

Xinhua Xie

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

1,488
citations

279798

23
h-index

315739

38
g-index

120
all docs

120
docs citations

120
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond-Recollision-Controlled Selective Fragmentation of Polyatomic Molecules. Physical Review Letters, 2012, 109, 243001.	7.8	136
2	Attosecond Probe of Valence-Electron Wave Packets by Subcycle Sculpted Laser Fields. Physical Review Letters, 2012, 108, 193004.	7.8	131
3	Subcycle Control of Electron-Electron Correlation in Double Ionization. Physical Review Letters, 2014, 112, 193002.	7.8	97
4	Internal Momentum State Mapping Using High Harmonic Radiation. Physical Review Letters, 2008, 101, 033901.	7.8	73
5	Selective Control over Fragmentation Reactions in Polyatomic Molecules Using Impulsive Laser Alignment. Physical Review Letters, 2014, 112, 163003.	7.8	66
6	Laser-sub-cycle two-dimensional electron-momentum mapping using orthogonal two-color fields. Physical Review A, 2014, 90, .	2.5	55
7	Time-resolved investigation of low-density plasma channels produced by a kilohertz femtosecond laser in air. Physical Review E, 2005, 72, 026412.	2.1	54
8	High Energy Proton Ejection from Hydrocarbon Molecules Driven by Highly Efficient Field Ionization. Physical Review Letters, 2011, 106, 163001.	7.8	52
9	Two-Dimensional Attosecond Electron Wave-Packet Interferometry. Physical Review Letters, 2015, 114, 173003.	7.8	43
10	Disentangling Intracycle Interferences in Photoelectron Momentum Distributions Using Orthogonal Two-Color Laser Fields. Physical Review Letters, 2017, 119, 243201.	7.8	43
11	Interference of electron wave packets in atomic ionization by subcycle sculpted laser pulses. Physical Review A, 2014, 89, .	2.5	42
12	Optical attosecond mapping by polarization selective detection. Physical Review A, 2007, 76, .	2.5	41
13	Electronic Predetermination of Ethylene Fragmentation Dynamics. Physical Review X, 2014, 4, .	8.9	41
14	Coincidence spectroscopy of high-lying Rydberg states produced in strong laser fields. Physical Review A, 2016, 94, .	2.5	39
15	Optical breakdown for silica and silicon with double femtosecond laser pulses. Optics Express, 2005, 13, 3096.	3.4	38
16	Angular encoding in attosecond recollision. New Journal of Physics, 2008, 10, 025029.	2.9	37
17	Laser-subcycle control of sequential double-ionization dynamics of helium. Physical Review A, 2016, 93, .	2.5	28
18	Localizing high-lying Rydberg wave packets with two-color laser fields. Physical Review A, 2017, 96, .	2.5	27

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19	Duration of an intense laser pulse can determine the breakage of multiple chemical bonds. Scientific Reports, 2015, 5, 12877.	3.3	26
20	Path-selective investigation of intense laser-pulse-induced fragmentation dynamics in triply charged 1,3-butadiene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 085603.	1.5	25
21	Probing the influence of the Coulomb field on atomic ionization by sculpted two-color laser fields. New Journal of Physics, 2013, 15, 043050.	2.9	24
22	Role of proton dynamics in efficient photoionization of hydrocarbon molecules. Physical Review A, 2014, 89, .	2.5	24
23	Frustrated double ionization of argon atoms in strong laser fields. Physical Review Research, 2020, 2, .	3.6	24
24	Two-proton migration in 1,3-butadiene in intense laser fields. Physical Chemistry Chemical Physics, 2010, 12, 12939.	2.8	23
25	Strong laser-pulse-driven ionization and Coulomb explosion of hydrocarbon molecules. Physical Review A, 2012, 86, .	2.5	23
26	Time-dependent density-functional study of the alignment-dependent ionization of acetylene and ethylene by strong laser pulses. Physical Review A, 2015, 91, .	2.5	23
27	Hydrogen migration and C-C bond breaking in 1,3-butadiene in intense laser fields studied by coincidence momentum imaging. Chemical Physics Letters, 2010, 484, 119-123.	2.6	22
28	Compact and robust supercontinuum generation and post-compression using multiple thin plates. High Power Laser Science and Engineering, 2021, 9, .	4.6	22
29	Fragmentation of long-lived hydrocarbons after strong field ionization. Physical Review A, 2016, 93, .	2.5	21
30	Enhanced ionisation of polyatomic molecules in intense laser pulses is due to energy upshift and field coupling of multiple orbitals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 125601.	1.5	21
31	Two-pulse control over double ionization pathways in CO ₂ . Journal of Chemical Physics, 2016, 144, 024306.	3.0	18
32	Subfemtosecond Tracing of Molecular Dynamics during Strong-Field Interaction. Physical Review Letters, 2019, 123, 263201.	7.8	16
33	Experimental Separation of Subcycle Ionization Bursts in Strong-Field Double Ionization of H ₂ . Physical Review Letters, 2020, 124, 103201.	7.8	14
34	Molecular oxygen observed by direct photoproduction from carbon dioxide. Physical Review A, 2017, 95, .	2.5	13
35	Generalized Phase Sensitivity of Directional Bond Breaking in the Laser-Molecule Interaction. Physical Review Letters, 2020, 125, 023202.	7.8	11
36	Time and momentum distributions of rescattering electrons. Journal of Modern Optics, 2007, 54, 999-1010.	1.3	10

