

# Xiaosong Zhu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Control of the Geometric Phase and Nonequivalence between Geometric-Phase Definitions in the Adiabatic Limit. <i>Physical Review Letters</i> , 2022, 128, 030401.	7.8	7
2	Fingerprint of the Interbond Electron Hopping in Second-Order Harmonic Generation. <i>Physical Review Letters</i> , 2022, 128, 027401.	7.8	6
3	Generation of elliptically polarized attosecond pulses in mixed gases. <i>Physical Review A</i> , 2021, 103, .	2.5	16
4	Effects of quantum interferences among crystal-momentum-resolved electrons in solid high-order harmonic generation. <i>Physical Review A</i> , 2021, 103, .	2.5	6
5	Polarization control of the high-order harmonics generated from molecules by the carrier envelope phase of few-cycle laser field. <i>Optics Communications</i> , 2021, 485, 126763.	2.1	3
6	Anomalous ellipticity dependence of the generation of near-threshold harmonics in noble gases. <i>Physical Review A</i> , 2021, 103, .	2.5	6
7	Cutoff extension of high harmonics via resonant electron injection channels. <i>Physical Review A</i> , 2021, 103, .	2.5	7
8	Dynamic Core Polarization in High Harmonic Generation from Solids: The Example of MgO Crystals. <i>Physical Review Letters</i> , 2021, 126, 187401.	7.8	12
9	Resolving the polarization of high-order harmonic generation by temporal multislit interferometry. <i>Physical Review A</i> , 2021, 104, .	2.5	2
10	Huygens-Fresnel Picture for High Harmonic Generation in Solids. <i>Physical Review Letters</i> , 2021, 127, 223201.	7.8	18
11	Anisotropic Stark effect of carbon monoxide: emergent orbital cooperativity. <i>Molecular Physics</i> , 2020, 118, e1597198.	1.7	2
12	Elliptical isolated attosecond-pulse generation from an atom in a linear laser field. <i>Physical Review A</i> , 2020, 102, .	2.5	19
13	Near-circularly-polarized attosecond pulse generation from carbon monoxide molecules with a combination of linearly and circularly polarized fields. <i>Physical Review A</i> , 2020, 101, .	2.5	13
14	Interference effect in high-order harmonic generation from degenerate current-carrying orbitals of polyatomic molecules. <i>Physical Review A</i> , 2020, 101, .	2.5	11
15	Direct imaging of molecular rotation with high-order-harmonic generation. <i>Physical Review A</i> , 2019, 99, .	2.5	39
16	Reciprocal-Space-Trajectory Perspective on High-Harmonic Generation in Solids. <i>Physical Review Letters</i> , 2019, 122, 193901.	7.8	96
17	Orientation dependence of high-order harmonic generation in nanowire. <i>Physical Review A</i> , 2019, 99, .	2.5	32
18	Ultrafast oscillating-magnetic-field generation based on electronic-current dynamics. <i>Physical Review A</i> , 2019, 99, .	2.5	24

