogenic modulator. , 2021, , .		1
31	Quantum Communication with Temporal Modes of Pulsed Light. , 2017, , .		1
32	Monolithically Integrated Hong-Ou-Mandel Experiment in LiNbO3. , 2018, , .		1
33	Waveguide Resonators for Optical Squeezing. , 2021, , .		0
34	Cryogenic Parametric Down-Conversion in Titanium In-Diffused Lithium Niobate Waveguides. , 2021, , .		0
35	Waveguide resonators as squeezed light sources. , 2021, , .		0
36	A monolithic, doubly-resonant parametric down-conversion source for Caesium Raman memories. , 2017, , .		0

#	Article	IF	Citations
37	Highly efficient frequency conversion with bandwidth compression of quantum light. , 2017, , .		0
38	Highly efficient frequency conversion with bandwidth compression of quantum light. , 2017, , .		0
39	Engineering integrated sources of entangled photon pairs. , 2018, , .		0
40	Engineering integrated photon pair sources and multiplexed detectors (Conference Presentation). , 2019, , .		0
41	Scalable Generation of Multi-Photon GHZ States. , 2020, , .		0