Chengyin Wu

List of Publications by Year
in descending order

118	2,666	185998	223531
papers	citations	28 h-index	46 g-index

118	118	118	1341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Classical-Quantum Correspondence for Above-Threshold Ionization. Physical Review Letters, 2014, 112, 113002.	2.9	169
2	Population Redistribution Among Multiple Electronic States of Molecular Nitrogen Ions in Strong Laser Fields. Physical Review Letters, 2016, 116, 143007.	2.9	132
3	Characteristic Spectrum of Very Low-Energy Photoelectron from Above-Threshold Ionization in the Tunneling Regime. Physical Review Letters, 2012, 109, 043001.	2.9	119
4	Photophysics of Methyl-Substituted Uracils and Thymines and Their Water Complexes in the Gas Phase. Journal of Physical Chemistry A, 2004, 108, 943-949.	1.1	115
5	Decay Pathways of Thymine and Methyl-Substituted Uracil and Thymine in the Gas Phase. Journal of Physical Chemistry A, 2003, 107, 5145-5148.	1.1	110
6	Nonsequential and Sequential Fragmentation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>CO</mml:mi><mml:mn>2</mml:mn><mml:none /><mml:none /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:mmultiscripts></mml:math>in Intense Laser Fields. Physical Review Letters, 2013, 110, 103601.	2.9	91
7	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
8	Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields. Physical Review Letters, 2013, 111, 023006.	2.9	79
9	Selective Steering of Molecular Multiple Dissociative Channels with Strong Few-Cycle Laser Pulses. Physical Review Letters, 2011, 106, 073004.	2.9	74
10	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. Physical Review Letters, 2016, 116, 163004.	2.9	61
11	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
12	Strong-Field Double Ionization through Sequential Release from Double Excitation with Subsequent Coulomb Scattering. Physical Review Letters, 2014, 112, 013003.	2.9	55
13	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
14	Experimental verification of the nonadiabatic effect in strong-field ionization with elliptical polarization. Physical Review A, 2017, 95, .	1.0	43
15	Vibrational and electronic excitation of ionized nitrogen molecules in intense laser fields. Physical Review A, 2017, 96, .	1.0	39
16	Coulomb explosion of nitrogen and oxygen molecules through non-Coulombic states. Physical Chemistry Chemical Physics, 2011, 13, 18398.	1.3	36
17	Fragmentation dynamics of methane by few-cycle femtosecond laser pulses. Journal of Chemical Physics, 2007, 126, 074311.	1.2	35
18	Population inversion in the rotational levels of the superradiant N_2 ^+ pumped by femtosecond laser pulses. Optics Express, 2017, 25, 4535.	1.7	35

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19	Tunneling ionization of carbon dioxide from lower-lying orbitals. Physical Review A, 2011, 83, .	1.0	34
20	Mechanisms of Strong-Field Double Ionization of Xe. Physical Review Letters, 2014, 113, 103001.	2.9	34
21	Photoelectronic mapping of the spinâ€“orbit interaction of intense light fields. Nature Photonics, 2021, 15, 115-120.	15.6	33
22	Coherent modulation of superradiance from nitrogen ions pumped with femtosecond pulses. Optics Express, 2019, 27, 12638.	1.7	33
23	Field-free alignment of molecules at room temperature. Optics Express, 2006, 14, 4992.	1.7	31
24	Double Ionization of Nitrogen from Multiple Orbitals. Journal of Physical Chemistry A, 2010, 114, 6751-6756.	1.1	30
25	Revealing backward rescattering photoelectron interference of molecules in strong infrared laser fields. Scientific Reports, 2015, 5, 8519.	1.6	30
26	Communication: Determining the structure of the N2Ar van der Waals complex with laser-based channel-selected Coulomb explosion. Journal of Chemical Physics, 2014, 140, 141101.	1.2	29
27	Field Ionization of Aliphatic Ketones by Intense Femtosecond Laser. Journal of Physical Chemistry A, 2001, 105, 374-377.	1.1	28
28	Theoretical and Experimental Studies of Water Complexes ofp- ando-Aminobenzoic Acid. Journal of Physical Chemistry A, 2005, 109, 2809-2815.	1.1	28
29	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. Physical Review A, 2019, 100, .	1.0	28
30	Photoelectron angular distributions of low-order above-threshold ionization of Xe in the multiphoton regime. Physical Review A, 2012, 85, .	1.0	27
31	Two-color two-photon REMPI and ZEKE spectroscopy of supersonically cooled o-aminobenzoic acid. Chemical Physics Letters, 2004, 398, 351-356.	1.2	26
32	Manipulating molecular rotational wave packets with strong femtosecond laser pulses. Physical Review A, 2008, 77, .	1.0	26
33	Controlling molecular rotational population by wave-packet interference. Journal of Chemical Physics, 2009, 130, 231102.	1.2	26
34	Resonantly enhanced two photon ionization and zero kinetic energy spectroscopy of jet-cooled 4-aminopyridine. Journal of Chemical Physics, 2004, 120, 7497-7504.	1.2	25
35	Molecular-frame photoelectron angular distributions of strong-field tunneling from inner orbitals. Physical Review A, 2013, 88, .	1.0	25
36	Isolating resonant excitation from above-threshold ionization. Physical Review A, 2015, 92, .	1.0	25