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19	Channel-closing effects of electronic excitation in solids. <i>Optics Express</i> , 2019, 27, 37224.	3.4	7
20	Resonance-modulated wavelength scaling of high-order-harmonic generation from $H^{(2)}$ . <i>Physical Review A</i> , 2018, 97, .	2.5	12
21	Monitoring ultrafast vibrational dynamics of isotopic molecules with frequency modulation of high-order harmonics. <i>Nature Communications</i> , 2018, 9, 1108.	12.8	102
22	Momentum gate for tunneling electrons with a circularly polarized control field. <i>Physical Review A</i> , 2018, 98, .	2.5	7
23	Wavelength dependence of high-order harmonic yields in solids. <i>Physical Review A</i> , 2018, 98, .	2.5	10
24	Determination of the Ionization Time Using Attosecond Photoelectron Interferometry. <i>Physical Review Letters</i> , 2018, 121, 253203.	7.8	69
25	Real-Time Observation of Molecular Spinning with Angular High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2018, 121, 163201.	7.8	60
26	Scaling Law of High Harmonic Generation in the Framework of Photon Channels. <i>Physical Review Letters</i> , 2018, 120, 223203.	7.8	27
27	Single-shot molecular orbital tomography with orthogonal two-color fields. <i>Optics Express</i> , 2018, 26, 2775.	3.4	31
28	Tomography of asymmetric molecular orbitals with a one-color inhomogeneous field. <i>Optics Letters</i> , 2018, 43, 931.	3.3	25
29	Subpetahertz helicity-modulated high-order harmonic radiation. <i>Physical Review A</i> , 2018, 98, .	2.5	11
30	Method for direct observation of Bloch oscillations in semiconductors. <i>Optics Express</i> , 2018, 26, 23844.	3.4	13
31	Probing the $\tilde{\epsilon}(\omega)$ transitions in conjugated compounds with an infrared femtosecond laser. <i>Physical Review A</i> , 2017, 95, .	2.5	15
32	Macroscopic effect of plasmon-driven high-order-harmonic generation. <i>Physical Review A</i> , 2017, 96, .	2.5	15
33	Attosecond Probing of Nuclear Dynamics with Trajectory-Resolved High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2017, 119, 033201.	7.8	111
34	Asymmetric molecular-orbital tomography by manipulating electron trajectories. <i>Physical Review A</i> , 2017, 96, .	2.5	6
35	High-order-harmonic generation of a doped semiconductor. <i>Physical Review A</i> , 2017, 96, .	2.5	54
36	Time-dependent population imaging for high-order-harmonic generation in solids. <i>Physical Review A</i> , 2017, 95, .	2.5	71

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37	Diffractive molecular-orbital tomography. <i>Physical Review A</i> , 2017, 95, .	2.5	32
38	Molecular orbital imaging for partially aligned molecules. <i>Optics and Laser Technology</i> , 2017, 87, 79-86.	4.6	42
39	Plasmon-shaped polarization gating for high-order-harmonic generation. <i>Physical Review A</i> , 2017, 96, .	2.5	2
40	Diffractive imaging of molecular orbital. , 2017, , .		0
41	High harmonic generation from axial chiral molecules. <i>Optics Express</i> , 2017, 25, 23502.	3.4	14
42	Wavelength scaling of the cutoff energy in the solid high harmonic generation. <i>Optics Express</i> , 2017, 25, 29216.	3.4	26
43	Resonance enhanced high-order harmonic generation in H <sub>2</sub> <sup>+</sup> by two sequential laser pulses. <i>Optics Express</i> , 2017, 25, 17777.	3.4	26
44	Ellipticity-tunable attosecond XUV pulse generation with a rotating bichromatic circularly polarized laser field. <i>Optics Letters</i> , 2017, 42, 1027.	3.3	56
45	Anomalous circular dichroism in high harmonic generation of stereoisomers with two chiral centers. <i>Optics Express</i> , 2016, 24, 24824.	3.4	9
46	High Harmonic Spectroscopy for Molecular Imaging with Coulomb Wave Functions. , 2016, , .		0
47	Helicity sensitive enhancement of strong-field ionization in circularly polarized laser fields. <i>Optics Express</i> , 2016, 24, 4196.	3.4	38
48	Selection rules of high-order-harmonic generation: Symmetries of molecules and laser fields. <i>Physical Review A</i> , 2016, 94, .	2.5	80
49	Helicity reversion in high-order-harmonic generation driven by bichromatic counter-rotating circularly polarized laser fields. <i>Physical Review A</i> , 2016, 94, .	2.5	19
50	Coulomb-corrected molecular orbital tomography of nitrogen. <i>Scientific Reports</i> , 2016, 6, 23236.	3.3	30
51	Near-circularly polarized single attosecond pulse generation from nitrogen molecules in spatially inhomogeneous laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 015602.	1.5	7
52	Non-dipole effects on high-order harmonic generation towards the long wavelength region. <i>Optics Communications</i> , 2016, 365, 125-132.	2.1	8
53	Molecular orbital imaging with high spatial and temporal resolutions. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 224207.	0.5	4
54	Nonadiabatic tunnel ionization in strong circularly polarized laser fields: counterintuitive angular shifts in the photoelectron momentum distribution. <i>Optics Express</i> , 2015, 23, 28801.	3.4	25

