

# Michael RÃ¼sing

## List of Publications by Year in descending order

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32  
papers

725  
citations

687363

13  
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526287

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brillouin and Raman imaging of domain walls in periodically-poled 5%-MgO:LiNbO <sub>3</sub> . Optics Express, 2022, 30, 5051-5062.	3.4	0
2	High-speed hyperspectral imaging of ferroelectric domain walls using broadband coherent anti-Stokes Raman scattering. Applied Physics Letters, 2022, 120, .	3.3	6
3	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
4	“Seeing Is Believing” In-Depth Analysis by Co-Imaging of Periodically-Poled X-Cut Lithium Niobate Thin Films. Crystals, 2021, 11, 288.	2.2	23
5	Tricyanidoferrate(IV) und Ruthenate(IV) mit redoxaktiven Cyanidoliganden. Angewandte Chemie, 2021, 133, 16015-16021.	2.0	2
6	Tricyanidoferrates(IV) and Ruthenates(IV) with Noninnocent Cyanido Ligands. Angewandte Chemie - International Edition, 2021, 60, 15879-15885.	13.8	7
7	Photoconduction of Polar and Nonpolar Cuts of Undoped Sr <sub>0.61</sub> Ba <sub>0.39</sub> Nb <sub>2</sub> O <sub>6</sub> Single Crystals. Crystals, 2021, 11, 780.	2.2	0
8	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
9	Non-Invasive Visualization of Ferroelectric Domain Structures on the Non-Polar $\gamma$ -Surface of KTiOPO <sub>4</sub> via Raman Imaging. Crystals, 2021, 11, 1086.	2.2	2
10	Quantifying the refractive index of ferroelectric domain walls in periodically poled LiNbO <sub>3</sub> single crystals by polarization-sensitive optical coherence tomography. Optics Express, 2021, 29, 33615.	3.4	3
11	Quantifying the coherent interaction length of second-harmonic microscopy in lithium niobate confined nanostructures. Journal of Applied Physics, 2021, 130, .	2.5	10
12	Second-harmonic microscopy in optically confining nanostructures. , 2021, , .		0
13	Broadband coherent anti-Stokes Raman scattering for crystalline materials. Physical Review B, 2021, 104, .	3.2	6
14	Nonlinear focal mapping of ferroelectric domain walls in LiNbO <sub>3</sub> : Analysis of the SHG microscopy contrast mechanism. Journal of Applied Physics, 2020, 128, 234102.	2.5	14
15	Resource-Efficient Low-Temperature Synthesis of Microcrystalline Pb <sub>2</sub> B <sub>5</sub> O <sub>9</sub> X (X = Cl, Br) for Surfaces Studies by Optical Second Harmonic Generation. Small, 2020, 16, 2000857.	10.0	9
16	Poling thin-film x-cut lithium niobate for quasi-phase matching with sub-micrometer periodicity. Journal of Applied Physics, 2020, 127, .	2.5	35
17	High Quality Entangled Photon Pair Generation in Periodically Poled Thin-Film Lithium Niobate Waveguides. Physical Review Letters, 2020, 124, 163603.	7.8	167
18	Shallow-etched thin-film lithium niobate waveguides for highly-efficient second-harmonic generation. Optics Express, 2020, 28, 19669.	3.4	58

#	ARTICLE	IF	CITATIONS
19	Characterisation of width-dependent diffusion dynamics in rubidium-exchanged KTP waveguides. Optics Express, 2020, 28, 24353.	3.4	9
20	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
21	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
22	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
23	Optical diagnostic methods for monitoring the poling of thin-film lithium niobate waveguides. Optics Express, 2019, 27, 12025.	3.4	15
24	Imaging of ferroelectric domain walls in uniaxial ferroelectrics by confocal Raman spectroscopy: Unraveling the contrast mechanism. Physical Review Materials, 2018, 2, .	2.4	23
25	Impact of carbon-ion implantation on the nonlinear optical susceptibility of LiNbO <sub>3</sub> . Optics Express, 2017, 25, 21444.	3.4	4
26	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
27	Periodic domain inversion in x-cut single-crystal lithium niobate thin film. Applied Physics Letters, 2016, 108, .	3.3	52
28	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
29	Vibrational properties of mixed LiNbO <sub>3</sub> -LiTaO <sub>3</sub> crystals. Physical Review B, 2016, 93, .	3.2	26
30	Raman scattering efficiency in mixed LiTaO <sub>3</sub> -LiNbO <sub>3</sub> crystals. Physical Review B, 2015, 91, .	3.2	64
31	Vibrational Fingerprints of LiNbO <sub>3</sub> -LiTaO <sub>3</sub> Mixed Crystals. Ferroelectrics, 2013, 447, 63-68.	0.6	7
32	Nanoscale Conductive Sheets in Ferroelectric BaTiO <sub>3</sub> : Large Hall Electron Mobilities at Head-to-Head Domain Walls. ACS Applied Nano Materials, 0, .	5.0	3