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37	Subcycle dynamics in the laser ionization of molecules. <i>Physical Review A</i> , 2007, 76, .	2.5	10
38	Laser-induced inner-shell excitations through direct electron re-collision versus indirect collision. <i>Optics Express</i> , 2020, 28, 23251.	3.4	9
39	Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. <i>Optica</i> , 2022, 9, 399.	9.3	8
40	Numerical investigation of the sequential-double-ionization dynamics of helium in different few-cycle-laser-field shapes. <i>Physical Review A</i> , 2017, 95, .	2.5	7
41	Zero-energy proton dissociation of H ₂ ⁺ through stimulated Raman scattering. <i>Physical Review A</i> , 2019, 99, .	2.5	7
42	Laser-induced dissociative recombination of carbon dioxide. <i>Physical Review Research</i> , 2019, 1, .	3.6	7
43	High-intensity attosecond high-order harmonic generation driven by a synthesized laser field. <i>Physical Review A</i> , 2004, 70, .	2.5	6
44	Channel-resolved subcycle interferences of electron wave packets emitted from in two-color laser fields. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	4.6	6
45	Laser-Induced Electron Transfer in the Dissociative Multiple Ionization of Argon Dimers. <i>Physical Review Letters</i> , 2020, 125, 063202.	7.8	6
46	Real-time probing of the electron dynamics of an atom in a strong infrared laser field. <i>Physical Review A</i> , 2015, 91, .	2.5	4
47	Signature of multi-channel interference in high-order harmonic generation from N ₂ driven by intense mid-infrared pulses. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 224208.	0.5	4
48	Publisher's Note: Molecular oxygen observed by direct photoproduction from carbon dioxide [Phys. Rev. A 95 , 011404(R) (2017)]. <i>Physical Review A</i> , 2017, 95, .	2.5	2
49	Quantitative retrieval of the angular dependence of laser-induced electron rescattering in molecules. <i>Physical Review A</i> , 2021, 103, .	2.5	2
50	Laser-subcycle control of electronic excitation across system boundaries. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 164004.	1.5	2
51	Exploring photoelectron angular distributions emitted from molecular dimers by two delayed intense laser pulses. <i>Physical Review A</i> , 2020, 102, .	2.5	2
52	Phase-matched high-order harmonics by inter-action of Ar atoms with high-repetition-rate low-energy femtosecond laser pulses. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2004, 47, 492.	0.2	1
53	High energy proton ejection from hydrocarbon molecules driven by highly efficient field ionization. <i>Journal of Physics: Conference Series</i> , 2012, 388, 032063.	0.4	1
54	The molecular attoclock: sub-cycle control of electronic dynamics during H ₂ double ionization. <i>EPJ Web of Conferences</i> , 2019, 205, 02002.	0.3	1