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37	Subfemtosecond-resolved modulation of superfluorescence from ionized nitrogen molecules by 800-nm femtosecond laser pulses. Optics Express, 2019, 27, 14922.	1.7	24
38	Laser-induced dissociation and explosion of methane and methanol. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2575-2582.	0.6	23
39	Zero kinetic energy photoelectron spectroscopy of p-amino benzoic acid. Journal of Chemical Physics, 2004, 121, 3533-3539.	1.2	23
40	Field-Induced Alignment of Oxygen and Nitrogen by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2006, 110, 10179-10184.	1.1	23
41	Optimizing the 391-nm lasing intensity from ionized nitrogen molecules in 800-nm femtosecond laser fields. Physical Review A, 2018, 97, .	1.0	23
42	Ionization and dissociation of alkanes in few-cycle laser fields. Physical Review A, 2007, 75, .	1.0	22
43	Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields. Physical Review A, 2014, 89, .	1.0	22
44	Mass and photoelectron spectrometer for studying field-induced ionization of molecules. International Journal of Mass Spectrometry, 2002, 216, 249-255.	0.7	20
45	Observation of rotamers of m-aminobenzoic acid: Zero kinetic energy photoelectron and hole-burning resonantly enhanced multiphoton ionization spectroscopy. Journal of Chemical Physics, 2004, 121, 8321.	1.2	20
46	Measurement of the Field-Free Alignment of Diatomic Molecules. Journal of Physical Chemistry A, 2008, 112, 612-617.	1.1	20
47	Population dynamics of molecular nitrogen initiated by intense femtosecond laser pulses. Physical Review A, 2015, 92, .	1.0	19
48	Three-body fragmentation of CO2 driven by intense laser pulses. Journal of Chemical Physics, 2015, 142, 124303.	1.2	19
49	The fast decay of ionized nitrogen molecules in laser filamentation investigated by a picosecond streak camera. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 145101.	0.6	19
50	Molecular Rotational Excitation by Strong Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2009, 113, 10610-10618.	1.1	17
51	Vibrationally resolved electron-nuclear energy sharing in above-threshold multiphoton dissociation of CO. Physical Review A, 2016, 94, .	1.0	17
52	Two-color two-photon REMPI and ZEKE photoelectron spectroscopy of jet-cooled 2-chloropyrimidine. Chemical Physics Letters, 2004, 391, 38-43.	1.2	16
53	Long-Range Coulomb Effect in Intense Laser-Driven Photoelectron Dynamics. Scientific Reports, 2016, 6, 27108.	1.6	16
54	Alignment structures of rotational wavepacket created by two strong femtosecond laser pulses. Optics Express, 2010, 18, 8990.	1.7	15