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55	Molecular high-order-harmonic generation due to the recollision mechanism by a circularly polarized laser pulse. <i>Physical Review A</i> , 2015, 91, .	2.5	34
56	Ultrafast molecular orbital imaging based on attosecond photoelectron diffraction. <i>Optics Express</i> , 2015, 23, 10687.	3.4	15
57	Probing rotational wave-packet dynamics with the structural minimum in high-order harmonic spectra. <i>Optics Express</i> , 2014, 22, 6362.	3.4	9
58	Molecular photoelectron holography by an attosecond XUV pulse in a strong infrared laser field. <i>Optics Express</i> , 2014, 22, 20421.	3.4	8
59	Interference of high-order harmonics generated from molecules at different alignment angles. <i>Physical Review A</i> , 2014, 89, .	2.5	14
60	Molecular-orbital tomography beyond the plane-wave approximation. <i>Physical Review A</i> , 2014, 89, .	2.5	30
61	Mapping molecular rotational dynamics on the time-dependent spectral minimum. , 2014, , .		0
62	Tomographic reconstruction of molecular orbitals with twofold mirror antisymmetry: Overcoming the nodal plane problem. <i>Physical Review A</i> , 2013, 87, .	2.5	16
63	Influence of large permanent dipoles on molecular orbital tomography. <i>Optics Express</i> , 2013, 21, 5255.	3.4	17
64	Quantum-orbit analysis for yield and ellipticity of high order harmonic generation with elliptically polarized laser field. <i>Optics Express</i> , 2013, 21, 4896.	3.4	12
65	Role of the Coulomb potential on the ellipticity in atomic high-order harmonics generation. <i>Optics Express</i> , 2012, 20, 16275.	3.4	16
66	Imprints of the molecular-orbital geometry on the high-harmonic ellipticity. <i>Optics Express</i> , 2012, 20, 20181.	3.4	8
67	Tomographic imaging of asymmetric molecular orbitals with a two-color multicycle laser field. <i>Optics Letters</i> , 2012, 37, 5208.	3.3	28
68	Two-Center Interference of Heteronuclear Diatomic Molecules in High-Order Harmonic Generation. <i>Springer Proceedings in Physics</i> , 2012, , 253-257.	0.2	0
69	Two-center interference in high-order harmonic generation from heteronuclear diatomic molecules. <i>Optics Express</i> , 2011, 19, 436.	3.4	37
70	Intense isolated attosecond pulse generation in pre-excited medium. <i>Optics Express</i> , 2011, 19, 4728.	3.4	11
71	Spatial coherence control of xuv supercontinuum generation by two-color laser field. <i>Optics Express</i> , 2011, 19, 9986.	3.4	3
72	Molecular orbital imaging via above-threshold ionization with circularly polarized pulses. <i>Optics Express</i> , 2011, 19, 13722.	3.4	28

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73	Laser-polarization-dependent photoelectron angular distributions from polar molecules. Optics Express, 2011, 19, 24198.	3.4	23
74	Broadband large-ellipticity harmonic generation with polar molecules. Optics Express, 2011, 19, 25084.	3.4	13
75	Macroscopic control of quantum paths in high order harmonics by a weak second harmonic field. Optics Express, 2011, 19, 25125.	3.4	1
76	Isolated attosecond pulse generation with the stability against the carrier-envelope phase shift and with the high-beam quality from CO gas medium. Optics Express, 2011, 19, 26174.	3.4	6