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55	Many particle fragmentation dynamics of polyatomic hydrocarbon molecules. , 2009, , .		0
56	Measuring the influence of the Coulomb binding potential on the trajectories of strong-field driven electronic wave packets. , 2011, , .		0
57	High energy proton ejection from hydrocarbon molecules driven by highly efficient field ionization. , 2011, , .		0
58	Controlling and reading interference structures created by strong field ionizing attosecond electron wave packets. , 2011, , .		0
59	Strong field double ionization of Helium with ultra short circularly polarized light pulses. Journal of Physics: Conference Series, 2012, 388, 032071.	0.4	0
60	Controlling and reading interference structures created by strong field ionizing attosecond electron wave packets. Journal of Physics: Conference Series, 2012, 388, 032059.	0.4	0
61	Spatial control of electronic wave packets with attosecond precision. Journal of Physics: Conference Series, 2012, 388, 032069.	0.4	0
62	Observing the influence of the Coulomb binding potential on momentum spectra of strong-field driven electronic wave packets. Journal of Physics: Conference Series, 2012, 388, 032060.	0.4	0
63	Fragmentation Control of a Polyatomic Molecule by fully determined Laser-Fields. EPJ Web of Conferences, 2013, 41, 02021.	0.3	0
64	Probing and Controlling Electron Dynamics in Atoms and Molecules with Attosecond Electron Wave Packets. , 2014, , .		0
65	Controlling chemical bond break in hydrocarbons with laser fields. , 2014, , .		0
66	Strong field double ionization of Helium with ultra-short phase stabilized circularly polarized laser pulses. Journal of Physics: Conference Series, 2014, 488, 032010.	0.4	0
67	Molecular isomerization and fragmentation of polyatomic molecules controlled by inner-valence recollision-ionization. Journal of Physics: Conference Series, 2014, 488, 032012.	0.4	0
68	Selective inner-valence ionization of aligned polyatomic molecules for controlling molecular fragmentation. Journal of Physics: Conference Series, 2014, 488, 032013.	0.4	0
69	Control of atomic single and double ionization dynamics using orthogonally polarized two-color laser pulses. Journal of Physics: Conference Series, 2014, 488, 032011.	0.4	0
70	Observation of High-Lying Rydberg States Survived from Strong Field Interaction. , 2015, , .		0
71	Two-Pulse Control over Double Ionization Pathways in CO ₂ . Journal of Physics: Conference Series, 2015, 635, 112034.	0.4	0
72	High-Lying Rydberg States from Strong Field Interaction. Journal of Physics: Conference Series, 2015, 635, 092084.	0.4	0

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73	"Slow" Molecular Fragmentation after Ultrafast Interaction. Journal of Physics: Conference Series, 2015, 635, 112069.	0.4	0
74	Laser pulse duration can control the breakage of multiple chemical bonds. Journal of Physics: Conference Series, 2015, 635, 112033.	0.4	0
75	Direct observation of laser-induced O ₂ ⁺ production from CO ₂ . , 2017, , .		0
76	Localizing high-lying Rydberg wave packets by orthogonally-polarized two-color laser pulses. , 2017, , .		0
77	Disentangling intracycle interferences in the photoelectron spectrum of argon using orthogonally polarized, two-colour laser pulses. , 2017, , .		0
78	Enhanced ionization of acetylene in intense laser pulses is due to energy upshift and field coupling of multiple orbitals. Journal of Physics: Conference Series, 2017, 875, 032012.	0.4	0
79	Laser-Induced Oxygen Formation from Carbon Dioxide. Journal of Physics: Conference Series, 2017, 875, 032024.	0.4	0
80	Localizing High-Lying Rydberg Wave Packets with Orthogonally-Polarized Two-Color Laser Fields. Journal of Physics: Conference Series, 2017, 875, 022016.	0.4	0
81	Frustrated Double Ionization of Argon Atoms. , 2018, , .		0
82	Sub-Cycle Separation of Ionization Bursts in the Double Ionization of H ₂ . , 2019, , .		0
83	Photoelectron Circular Dichroism at the Few-Cycle Limit in the Tunnel Ionization Regime. , 2019, , .		0
84	Frustrated double ionization of argon atoms in strong laser fields. EPJ Web of Conferences, 2019, 205, 06007.	0.3	0
85	Imaging Rydberg States of Atoms and Molecules with a Weak DC Field. , 2019, , .		0
86	Dissociation of Laser-Induced Highly-Excited CO ₂ ⁺ . , 2019, , .		0
87	Polarization Dependence of Laser Induced inner-shell excitations. , 2021, , .		0
88	Theoretical and Experimental Study on Attosecond High-Order Harmonics Radiation at Shanghai Institute of Optics and Fine Mechanics. Journal of the Korean Physical Society, 2004, 44, 684.	0.7	0
89	Internal Momentum State Mapping using High Harmonic Radiation. Springer Series in Chemical Physics, 2009, , 48-50.	0.2	0
90	Momentum Imaging Of Three-Body Fragmentation Pathways In Polyatomic Molecules. , 2010, , .		0

