

Yunquan Liu

List of Publications by Year in descending order

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98
papers

2,440
citations

185998

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98
all docs

98
docs citations

98
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ultrafast Imaging of Molecular Dynamics Using Ultrafast Low-Frequency Lasers, X-ray Free Electron Lasers, and Electron Pulses. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1668-1680.	2.1	8
3	Probing Molecular Frame Wigner Time Delay and Electron Wavepacket Phase Structure of CO Molecule. <i>Ultrafast Science</i> , 2022, 2022, .	5.8	12
4	Photoelectronic mapping of the spin-orbit interaction of intense light fields. <i>Nature Photonics</i> , 2021, 15, 115-120.	15.6	33
5	Optimal control over high-order-harmonic ellipticity in two-color cross-linearly-polarized laser fields. <i>Physical Review A</i> , 2021, 103, .	1.0	9
6	Ultrafast extreme ultraviolet photoemission electron microscope. <i>Review of Scientific Instruments</i> , 2021, 92, 043709.	0.6	10
7	Real-time observation of ultrafast molecular rotation in weakly bound dimers. <i>Physical Review Research</i> , 2021, 3, .	1.3	14
8	Imaging and Controlling Photonic Modes in Perovskite Microcavities. <i>Advanced Materials</i> , 2021, 33, 2100775.	11.1	5
9	Strong-field photoionization of intense laser fields by controlling optical singularities. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	7
10	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
11	Ultrafast imaging of spontaneous symmetry breaking in a photoionized molecular system. <i>Nature Communications</i> , 2021, 12, 4233.	5.8	12
12	Complete characterization of sub-Coulomb-barrier tunnelling with phase-of-phase attoclock. <i>Nature Photonics</i> , 2021, 15, 765-771.	15.6	19
13	Probing the tunneling electron wave packet using the counter-rotating bi-circular fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 124003.	0.6	1
14	Probing tunneling dynamics of dissociative H_2 molecules using two-color bicircularly polarized fields. <i>Physical Review A</i> , 2021, 104, .	1.0	8
15	Revealing rescattering-induced subcycle dynamics of the spiral-like holographic structure. <i>Physical Review A</i> , 2021, 104, .	1.0	4
16	Controlling Photon Transverse Orbital Angular Momentum in High Harmonic Generation. <i>Physical Review Letters</i> , 2021, 127, 273901.	2.9	30
17	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
18	Timing angular momentum transfer for parity-unfavored transitions in multiphoton ionization. <i>Physical Review A</i> , 2020, 102, .	1.0	3

#	ARTICLE	IF	CITATIONS
19	Laser-wavelength and intensity dependence of electron-nuclear energy sharing in dissociative ionization of H ₂ . Physical Review A, 2020, 101, .	1.0	2
20	Doubly excited electron-ion angular momentum transfer in parity-unfavored multiphoton ionization. Physical Review A, 2020, 101, .	1.0	5
21	Ultrafast Electron Cooling and Decay in Monolayer WS ₂ Revealed by Time- and Energy-Resolved Photoemission Electron Microscopy. Nano Letters, 2020, 20, 3747-3753.	4.5	35
22	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
23	Correlation between Near-Field Enhancement and Dephasing Time in Plasmonic Dimers. Physical Review Letters, 2020, 124, 163901.	2.9	29
24	Probing photoionization dichroism of excited electron ring currents by chiral photoelectron spectroscopy. Physical Review A, 2020, 101, .	1.0	3
25	Unifying Tunneling Pictures of Strong-Field Ionization with an Improved Attoclock. Physical Review Letters, 2019, 123, 073201.	2.9	34
26	Strong-field ionization of Ar atoms with a $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msup} \langle \text{mml:mn} \rangle 45 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\alpha} \langle \text{mml:mo} \rangle \langle \text{mml:msup} \langle \text{mml:mn} \rangle 10 \langle \text{mml:mn} \rangle \rangle \rangle$ cross-linearly-polarized two-color laser field. Physical Review A, 2019, 100, .	1.0	2
27	Strong-field tunneling ionization in the relativistic regime. Physical Review A, 2019, 99, .	1.0	2
28	Spatially and temporally controlling electron spin polarization in strong-field ionization using orthogonal two-color laser fields. Physical Review A, 2019, 99, .	1.0	13
29	Quantum effect of laser-induced rescattering from the tunneling barrier. Physical Review A, 2019, 99, .	1.0	3
30	Universal Description of the Attoclock with Two-Color Corotating Circular Fields. Physical Review Letters, 2019, 122, 013201.	2.9	32
31	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
32	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
33	Optimizing the 391-nm lasing intensity from ionized nitrogen molecules in 800-nm femtosecond laser fields. Physical Review A, 2018, 97, .	1.0	23
34	Atomic-orbital-dependent photoelectron momentum distributions for F $\hat{\alpha}$ ions by orthogonal two-color laser fields. Physical Review A, 2018, 98, .	1.0	11
35	Stimulated-Raman-scattering-assisted superfluorescence enhancement from ionized nitrogen molecules in 800-nm femtosecond laser fields. Physical Review A, 2018, 98, .	1.0	12
36	Probing time delays and coherent imaging of multiphoton resonant ionization. Physical Review A, 2018, 98, .	1.0	14

