

# Markus Ilchen

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,107  
citations

567281

15  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1724  
citing authors

#	ARTICLE	IF	CITATIONS
1	A MHz-repetition-rate hard X-ray free-electron laser driven by a superconducting linear accelerator. <i>Nature Photonics</i> , 2020, 14, 391-397.	31.4	315
2	The Variable Polarization XUV Beamline P04 at PETRA III: Optics, mechanics and their performance. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 710, 151-154.	1.6	140
3	Attosecond time-resolved energy structure of X-ray free-electron laser pulses. <i>Nature Photonics</i> , 2018, 12, 215-220.	31.4	137
4	Polarization control in an X-ray free-electron laser. <i>Nature Photonics</i> , 2016, 10, 468-472.	31.4	116
5	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. <i>Nature Communications</i> , 2014, 5, 3648.	12.8	69
6	Symmetry breakdown of electron emission in extreme ultraviolet photoionization of argon. <i>Nature Communications</i> , 2018, 9, 4659.	12.8	36
7	Sensitivity of nonlinear photoionization to resonance substructure in collective excitation. <i>Nature Communications</i> , 2015, 6, 6799.	12.8	31
8	Circular dichroism measurements at an x-ray free-electron laser with polarization control. <i>Review of Scientific Instruments</i> , 2016, 87, 083113.	1.3	29
9	Angular Momentum Sensitive Two-Center Interference. <i>Physical Review Letters</i> , 2014, 112, 023001.	7.8	28
10	Angle-resolved study of resonant Auger decay and fluorescence emission processes after core excitations of the terminal and central nitrogen atoms in N <sub>2</sub> O. <i>Physical Review A</i> , 2014, 90, .	2.5	23
11	Double Core-Hole Generation in $O_2$ Molecules Using an X-Ray Free-Electron Laser: Molecular-Frame Photoelectron Angular Distributions. <i>Physical Review Letters</i> , 2020, 125, 163201.	7.8	23
12	Emitter-site-selective photoelectron circular dichroism of trifluoromethyloxirane. <i>Physical Review A</i> , 2017, 95, .	2.5	22
13	Electron angular distributions of noble gases in sequential two-photon double ionization. <i>Journal of Modern Optics</i> , 2016, 63, 324-333.	1.3	20
14	Photon-recoil imaging: Expanding the view of nonlinear x-ray physics. <i>Science</i> , 2020, 369, 1630-1633.	12.6	19
15	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
16	Angular distribution and circular dichroism in the two-colour XUV+NIR above-threshold ionization of helium. <i>Journal of Modern Optics</i> , 2016, 63, 367-382.	1.3	14
17	Photoelectron circular dichroism of O 1s-photoelectrons of uniaxially oriented trifluoromethyloxirane: energy dependence and sensitivity to molecular configuration. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17248-17258.	2.8	11
18	Resonance-Enhanced Multiphoton Ionization in the X-Ray Regime. <i>Physical Review Letters</i> , 2021, 127, 213202.	7.8	11

#	ARTICLE	IF	CITATIONS
19	Inner-Shell-Ionization-Induced Femtosecond Structural Dynamics of Water Molecules Imaged at an X-Ray Free-Electron Laser. <i>Physical Review X</i> , 2021, 11, .	8.9	10
20	Two-electron processes in multiple ionization under strong soft-x-ray radiation. <i>Physical Review A</i> , 2016, 94, .	2.5	9
21	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. <i>New Journal of Physics</i> , 2019, 21, 063034.	2.9	8
22	Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European X-ray Free Electron Laser. <i>Optics Express</i> , 2021, 29, 37429.	3.4	8
23	Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, .	2.5	5
24	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. <i>Physical Review A</i> , 2021, 103, .	2.5	3
25	High-resolution electron time-of-flight spectrometers for angle-resolved measurements at the SQS Instrument at the European XFEL. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 755-764.	2.4	3