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55	Geometric alignment of CH3I in an intense femtosecond laser field. Chemical Physics Letters, 2005, 415, 58-63.	1.2	14
56	A Theoretical and Experimental Study of Water Complexes ofm-Aminobenzoic Acid MABAÂ·(H2O)n(n= 1) Tj ETQq0 0 0 rgBT /Overlock 1	1.1	14
57	Spectroscopic study of laser-induced tunneling ionization of nitrogen molecules. Physical Review A, 2014, 90, .	1.0	14
58	Enhanced Coherent Emission from Ionized Nitrogen Molecules by Femtosecond Laser Pulses. Journal of Physical Chemistry Letters, 2019, 10, 6598-6603.	2.1	14
59	Probing the Spin-Orbit Time Delay of Multiphoton Ionization of Kr by Bicircular Fields. Physical Review Letters, 2021, 126, 223001.	2.9	14
60	Conformational identification of tryptamine embedded in superfluid helium droplets using electronic polarization spectroscopy. Journal of Chemical Physics, 2006, 125, 024305.	1.2	13
61	Field-free molecular alignment and its application. Laser Physics, 2009, 19, 1691-1696.	0.6	13
62	Tunneling electron recaptured by an atomic ion or a molecular ion. Physical Review A, 2013, 88, .	1.0	13
63	Field ionization and Coulomb explosion of methanol in an intense field of a femtosecond laser beam. International Journal of Mass Spectrometry, 2002, 219, 305-313.	0.7	12
64	Stimulated-Raman-scattering-assisted superfluorescence enhancement from ionized nitrogen molecules in 800-nm femtosecond laser fields. Physical Review A, 2018, 98, .	1.0	12
65	Photon retention in coherently excited nitrogen ions. Science Bulletin, 2021, 66, 1511-1517.	4.3	12
66	Two-photon polymerization of gratings by interference of a femtosecond laser pulse. Chemical Physics Letters, 2003, 374, 381-384.	1.2	11
67	Recollision-induced dissociation and ionization of oxygen in few-cycle laser fields. Physical Review A, 2011, 83, .	1.0	11
68	Dynamical coupling of electrons and nuclei for Coulomb explosion of argon trimers in intense laser fields. Physical Review A, 2015, 92, .	1.0	11
69	Nonresonant multiphoton ionization of xenon atoms by femtosecond laser pulses. Chemical Physics, 2019, 523, 52-56.	0.9	11
70	Field-assisted bond stretching of CO in intense laser fields. Physical Review A, 2009, 79, .	1.0	10
71	Multiple ionization of oxygen studied by coincident measurement. Optics Express, 2010, 18, 10395.	1.7	10
72	Identifying isomers of carbon-dioxide clusters by laser-driven Coulomb explosion. Physical Review A, 2014, 90, .	1.0	10

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73	Ultrafast extreme ultraviolet photoemission electron microscope. Review of Scientific Instruments, 2021, 92, 043709.	0.6	10
74	Molecular dynamics of CO in few-cycle laser fields. International Journal of Mass Spectrometry, 2009, 286, 28-31.	0.7	9
75	Differential study on molecular suppressed ionization in intense linearly and circularly polarized laser fields. Physical Review A, 2011, 84, .	1.0	9
76	Dissociative Ionization of Argon Dimer by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2017, 121, 3891-3897.	1.1	9
77	Ionization and dissociation of acetonitrile by intense femtosecond laser pulse. Science Bulletin, 2000, 45, 1953-1955.	1.7	8
78	Polarization spectroscopy of gaseous tropolone in a strong electric field. Journal of Chemical Physics, 2004, 121, 4577-4584.	1.2	8
79	Dynamic alignment of CO in an intense femtosecond laser field. Chemical Physics Letters, 2005, 406, 116-120.	1.2	8
80	Dissociative double ionization of CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>induced by intense femtosecond laser pulses. Physical Review A, 2012, 85, .	1.0	8
81	Rotational wave packet of N2O created by two strong femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 165508.	0.6	7
82	Fluorescence emission from excited molecular ions in intense femtosecond laser fields. Frontiers of Physics, 2013, 8, 34-38.	2.4	7
83	Formation Mechanism of Excited Neutral Nitrogen Molecules Pumped by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry Letters, 2020, 11, 7702-7708.	2.1	7
84	Dynamic alignment of C2H4 investigated by using two linearly polarized femtosecond laser pulses. Journal of the American Society for Mass Spectrometry, 2006, 17, 1717-1724.	1.2	6
85	Mass spectra of methyl acetate and ethyl formate. Chemical Physics Letters, 2009, 468, 153-157.	1.2	6
86	Application of femtosecond laser mass spectrometry to the analysis of volatile organic compounds. Journal of the American Society for Mass Spectrometry, 2010, 21, 1122-1128.	1.2	6
87	Coincidence imaging of photoelectrons and photo-ions of molecules in strong laser fields. Journal of Modern Optics, 2013, 60, 1388-1394.	0.6	6
88	Fully differential study on dissociative ionization dynamics of deuteron molecules in strong elliptical laser fields. Physical Review A, 2017, 95, .	1.0	6
89	Dynamic alignment of O2investigated by using two linearly polarized femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1035-1043.	0.6	5
90	Mass spectra of ethylene in intense laser fields. Chemical Physics, 2009, 360, 13-17.	0.9	5

