

# Michael ZÃ¼rch

## List of Publications by Year in descending order

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29  
papers

1,183  
citations

471371

17  
h-index

477173

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1472  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Harmonic Generation from Resonant Dielectric Metasurfaces Empowered by Bound States in the Continuum. ACS Photonics, 2022, 9, 567-574.	3.2	84
2	Separating Non-linear Optical Signals of a Sample from High Harmonic Radiation in a Soft X-ray Free Electron Laser. E-Journal of Surface Science and Nanotechnology, 2022, 20, 31-35.	0.1	8
3	Light-induced dimension crossover dictated by excitonic correlations. Nature Communications, 2022, 13, 963.	5.8	23
4	Attosecond state-resolved carrier motion in quantum materials probed by soft x-ray XANES. Applied Physics Reviews, 2021, 8, .	5.5	30
5	Table-top extreme ultraviolet second harmonic generation. Science Advances, 2021, 7, .	4.7	26
6	Solid state core-exciton dynamics in NaCl observed by tabletop attosecond four-wave mixing spectroscopy. Physical Review B, 2021, 103, .	1.1	17
7	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	1.1	1
8	Extreme Ultraviolet Second Harmonic Generation Spectroscopy in a Polar Metal. Nano Letters, 2021, 21, 6095-6101.	4.5	17
9	Angstrom-Resolved Interfacial Structure in Buried Organic-Inorganic Junctions. Physical Review Letters, 2021, 127, 096801.	2.9	14
10	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	1.9	9
11	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from $\text{LiNbO}_3$ . Physical Review Letters, 2021, 127, 237402.	2.9	15
12	Nonlinear ionization dynamics of hot dense plasma observed in a laser-plasma amplifier. Light: Science and Applications, 2020, 9, 187.	7.7	12
13	Attosecond Time-Domain Measurement of Core-Level-Exciton Decay in Magnesium Oxide. Physical Review Letters, 2020, 124, 207401.	2.9	34
14	Discrete dispersion scan setup for measuring few-cycle laser pulses in the mid-infrared. Optics Letters, 2020, 45, 5295.	1.7	8
15	Differentiating Photoexcited Carrier and Phonon Dynamics in the $\hat{\Gamma}$ , $L$ , and $\hat{\Gamma}'$ Valleys of Si(100) with Transient Extreme Ultraviolet Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 3343-3352.	1.5	23
16	Perspective: Towards single shot time-resolved microscopy using short wavelength table-top light sources. Structural Dynamics, 2019, 6, 010902.	0.9	25
17	Wavelength-scale ptychographic coherent diffractive imaging using a high-order harmonic source. Scientific Reports, 2019, 9, 1735.	1.6	26
18	Retrieval of the complex-valued refractive index of germanium near the $M_{4,5}$ absorption edge. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1716.	0.9	13

#	ARTICLE	IF	CITATIONS
19	Lab-scale soft x-ray ptychography: advanced nanoscale imaging and beam diagnostics. , 2019, , .		0
20	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. Structural Dynamics, 2018, 5, 054302.	0.9	39
21	The ultrafast X-ray spectroscopic revolution in chemical dynamics. Nature Reviews Chemistry, 2018, 2, 82-94.	13.8	215
22	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. Physical Review B, 2018, 97, .	1.1	40
23	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. Nature Communications, 2017, 8, 15734.	5.8	117
24	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. Structural Dynamics, 2017, 4, 044029.	0.9	42
25	Transverse Coherence Limited Coherent Diffraction Imaging using a Molybdenum Soft X-ray Laser Pumped at Moderate Pump Energies. Scientific Reports, 2017, 7, 5314.	1.6	17
26	Resonance-enhanced multi-octave supercontinuum generation in antiresonant hollow-core fibers. Light: Science and Applications, 2017, 6, e17124-e17124.	7.7	74
27	High speed and high resolution table-top nanoscale imaging. Optics Letters, 2016, 41, 5170.	1.7	34
28	XUV coherent diffraction imaging in reflection geometry with low numerical aperture. Optics Express, 2013, 21, 21131.	1.7	40
29	Strong-field physics with singular light beams. Nature Physics, 2012, 8, 743-746.	6.5	179