

Yunquan Liu

List of Publications by Year in descending order

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98
papers

2,440
citations

185998

28
h-index

223531

46
g-index

98
all docs

98
docs citations

98
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong-Field Double Ionization of Ar below the Recollision Threshold. Physical Review Letters, 2008, 101, 053001.	2.9	175
2	Classical-Quantum Correspondence for Above-Threshold Ionization. Physical Review Letters, 2014, 112, 113002.	2.9	169
3	Streaking Temporal Double-Slit Interference by an Orthogonal Two-Color Laser Field. Physical Review Letters, 2015, 114, 143001.	2.9	106
4	Nonsequential and Sequential Fragmentation of CO_2 in Intense Laser Fields. Physical Review Letters, 2013, 110, 103601.	2.9	91
5	Low Yield of Near-Zero-Momentum Electrons and Partial Atomic Stabilization in Strong-Field Tunneling Ionization. Physical Review Letters, 2012, 109, 093001.	2.9	89
6	Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields. Physical Review Letters, 2013, 111, 023006.	2.9	79
7	Energy-Resolved Ultrashort Delays of Photoelectron Emission Clocked by Orthogonal Two-Color Laser Fields. Physical Review Letters, 2017, 118, 143203.	2.9	78
8	Selective Steering of Molecular Multiple Dissociative Channels with Strong Few-Cycle Laser Pulses. Physical Review Letters, 2011, 106, 073004.	2.9	74
9	Multiphoton Double Ionization of Ar and Ne Close to Threshold. Physical Review Letters, 2010, 104, 173002.	2.9	67
10	Subcycle nonadiabatic strong-field tunneling ionization. Physical Review A, 2016, 93, .	1.0	67
11	Attoclock Photoelectron Interferometry with Two-Color Corotating Circular Fields to Probe the Phase and the Amplitude of Emitting Wave Packets. Physical Review Letters, 2018, 120, 073202.	2.9	64
12	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. Physical Review Letters, 2016, 116, 163004.	2.9	61
13	Revealing the Sub-Barrier Phase using a Spatiotemporal Interferometer with Orthogonal Two-Color Laser Fields of Comparable Intensity. Physical Review Letters, 2017, 119, 073201.	2.9	56
14	Strong-Field Double Ionization through Sequential Release from Double Excitation with Subsequent Coulomb Scattering. Physical Review Letters, 2014, 112, 013003.	2.9	55
15	Energy- and Momentum-Resolved Photoelectron Spin Polarization in Multiphoton Ionization of Xe by Circularly Polarized Fields. Physical Review Letters, 2018, 120, 043201.	2.9	50
16	Experimental verification of the nonadiabatic effect in strong-field ionization with elliptical polarization. Physical Review A, 2017, 95, .	1.0	43
17	Vibrational and electronic excitation of ionized nitrogen molecules in intense laser fields. Physical Review A, 2017, 96, .	1.0	39
18	Nonadiabatic tunneling ionization of atoms in elliptically polarized laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204027.	0.6	37