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91	Driving Electronic Wavepackets by Attosecond Half-Cycle Pulses. , 2010, , .		0
92	Observation Of High Energy Protons Ejected From Small Polyatomic Molecules In Laser Induced Fragmentation. , 2010, , .		0
93	Concerted High-Energy Proton Emission in Laser-Induced Fragmentations of Polyatomic Molecules. , 2011, , .		0
94	Mapping the Coulomb Potential's Influence on the Motion of Electronic Wave Packets in Strong Laser Fields. , 2011, , .		0
95	Double ionization dynamics of ethylene in a strong laser field. , 2012, , .		0
96	Double ionization dynamics of ethylene in a strong laser field. , 2012, , .		0
97	Complete Fragmentation of Hydrocarbon Molecules Probed by Few-cycle Laser Pulses. , 2012, , .		0
98	Attosecond wavefunction retrieval by electron wavepacket interferometry. , 2012, , .		0
99	Attosecond Strong-field Electron Wavepacket Interferometry. , 2012, , .		0
100	Controlling Fragmentation Reactions of Polyatomic Molecules with Impulsive Alignment. , 2014, , .		0
101	Control of Chemical Bond Break with both Electronic and Nuclear Dynamics. , 2014, , .		0
102	Electronic pre-determination of ethylene fragmentation dynamics. , 2014, , .		0
103	Attosecond spatial control of electron wave packet emission dynamics. , 2014, , .		0
104	Electronic Pre-Determination of Ethylene Fragmentation Dynamics Using Intense, Ultrashort Laser Pulses. , 2014, , .		0
105	Controlling molecular fragmentation reactions with impulsive alignment. , 2014, , .		0
106	Electronic Pre-determination of Ethylene Fragmentation Dynamics. Springer Proceedings in Physics, 2015, , 155-159.	0.2	0
107	Attosecond Spatial Control of Electron Wave Packet Emission Dynamics. Springer Proceedings in Physics, 2015, , 113-117.	0.2	0
108	Long-lived Hydrocarbon Dications from Strong Field Interaction. , 2016, , .		0

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109	Coincidence Spectroscopy of High-Lying Rydberg States with a Reaction Microscope. , 2016, , .		0
110	Laser-sub-cycle control of sequential double ionization dynamics of helium. , 2016, , .		0
111	Laser-sub-cycle Fragmentation Dynamics of Argon Dimers. , 2016, , .		0
112	Molecular pathway control in sequential double ionization of CO ₂ using two-pulse sequences. , 2016, , .		0
113	The Molecular Attoclock: Sub-cycle Control of Electronic Dynamics During H ₂ Double Ionization. , 2018, , .		0
114	Two-Dimensional Control of Electron Localization in H ₂ Dissociation with Elliptically Polarized Few-Cycle Laser Pulses. , 2018, , .		0
115	Attosecond x-ray probing of laser-induced electron rescattering in atoms. Physical Review Research, 2020, 2, .	3.6	0
116	Optical second harmonic generation in LiB ₃ O ₅ modulated by intense femtosecond X-ray pulses. Optics Express, 2020, 28, 11117.	3.4	0
117	Polarization Dependence of Laser Induced inner-shell excitations. , 2022, , .		0