Michael RÃ¼sing

List of Publications by Year
in descending order

32 papers	725 citations	687363 13 h-index	526287 27 g-index
32 all docs	32 docs citations	32 times ranked	609 citing authors

#	Article	IF	Citations
1	High Quality Entangled Photon Pair Generation in Periodically Poled Thin-Film Lithium Niobate Waveguides. Physical Review Letters, 2020, 124, 163603.	7.8	167
2	Raman scattering efficiency in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiTaO</mml:mi><mml:mn>3</mml:mn></mml:msub></m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiNbO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2015, 91, .	3.2	94
3	Achieving beyond-100-GHz large-signal modulation bandwidth in hybrid silicon photonics Mach Zehnder modulators using thin film lithium niobate. APL Photonics, 2019, 4, .	5.7	63
4	Shallow-etched thin-film lithium niobate waveguides for highly-efficient second-harmonic generation. Optics Express, 2020, 28, 19669.	3.4	58
5	Periodic domain inversion in x-cut single-crystal lithium niobate thin film. Applied Physics Letters, 2016, 108, .	3.3	52
6	Toward 3D Integrated Photonics Including Lithium Niobate Thin Films: A Bridge Between Electronics, Radio Frequency, and Optical Technology. IEEE Nanotechnology Magazine, 2019, 13, 18-33.	1.3	37
7	Poling thin-film x-cut lithium niobate for quasi-phase matching with sub-micrometer periodicity. Journal of Applied Physics, 2020, 127, .	2.5	35
8	Vibrational properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LiNb</mml:mi><mml:mrow><mml:mn>1</m mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>mixed crystals. Physical Review B, 2016, 93, .	3.2	26
9	Second harmonic microscopy of poled x-cut thin film lithium niobate: Understanding the contrast mechanism. Journal of Applied Physics, 2019, 126, 114105.	2.5	24
10	â€œSeeing Is Believingâ€â€"In-Depth Analysis by Co-Imaging of Periodically-Poled X-Cut Lithium Niobate Thin Films. Crystals, 2021, 11, 288.	2.2	23
11	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
12	Optical diagnostic methods for monitoring the poling of thin-film lithium niobate waveguides. Optics Express, 2019, 27, 12025.	3.4	15
13	Nonlinear focal mapping of ferroelectric domain walls in LiNbO3: Analysis of the SHG microscopy contrast mechanism. Journal of Applied Physics, 2020, 128, 234102.	2.5	14
14	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
15	Quantifying the coherent interaction length of second-harmonic microscopy in lithium niobate confined nanostructures. Journal of Applied Physics, 2021, 130, .	2.5	10
16	Resourceâ€Efficient Lowâ€Temperature Synthesis of Microcrystalline Pb 2 B 5 O 9 X (X = Cl, Br) for Surfaces Studies by Optical Second Harmonic Generation. Small, 2020, 16, 2000857.	10.0	9
17	Potassium Ion Conductivity in the Cubic Labyrinth of a Piezoelectric, Antiferromagnetic Oxoferrate(III) Tellurate(VI). Chemistry - A European Journal, 2021, 27, 14299-14306.	3.3	9
18	Characterisation of width-dependent diffusion dynamics in rubidium-exchanged KTP waveguides. Optics Express, 2020, 28, 24353.	3.4	9

#	Article	IF	Citations
19	Vibrational Fingerprints of LiNbO₃-LiTaO₃Mixed Crystals. Ferroelectrics, 2013, 447, 63-68.	0.6	7
20	Tricyanidoferrates(âˆ’IV) and Ruthenates(âˆ’IV) with Nonâ€Innocent Cyanido Ligands. Angewandte Chemie - International Edition, 2021, 60, 15879-15885.	13.8	7
21	Broadband coherent anti-Stokes Raman scattering for crystalline materials. Physical Review B, 2021, 104, .	3.2	6
22	High-speed hyperspectral imaging of ferroelectric domain walls using broadband coherent anti-Stokes Raman scattering. Applied Physics Letters, 2022, 120, .	3.3	6
23	Joint Raman spectroscopy and HRXRD investigation of cubic gallium nitride layers grown on 3C-SiC. Physica Status Solidi (B): Basic Research, 2016, 253, 778-782.	1.5	4
24	Impact of carbon-ion implantation on the nonlinear optical susceptibility of LiNbO_3. Optics Express, 2017, 25, 21444.	3.4	4
25	Quantifying the refractive index of ferroelectric domain walls in periodically poled LiNbO3 single crystals by polarization-sensitive optical coherence tomography. Optics Express, 2021, 29, 33615.	3.4	3
26	Nanoscale Conductive Sheets in Ferroelectric BaTiO₃: Large Hall Electron Mobilities at Head-to-Head Domain Walls. ACS Applied Nano Materials, 0, , .	5.0	3
27	Tricyanidoferrate(âˆ’IV) und â€ruthenate(âˆ’IV) mit redoxâ€aktiven Cyanidoâ€Liganden. Angewandte Chemie, 2021, 133, 16015-16021.	2.0	2
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	Turn all the lights off: Bright- and dark-field second-harmonic microscopy to select contrast mechanisms for ferroelectric domain walls. Journal of Applied Physics, 2022, 131, 244102.	2.5	2
30	Photoconduction of Polar and Nonpolar Cuts of Undoped Sr0.61Ba0.39Nb2O6 Single Crystals. Crystals, 2021, 11, 780.	2.2	0
31	Brillouin and Raman imaging of domain walls in periodically-poled 5%-MgO:LiNbOâ‚ƒ. Optics Express, 2022, 30, 5051-5062.	3.4	0
32	Second-harmonic microscopy in optically confining nanostructures. , 2021, , .		0