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19	Coulomb explosion of nitrogen and oxygen molecules through non-Coulombic states. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18398.	1.3	36
20	Scaling Laws of the Two-Electron Sum-Energy Spectrum in Strong-Field Double Ionization. <i>Physical Review Letters</i> , 2015, 115, 123001.	2.9	36
21	Ultrafast Electron Cooling and Decay in Monolayer WS ₂ Revealed by Time- and Energy-Resolved Photoemission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 3747-3753.	4.5	35
22	Mechanisms of Strong-Field Double Ionization of Xe. <i>Physical Review Letters</i> , 2014, 113, 103001.	2.9	34
23	Unifying Tunneling Pictures of Strong-Field Ionization with an Improved Attoclock. <i>Physical Review Letters</i> , 2019, 123, 073201.	2.9	34
24	Photoelectronic mapping of the spin-orbit interaction of intense light fields. <i>Nature Photonics</i> , 2021, 15, 115-120.	15.6	33
25	Universal Description of the Attoclock with Two-Color Corotating Circular Fields. <i>Physical Review Letters</i> , 2019, 122, 013201.	2.9	32
26	Revealing backward rescattering photoelectron interference of molecules in strong infrared laser fields. <i>Scientific Reports</i> , 2015, 5, 8519.	1.6	30
27	Controlling Photon Transverse Orbital Angular Momentum in High Harmonic Generation. <i>Physical Review Letters</i> , 2021, 127, 273901.	2.9	30
28	Communication: Determining the structure of the N ₂ Ar van der Waals complex with laser-based channel-selected Coulomb explosion. <i>Journal of Chemical Physics</i> , 2014, 140, 141101.	1.2	29
29	Correlation between Near-Field Enhancement and Dephasing Time in Plasmonic Dimers. <i>Physical Review Letters</i> , 2020, 124, 163901.	2.9	29
30	Photoelectron angular distributions of low-order above-threshold ionization of Xe in the multiphoton regime. <i>Physical Review A</i> , 2012, 85, .	1.0	27
31	Spatial-temporal control of interferences of multiple tunneling photoelectron wave packets. <i>Physical Review A</i> , 2015, 92, .	1.0	27
32	Molecular-frame photoelectron angular distributions of strong-field tunneling from inner orbitals. <i>Physical Review A</i> , 2013, 88, .	1.0	25
33	Isolating resonant excitation from above-threshold ionization. <i>Physical Review A</i> , 2015, 92, .	1.0	25
34	Tunneling wave packets of atoms from intense elliptically polarized fields in natural geometry. <i>Physical Review A</i> , 2017, 95, .	1.0	23
35	Optimizing the 391-nm lasing intensity from ionized nitrogen molecules in 800-nm femtosecond laser fields. <i>Physical Review A</i> , 2018, 97, .	1.0	23
36	Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields. <i>Physical Review A</i> , 2014, 89, .	1.0	22

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37	Calibration of the initial longitudinal momentum spread of tunneling ionization. <i>Physical Review A</i> , 2014, 89, .	1.0	20
38	Three-body fragmentation of CO ₂ driven by intense laser pulses. <i>Journal of Chemical Physics</i> , 2015, 142, 124303.	1.2	19
39	Complete characterization of sub-Coulomb-barrier tunnelling with phase-of-phase attoclock. <i>Nature Photonics</i> , 2021, 15, 765-771.	15.6	19
40	Towards non-sequential double ionization of Ne and Ar using a femtosecond laser oscillator. <i>Optics Express</i> , 2007, 15, 18103.	1.7	18
41	Vibrationally resolved electron-nuclear energy sharing in above-threshold multiphoton dissociation of CO. <i>Physical Review A</i> , 2016, 94, .	1.0	17
42	Strong-field ionization of diatomic molecules in orthogonally polarized two-color fields. <i>Physical Review A</i> , 2018, 97, .	1.0	15
43	Phase dependence of dynamical manipulation of NaI predissociation. <i>Physical Review A</i> , 2012, 85, .	1.0	14
44	Semiclassical models for strong-field tunneling ionization of molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 105602.	0.6	14
45	Probing time delays and coherent imaging of multiphoton resonant ionization. <i>Physical Review A</i> , 2018, 98, .	1.0	14
46	Real-time observation of ultrafast molecular rotation in weakly bound dimers. <i>Physical Review Research</i> , 2021, 3, .	1.3	14
47	Probing the Spin-Orbit Time Delay of Multiphoton Ionization of Kr by Bicircular Fields. <i>Physical Review Letters</i> , 2021, 126, 223001.	2.9	14
48	Probing the orbital angular momentum of intense vortex pulses with strong-field ionization. <i>Light: Science and Applications</i> , 2022, 11, 34.	7.7	14
49	Tunneling electron recaptured by an atomic ion or a molecular ion. <i>Physical Review A</i> , 2013, 88, .	1.0	13
50	Effects of orbital and Coulomb potential in strong-field nonadiabatic tunneling ionization of atoms. <i>Physical Review A</i> , 2017, 96, .	1.0	13
51	Spatially and temporally controlling electron spin polarization in strong-field ionization using orthogonal two-color laser fields. <i>Physical Review A</i> , 2019, 99, .	1.0	13
52	Stimulated-Raman-scattering-assisted superfluorescence enhancement from ionized nitrogen molecules in 800-nm femtosecond laser fields. <i>Physical Review A</i> , 2018, 98, .	1.0	12
53	Ultrafast imaging of spontaneous symmetry breaking in a photoionized molecular system. <i>Nature Communications</i> , 2021, 12, 4233.	5.8	12
54	Probing Molecular Frame Wigner Time Delay and Electron Wavepacket Phase Structure of CO Molecule. <i>Ultrafast Science</i> , 2022, 2022, .	5.8	12

