

Xiaosong Zhu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Attosecond Probing of Nuclear Dynamics with Trajectory-Resolved High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2017, 119, 033201.	7.8	111
2	Monitoring ultrafast vibrational dynamics of isotopic molecules with frequency modulation of high-order harmonics. <i>Nature Communications</i> , 2018, 9, 1108.	12.8	102
3	Reciprocal-Space-Trajectory Perspective on High-Harmonic Generation in Solids. <i>Physical Review Letters</i> , 2019, 122, 193901.	7.8	96
4	Selection rules of high-order-harmonic generation: Symmetries of molecules and laser fields. <i>Physical Review A</i> , 2016, 94, .	2.5	80
5	Time-dependent population imaging for high-order-harmonic generation in solids. <i>Physical Review A</i> , 2017, 95, .	2.5	71
6	Determination of the Ionization Time Using Attosecond Photoelectron Interferometry. <i>Physical Review Letters</i> , 2018, 121, 253203.	7.8	69
7	Real-Time Observation of Molecular Spinning with Angular High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2018, 121, 163201.	7.8	60
8	Ellipticity-tunable attosecond XUV pulse generation with a rotating bichromatic circularly polarized laser field. <i>Optics Letters</i> , 2017, 42, 1027.	3.3	56
9	High-order-harmonic generation of a doped semiconductor. <i>Physical Review A</i> , 2017, 96, .	2.5	54
10	Molecular orbital imaging for partially aligned molecules. <i>Optics and Laser Technology</i> , 2017, 87, 79-86.	4.6	42
11	Direct imaging of molecular rotation with high-order-harmonic generation. <i>Physical Review A</i> , 2019, 99, .	2.5	39
12	Helicity sensitive enhancement of strong-field ionization in circularly polarized laser fields. <i>Optics Express</i> , 2016, 24, 4196.	3.4	38
13	Two-center interference in high-order harmonic generation from heteronuclear diatomic molecules. <i>Optics Express</i> , 2011, 19, 436.	3.4	37
14	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
15	Diffraction molecular-orbital tomography. <i>Physical Review A</i> , 2017, 95, .	2.5	32
16	Orientation dependence of high-order harmonic generation in nanowire. <i>Physical Review A</i> , 2019, 99, .	2.5	32
17	Single-shot molecular orbital tomography with orthogonal two-color fields. <i>Optics Express</i> , 2018, 26, 2775.	3.4	31
18	Molecular-orbital tomography beyond the plane-wave approximation. <i>Physical Review A</i> , 2014, 89, .	2.5	30

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19	Coulomb-corrected molecular orbital tomography of nitrogen. <i>Scientific Reports</i> , 2016, 6, 23236.	3.3	30
20	Molecular orbital imaging via above-threshold ionization with circularly polarized pulses. <i>Optics Express</i> , 2011, 19, 13722.	3.4	28
21	Tomographic imaging of asymmetric molecular orbitals with a two-color multicycle laser field. <i>Optics Letters</i> , 2012, 37, 5208.	3.3	28
22	Scaling Law of High Harmonic Generation in the Framework of Photon Channels. <i>Physical Review Letters</i> , 2018, 120, 223203.	7.8	27
23	Wavelength scaling of the cutoff energy in the solid high harmonic generation. <i>Optics Express</i> , 2017, 25, 29216.	3.4	26
24	Resonance enhanced high-order harmonic generation in H ₂ ⁺ by two sequential laser pulses. <i>Optics Express</i> , 2017, 25, 17777.	3.4	26
25	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
26	Tomography of asymmetric molecular orbitals with a one-color inhomogeneous field. <i>Optics Letters</i> , 2018, 43, 931.	3.3	25
27	Ultrafast oscillating-magnetic-field generation based on electronic-current dynamics. <i>Physical Review A</i> , 2019, 99, .	2.5	24
28	Laser-polarization-dependent photoelectron angular distributions from polar molecules. <i>Optics Express</i> , 2011, 19, 24198.	3.4	23
29	Probing the $\pi \rightarrow \pi^*$ transitions in conjugated compounds with an infrared femtosecond laser. <i>Physical Review A</i> , 2017, 95, .	2.5	20
30	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
31	Elliptical isolated attosecond-pulse generation from an atom in a linear laser field. <i>Physical Review A</i> , 2020, 102, .	2.5	19
32	Huygens-Fresnel Picture for High Harmonic Generation in Solids. <i>Physical Review Letters</i> , 2021, 127, 223201.	7.8	18
33	Influence of large permanent dipoles on molecular orbital tomography. <i>Optics Express</i> , 2013, 21, 5255.	3.4	17
34	Role of the Coulomb potential on the ellipticity in atomic high-order harmonics generation. <i>Optics Express</i> , 2012, 20, 16275.	3.4	16
35	Tomographic reconstruction of molecular orbitals with twofold mirror antisymmetry: Overcoming the nodal plane problem. <i>Physical Review A</i> , 2013, 87, .	2.5	16
36	Generation of elliptically polarized attosecond pulses in mixed gases. <i>Physical Review A</i> , 2021, 103, .	2.5	16

