

# Michael ZÃ¼rch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/72370/publications.pdf>

Version: 2024-02-01

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	The ultrafast X-ray spectroscopic revolution in chemical dynamics. <i>Nature Reviews Chemistry</i> , 2018, 2, 82-94.	13.8	215
2	Strong-field physics with singular light beams. <i>Nature Physics</i> , 2012, 8, 743-746.	6.5	179
3	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. <i>Nature Communications</i> , 2017, 8, 15734.	5.8	117
4	High-Harmonic Generation from Resonant Dielectric Metasurfaces Empowered by Bound States in the Continuum. <i>ACS Photonics</i> , 2022, 9, 567-574.	3.2	84
5	Resonance-enhanced multi-octave supercontinuum generation in antiresonant hollow-core fibers. <i>Light: Science and Applications</i> , 2017, 6, e17124-e17124.	7.7	74
6	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. <i>Structural Dynamics</i> , 2017, 4, 044029.	0.9	42
7	XUV coherent diffraction imaging in reflection geometry with low numerical aperture. <i>Optics Express</i> , 2013, 21, 21131.	1.7	40
8	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. <i>Physical Review B</i> , 2018, 97, .	1.1	40
9	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. <i>Structural Dynamics</i> , 2018, 5, 054302.	0.9	39
10	Attosecond Time-Domain Measurement of Core-Level-Exciton Decay in Magnesium Oxide. <i>Physical Review Letters</i> , 2020, 124, 207401.	2.9	34
11	High speed and high resolution table-top nanoscale imaging. <i>Optics Letters</i> , 2016, 41, 5170.	1.7	34
12	Attosecond state-resolved carrier motion in quantum materials probed by soft x-ray XANES. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	30
13	Wavelength-scale ptychographic coherent diffractive imaging using a high-order harmonic source. <i>Scientific Reports</i> , 2019, 9, 1735.	1.6	26
14	Table-top extreme ultraviolet second harmonic generation. <i>Science Advances</i> , 2021, 7, .	4.7	26
15	Perspective: Towards single shot time-resolved microscopy using short wavelength table-top light sources. <i>Structural Dynamics</i> , 2019, 6, 010902.	0.9	25
16	Differentiating Photoexcited Carrier and Phonon Dynamics in the $\hat{\Gamma}$ , $\langle i \rangle L \langle /i \rangle$ , and $\hat{\Gamma}'$ Valleys of Si(100) with Transient Extreme Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3343-3352.	1.5	23
17	Light-induced dimension crossover dictated by excitonic correlations. <i>Nature Communications</i> , 2022, 13, 963.	5.8	23
18	Transverse Coherence Limited Coherent Diffraction Imaging using a Molybdenum Soft X-ray Laser Pumped at Moderate Pump Energies. <i>Scientific Reports</i> , 2017, 7, 5314.	1.6	17

#	ARTICLE	IF	CITATIONS
19	Solid state core-exciton dynamics in NaCl observed by tabletop attosecond four-wave mixing spectroscopy. Physical Review B, 2021, 103, .	1.1	17
20	Extreme Ultraviolet Second Harmonic Generation Spectroscopy in a Polar Metal. Nano Letters, 2021, 21, 6095-6101.	4.5	17
21	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from $\text{LiNbO}_3$ . Physical Review Letters, 2021, 127, 237402.	2.9	15
22	Angstrom-Resolved Interfacial Structure in Buried Organic-Inorganic Junctions. Physical Review Letters, 2021, 127, 096801.	2.9	14
23	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
24	Nonlinear ionization dynamics of hot dense plasma observed in a laser-plasma amplifier. Light: Science and Applications, 2020, 9, 187.	7.7	12
25	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	1.9	9
26	Discrete dispersion scan setup for measuring few-cycle laser pulses in the mid-infrared. Optics Letters, 2020, 45, 5295.	1.7	8
27	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
28	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	1.1	1
29	Lab-scale soft x-ray ptychography: advanced nanoscale imaging and beam diagnostics. , 2019, , .		0