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91	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
92	Charge oscillation in multiphoton and tunneling ionization of rare-gas dimers. Physical Review A, 2014, 89, .	1.0	5
93	Doubly excited electron-ion angular momentum transfer in parity-unfavored multiphoton ionization. Physical Review A, 2020, 101, .	1.0	5
94	Field induced ionization and Coulomb explosion of carbon disulfide. Optics Communications, 2003, 216, 133-138.	1.0	4
95	Cation vibrational energy levels of 1,3-benzodioxole obtained via zero kinetic energy photoelectron spectroscopy. Chemical Physics Letters, 2005, 402, 212-216.	1.2	4
96	Double ionization of C2H4 and C2H6 molecules irradiated by an intense femtosecond laser field. Chemical Physics Letters, 2005, 404, 370-373.	1.2	4
97	Three-body fragmentation dynamics of carbon-dioxide dimers induced by intense femtosecond laser pulses. Chemical Physics Letters, 2016, 653, 108-111.	1.2	4
98	Phase-space perspective on the wavelength-dependent electron correlation of strong-field double ionization of Xe. Journal of Optics (United Kingdom), 2017, 19, 124004.	1.0	4
99	Structure of Gas Phase Radical Cation of 1,3,6,8-Tetraazatricyclo[4.4.1.13,8] Dodecane Determined from Zero Kinetic Energy Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2005, 109, 959-961.	1.1	3
100	Low-Energy Photoelectron Angular Distributions of Above-Threshold Ionization of Atoms and Molecules in Strong Laser Fields. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 195-200.	1.9	3
101	Quantum effect of laser-induced rescattering from the tunneling barrier. Physical Review A, 2019, 99, .	1.0	3
102	Ramsey interferometry through coherent A²Î_uâ^'X²Î£g+â^'B²Î£u+ coupling and population transfer in N2+ air laser. Optics Letters, 2020, 45, 6587.	1.7	3
103	Structural determination of argon trimer. AIP Advances, 2015, 5, 097213.	0.6	2
104	FIELD-FREE MOLECULAR ALIGNMENT BY TWO FEMOSECOND LASER PULSES. Advances in Multi-photon Processes and Spectroscopy, 2011, , 53-100.	0.6	1
105	Publisher's Note: Molecular-frame photoelectron angular distributions of strong-field tunneling from inner orbitals [Phys. Rev. A88, 061401(R) (2013)]. Physical Review A, 2013, 88, .	1.0	1
106	Publisher's Note: Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields [Phys. Rev. A89, 013422 (2014)]. Physical Review A, 2014, 89, .	1.0	1
107	Publisherâ€™s Note: Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields [Phys. Rev. Lett. 111, 023006 (2013)]. Physical Review Letters, 2014, 112, .	2.9	1
108	Decay Pathways of Pyrimidine Bases: From Gas Phase to Solution. Challenges and Advances in Computational Chemistry and Physics, 2008, , 301-321.	0.6	0

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109	Imaging the structure of van der Waals Complexes with Laser-driven Coulomb Explosion. , 2014, , .		0
110	Publisherâ€™s Note: Mechanisms of Strong-Field Double Ionization of Xe [Phys. Rev. Lett.113, 103001 (2014)]. Physical Review Letters, 2014, 113, .	2.9	0
111	Long Range Ionic Potential Effect on Strong-Field Tunneling. , 2015, , 1-23.		0
112	Resonance-Enhanced Harmonics From Air Plasma In The Perturbative Regime. , 2018, , .		0
113	Optical amplification from high vibrational states of ionized nitrogen molecules generated by 800-nm femtosecond laser pulses. Optics Express, 2021, 29, 2279.	1.7	0
114	Manipulation of molecular rotational wave-packet. , 2008, , .		0
115	Steering of Molecular Multiple Dissociative Ionization with Strong Few-Cycle Laser Fields. Springer Proceedings in Physics, 2012, , 269-275.	0.1	0
116	Structure Tomography of Argon Trimer with Laser-Driven Coulomb Explosion Imaging. , 2015, , .		0
117	Coulomb explosion of molecules driven by femtosecond laser pulses. Scientia Sinica: Physica, Mechanica Et Astronomica, 2017, 47, 033004.	0.2	0
118	Electronic quantum coherence in N 2 + air lasing. , 2019, , .		0