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73	Retrieving the ionization dynamics of high-energy photoelectrons in elliptically polarized laser fields. <i>Physical Review A</i> , 2015, 92, .	1.0	6
74	Fully differential study on dissociative ionization dynamics of deuteron molecules in strong elliptical laser fields. <i>Physical Review A</i> , 2017, 95, .	1.0	6
75	Fully differential measurement on above-threshold ionization of CO and CO ₂ molecules in strong laser fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 293.	0.9	5
76	Charge oscillation in multiphoton and tunneling ionization of rare-gas dimers. <i>Physical Review A</i> , 2014, 89, .	1.0	5
77	Doubly excited electron-ion angular momentum transfer in parity-unfavored multiphoton ionization. <i>Physical Review A</i> , 2020, 101, .	1.0	5
78	Imaging and Controlling Photonic Modes in Perovskite Microcavities. <i>Advanced Materials</i> , 2021, 33, 2100775.	11.1	5
79	Control of Landau-Zener transition in NaI predissociation with chirped femtosecond laser pulses. <i>Europhysics Letters</i> , 2013, 101, 68006.	0.7	4
80	Phase-space perspective on the wavelength-dependent electron correlation of strong-field double ionization of Xe. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 124004.	1.0	4
81	Controlling backward-scattering photoelectron holography by attosecond streaking. <i>Physical Review A</i> , 2018, 98, .	1.0	4
82	Revealing rescattering-induced subcycle dynamics of the spiral-like holographic structure. <i>Physical Review A</i> , 2021, 104, .	1.0	4
83	Intensity dependence of NaI predissociation in midinfrared femtosecond laser fields. <i>Physical Review A</i> , 2013, 87, .	1.0	3
84	Control of the yield of surviving Rydberg atoms in strong-field ionization with two-color laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 125001.	0.6	3
85	Quantum effect of laser-induced rescattering from the tunneling barrier. <i>Physical Review A</i> , 2019, 99, .	1.0	3
86	Timing angular momentum transfer for parity-unfavored transitions in multiphoton ionization. <i>Physical Review A</i> , 2020, 102, .	1.0	3
87	Probing photoionization dichroism of excited electron ring currents by chiral photoelectron spectroscopy. <i>Physical Review A</i> , 2020, 101, .	1.0	3
88	Ultraviolet/Visible Quasicylindrical Waves on Semimetal Cd ₃ As ₂ Nanoplates. <i>Advanced Photonics Research</i> , 0, , 2100354.	1.7	3
89	Intrinsic resonant photoionization time delay of hydrogen atoms probed with attosecond beating of asymmetrical photon transitions. <i>Physical Review A</i> , 2021, 104, .	1.0	3
90	Structural determination of argon trimer. <i>AIP Advances</i> , 2015, 5, 097213.	0.6	2

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91	Strong-field tunneling ionization in the relativistic regime. Physical Review A, 2019, 99, .	1.0	2
92	Laser-wavelength and intensity dependence of electron-nuclear energy sharing in dissociative ionization of H ₂ . Physical Review A, 2020, 101, .	1.0	2
93	The long-term evolution of D ₂ ⁺ nuclear wave-packet with interaction of intense femtosecond laser pulse. Optics Express, 2009, 17, 23629.	1.7	1
94	Double-slit effect on laser induced electron diffraction of dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065004.	0.6	1
95	Probing the tunneling electron wave packet using the counter-rotating bi-circular fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 124003.	0.6	1
96	Electron correlation dynamics of strong-field double ionization of atoms below recollision threshold. Journal of Physics: Conference Series, 2011, 276, 012004.	0.3	0
97	Long Range Ionic Potential Effect on Strong-Field Tunneling. , 2015, , 1-23.		0
98	Photoelectron Interference and Photoelectron Holography. , 2015, , 25-50.		0