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37	Controlling backward-scattering photoelectron holography by attosecond streaking. <i>Physical Review A</i> , 2018, 98, .	1.0	4
38	Strong-field ionization of diatomic molecules in orthogonally polarized two-color fields. <i>Physical Review A</i> , 2018, 97, .	1.0	15
39	Tunneling wave packets of atoms from intense elliptically polarized fields in natural geometry. <i>Physical Review A</i> , 2017, 95, .	1.0	23
40	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
41	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
42	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
43	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
44	Effects of orbital and Coulomb potential in strong-field nonadiabatic tunneling ionization of atoms. <i>Physical Review A</i> , 2017, 96, .	1.0	13
45	Experimental verification of the nonadiabatic effect in strong-field ionization with elliptical polarization. <i>Physical Review A</i> , 2017, 95, .	1.0	43
46	Revealing the Sub-Barrier Phase using a Spatiotemporal Interferometer with Orthogonal Two-Color Laser Fields of Comparable Intensity. <i>Physical Review Letters</i> , 2017, 119, 073201.	2.9	56
47	Vibrational and electronic excitation of ionized nitrogen molecules in intense laser fields. <i>Physical Review A</i> , 2017, 96, .	1.0	39
48	Energy-Resolved Ultrashort Delays of Photoelectron Emission Clocked by Orthogonal Two-Color Laser Fields. <i>Physical Review Letters</i> , 2017, 118, 143203.	2.9	78
49	Dissociative Ionization of Argon Dimer by Intense Femtosecond Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3891-3897.	1.1	9
50	Vibrationally resolved electron-nuclear energy sharing in above-threshold multiphoton dissociation of CO. <i>Physical Review A</i> , 2016, 94, .	1.0	17
51	Subcycle nonadiabatic strong-field tunneling ionization. <i>Physical Review A</i> , 2016, 93, .	1.0	67
52	Application of the partial-Fourier-transform approach for tunnel ionization of molecules. <i>Physical Review A</i> , 2016, 93, .	1.0	11
53	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. <i>Physical Review Letters</i> , 2016, 116, 163004.	2.9	61
54	Isolating resonant excitation from above-threshold ionization. <i>Physical Review A</i> , 2015, 92, .	1.0	25

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55	Spatial-temporal control of interferences of multiple tunneling photoelectron wave packets. Physical Review A, 2015, 92, .	1.0	27
56	Retrieving the ionization dynamics of high-energy photoelectrons in elliptically polarized laser fields. Physical Review A, 2015, 92, .	1.0	6
57	Control of photoelectron interference in asymmetric momentum distributions using two-color laser fields. Physical Review A, 2015, 92, .	1.0	7
58	Scaling Laws of the Two-Electron Sum-Energy Spectrum in Strong-Field Double Ionization. Physical Review Letters, 2015, 115, 123001.	2.9	36
59	Dynamical coupling of electrons and nuclei for Coulomb explosion of argon trimers in intense laser fields. Physical Review A, 2015, 92, .	1.0	11
60	Three-body fragmentation of CO ₂ driven by intense laser pulses. Journal of Chemical Physics, 2015, 142, 124303.	1.2	19
61	Structural determination of argon trimer. AIP Advances, 2015, 5, 097213.	0.6	2
62	Long Range Ionic Potential Effect on Strong-Field Tunneling. , 2015, , 1-23.		0
63	Streaking Temporal Double-Slit Interference by an Orthogonal Two-Color Laser Field. Physical Review Letters, 2015, 114, 143001.	2.9	106
64	Revealing backward rescattering photoelectron interference of molecules in strong infrared laser fields. Scientific Reports, 2015, 5, 8519.	1.6	30
65	Photoelectron Interference and Photoelectron Holography. , 2015, , 25-50.		0
66	Calibration of the initial longitudinal momentum spread of tunneling ionization. Physical Review A, 2014, 89, .	1.0	20
67	Communication: Determining the structure of the N ₂ Ar van der Waals complex with laser-based channel-selected Coulomb explosion. Journal of Chemical Physics, 2014, 140, 141101.	1.2	29
68	Strong-Field Double Ionization through Sequential Release from Double Excitation with Subsequent Coulomb Scattering. Physical Review Letters, 2014, 112, 013003.	2.9	55
69	Mechanisms of Strong-Field Double Ionization of Xe. Physical Review Letters, 2014, 113, 103001.	2.9	34
70	Identifying isomers of carbon-dioxide clusters by laser-driven Coulomb explosion. Physical Review A, 2014, 90, .	1.0	10
71	Recollision-induced subcycle interference of molecules in strong laser fields. Physical Review A, 2014, 89, .	1.0	10
72	Classical-Quantum Correspondence for Above-Threshold Ionization. Physical Review Letters, 2014, 112, 113002.	2.9	169