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37	Ultrafast molecular orbital imaging based on attosecond photoelectron diffraction. Optics Express, 2015, 23, 10687.	3.4	15
38	Macroscopic effect of plasmon-driven high-order-harmonic generation. Physical Review A, 2017, 96, .	2.5	15
39	Interference of high-order harmonics generated from molecules at different alignment angles. Physical Review A, 2014, 89, .	2.5	14
40	High harmonic generation from axial chiral molecules. Optics Express, 2017, 25, 23502.	3.4	14
41	Broadband large-ellipticity harmonic generation with polar molecules. Optics Express, 2011, 19, 25084.	3.4	13
42	Near-circularly-polarized attosecond pulse generation from carbon monoxide molecules with a combination of linearly and circularly polarized fields. Physical Review A, 2020, 101, .	2.5	13
43	Method for direct observation of Bloch oscillations in semiconductors. Optics Express, 2018, 26, 23844.	3.4	13
44	Quantum-orbit analysis for yield and ellipticity of high order harmonic generation with elliptically polarized laser field. Optics Express, 2013, 21, 4896.	3.4	12
45	Resonance-modulated wavelength scaling of high-order-harmonic generation from H_2 . Physical Review A, 2018, 97, .	2.5	12
46	Dynamic Core Polarization in High Harmonic Generation from Solids: The Example of MgO Crystals. Physical Review Letters, 2021, 126, 187401.	7.8	12
47	Intense isolated attosecond pulse generation in pre-excited medium. Optics Express, 2011, 19, 4728.	3.4	11
48	Subpetahertz helicity-modulated high-order harmonic radiation. Physical Review A, 2018, 98, .	2.5	11
49	Interference effect in high-order harmonic generation from degenerate current-carrying orbitals of polyatomic molecules. Physical Review A, 2020, 101, .	2.5	11
50	Wavelength dependence of high-order harmonic yields in solids. Physical Review A, 2018, 98, .	2.5	10
51	Probing rotational wave-packet dynamics with the structural minimum in high-order harmonic spectra. Optics Express, 2014, 22, 6362.	3.4	9
52	Anomalous circular dichroism in high harmonic generation of stereoisomers with two chiral centers. Optics Express, 2016, 24, 24824.	3.4	9
53	Imprints of the molecular-orbital geometry on the high-harmonic ellipticity. Optics Express, 2012, 20, 20181.	3.4	8
54	Molecular photoelectron holography by an attosecond XUV pulse in a strong infrared laser field. Optics Express, 2014, 22, 20421.	3.4	8

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55	Non-dipole effects on high-order harmonic generation towards the long wavelength region. Optics Communications, 2016, 365, 125-132.	2.1	8
56	Near-circularly polarized single attosecond pulse generation from nitrogen molecules in spatially inhomogeneous laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 015602.	1.5	7
57	Momentum gate for tunneling electrons with a circularly polarized control field. Physical Review A, 2018, 98, .	2.5	7
58	Cutoff extension of high harmonics via resonant electron injection channels. Physical Review A, 2021, 103, .	2.5	7
59	Channel-closing effects of electronic excitation in solids. Optics Express, 2019, 27, 37224.	3.4	7
60	Control of the Geometric Phase and Nonequivalence between Geometric-Phase Definitions in the Adiabatic Limit. Physical Review Letters, 2022, 128, 030401.	7.8	7
61	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
62	Asymmetric molecular-orbital tomography by manipulating electron trajectories. Physical Review A, 2017, 96, .	2.5	6
63	Effects of quantum interferences among crystal-momentum-resolved electrons in solid high-order harmonic generation. Physical Review A, 2021, 103, .	2.5	6
64	Anomalous ellipticity dependence of the generation of near-threshold harmonics in noble gases. Physical Review A, 2021, 103, .	2.5	6
65	Fingerprint of the Interbond Electron Hopping in Second-Order Harmonic Generation. Physical Review Letters, 2022, 128, 027401.	7.8	6
66	Molecular orbital imaging with high spatial and temporal resolutions. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 224207.	0.5	4
67	Spatial coherence control of xuv supercontinuum generation by two-color laser field. Optics Express, 2011, 19, 9986.	3.4	3
68	Polarization control of the high-order harmonics generated from molecules by the carrier envelope phase of few-cycle laser field. Optics Communications, 2021, 485, 126763.	2.1	3
69	Plasmon-shaped polarization gating for high-order-harmonic generation. Physical Review A, 2017, 96, .	2.5	2
70	Anisotropic Stark effect of carbon monoxide: emergent orbital cooperativity. Molecular Physics, 2020, 118, e1597198.	1.7	2
71	Resolving the polarization of high-order harmonic generation by temporal multislit interferometry. Physical Review A, 2021, 104, .	2.5	2
72	Macroscopic control of quantum paths in high order harmonics by a weak second harmonic field. Optics Express, 2011, 19, 25125.	3.4	1

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73	High Harmonic Spectroscopy for Molecular Imaging with Coulomb Wave Functions. , 2016, , .		0
74	Diffraction imaging of molecular orbital. , 2017, , .		0
75	Two-Center Interference of Heteronuclear Diatomic Molecules in High-Order Harmonic Generation. Springer Proceedings in Physics, 2012, , 253-257.	0.2	0
76	Mapping molecular rotational dynamics on the time-dependent spectral minimum. , 2014, , .		0