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73	Tunnelling coordinates of high-energy photoelectrons in above-threshold ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 015003.	0.6	10
74	Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields. Physical Review A, 2014, 89, .	1.0	22
75	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
76	Charge oscillation in multiphoton and tunneling ionization of rare-gas dimers. Physical Review A, 2014, 89, .	1.0	5
77	Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields. Physical Review Letters, 2013, 111, 023006.	2.9	79
78	Nonsequential and Sequential Fragmentation of CO_2 in Intense Laser Fields. Physical Review Letters, 2013, 110, 103601.	2.9	91
79	Intensity dependence of NaI predissociation in midinfrared femtosecond laser fields. Physical Review A, 2013, 87, .	1.0	3
80	Control of Landau-Zener transition in NaI predissociation with chirped femtosecond laser pulses. Europhysics Letters, 2013, 101, 68006.	0.7	4
81	Tunneling electron recaptured by an atomic ion or a molecular ion. Physical Review A, 2013, 88, .	1.0	13
82	Molecular-frame photoelectron angular distributions of strong-field tunneling from inner orbitals. Physical Review A, 2013, 88, .	1.0	25
83	Coincidence imaging of photoelectrons and photo-ions of molecules in strong laser fields. Journal of Modern Optics, 2013, 60, 1388-1394.	0.6	6
84	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
85	Dissociative double ionization of CO_2 induced by intense femtosecond laser pulses. Physical Review A, 2012, 85, .	1.0	8
86	Phase dependence of dynamical manipulation of NaI predissociation. Physical Review A, 2012, 85, .	1.0	14
87	Photoelectron angular distributions of low-order above-threshold ionization of Xe in the multiphoton regime. Physical Review A, 2012, 85, .	1.0	27
88	Coulomb explosion of nitrogen and oxygen molecules through non-Coulombic states. Physical Chemistry Chemical Physics, 2011, 13, 18398.	1.3	36
89	Selective Steering of Molecular Multiple Dissociative Channels with Strong Few-Cycle Laser Pulses. Physical Review Letters, 2011, 106, 073004.	2.9	74
90	Fully differential measurement on above-threshold ionization of CO and CO_2 molecules in strong laser fields. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 293.	0.9	5

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91	Electron correlation dynamics of strong-field double ionization of atoms below recollision threshold. Journal of Physics: Conference Series, 2011, 276, 012004.	0.3	0
92	Differential study on molecular suppressed ionization in intense linearly and circularly polarized laser fields. Physical Review A, 2011, 84, .	1.0	9
93	Recollision-induced dissociation and ionization of oxygen in few-cycle laser fields. Physical Review A, 2011, 83, .	1.0	11
94	Multiphoton Double Ionization of Ar and Ne Close to Threshold. Physical Review Letters, 2010, 104, 173002.	2.9	67
95	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
96	Strong-Field Double Ionization of Ar below the Recollision Threshold. Physical Review Letters, 2008, 101, 053001.	2.9	175
97	Towards non-sequential double ionization of Ne and Ar using a femtosecond laser oscillator. Optics Express, 2007, 15, 18103.	1.7	18
98	Ultraviolet/Visible Quasicylindrical Waves on Semimetal Cd ₃ As ₂ Nanoplates. Advanced Photonics Research, 0, , 2100354.	1.7	3