

# Chengyin Wu

## List of Publications by Year in descending order

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118  
papers

2,666  
citations

186265

28  
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223800

46  
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118  
all docs

118  
docs citations

118  
times ranked

1341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classical-Quantum Correspondence for Above-Threshold Ionization. Physical Review Letters, 2014, 112, 113002.	7.8	169
2	Population Redistribution Among Multiple Electronic States of Molecular Nitrogen Ions in Strong Laser Fields. Physical Review Letters, 2016, 116, 143007.	7.8	132
3	Characteristic Spectrum of Very Low-Energy Photoelectron from Above-Threshold Ionization in the Tunneling Regime. Physical Review Letters, 2012, 109, 043001.	7.8	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.	2.5	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.	2.5	110
6	Nonsequential and Sequential Fragmentation of $\text{CO}_2$ in Intense Laser Fields. Physical Review Letters, 2013, 110, 103601.	7.8	91
7	Low Yield of Near-Zero-Momentum Electrons and Partial Atomic Stabilization in Strong-Field Tunneling Ionization. Physical Review Letters, 2012, 109, 093001.	7.8	89
8	Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields. Physical Review Letters, 2013, 111, 023006.	7.8	79
9	Selective Steering of Molecular Multiple Dissociative Channels with Strong Few-Cycle Laser Pulses. Physical Review Letters, 2011, 106, 073004.	7.8	74
10	Phase Structure of Strong-Field Tunneling Wave Packets from Molecules. Physical Review Letters, 2016, 116, 163004.	7.8	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.	7.8	56
12	Strong-Field Double Ionization through Sequential Release from Double Excitation with Subsequent Coulomb Scattering. Physical Review Letters, 2014, 112, 013003.	7.8	55
13	Energy- and Momentum-Resolved Photoelectron Spin Polarization in Multiphoton Ionization of Xe by Circularly Polarized Fields. Physical Review Letters, 2018, 120, 043201.	7.8	50
14	Experimental verification of the nonadiabatic effect in strong-field ionization with elliptical polarization. Physical Review A, 2017, 95, .	2.5	43
15	Vibrational and electronic excitation of ionized nitrogen molecules in intense laser fields. Physical Review A, 2017, 96, .	2.5	39
16	Coulomb explosion of nitrogen and oxygen molecules through non-Coulombic states. Physical Chemistry Chemical Physics, 2011, 13, 18398.	2.8	36
17	Fragmentation dynamics of methane by few-cycle femtosecond laser pulses. Journal of Chemical Physics, 2007, 126, 074311.	3.0	35
18	Population inversion in the rotational levels of the superradiant $\text{N}_2^+$ pumped by femtosecond laser pulses. Optics Express, 2017, 25, 4535.	3.4	35

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19	Tunneling ionization of carbon dioxide from lower-lying orbitals. <i>Physical Review A</i> , 2011, 83, .	2.5	34
20	Mechanisms of Strong-Field Double Ionization of Xe. <i>Physical Review Letters</i> , 2014, 113, 103001.	7.8	34
21	Photoelectronic mapping of the spin-orbit interaction of intense light fields. <i>Nature Photonics</i> , 2021, 15, 115-120.	31.4	33
22	Coherent modulation of superradiance from nitrogen ions pumped with femtosecond pulses. <i>Optics Express</i> , 2019, 27, 12638.	3.4	33
23	Field-free alignment of molecules at room temperature. <i>Optics Express</i> , 2006, 14, 4992.	3.4	31
24	Double Ionization of Nitrogen from Multiple Orbitals. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6751-6756.	2.5	30
25	Revealing backward rescattering photoelectron interference of molecules in strong infrared laser fields. <i>Scientific Reports</i> , 2015, 5, 8519.	3.3	30
26	Communication: Determining the structure of the N <sub>2</sub> Ar van der Waals complex with laser-based channel-selected Coulomb explosion. <i>Journal of Chemical Physics</i> , 2014, 140, 141101.	3.0	29
27	Field Ionization of Aliphatic Ketones by Intense Femtosecond Laser. <i>Journal of Physical Chemistry A</i> , 2001, 105, 374-377.	2.5	28
28	Theoretical and Experimental Studies of Water Complexes of p- and o-Aminobenzoic Acid. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2809-2815.	2.5	28
29	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. <i>Physical Review A</i> , 2019, 100, .	2.5	28
30	Photoelectron angular distributions of low-order above-threshold ionization of Xe in the multiphoton regime. <i>Physical Review A</i> , 2012, 85, .	2.5	27
31	Two-color two-photon REMPI and ZEKE spectroscopy of supersonically cooled o-aminobenzoic acid. <i>Chemical Physics Letters</i> , 2004, 398, 351-356.	2.6	26
32	Manipulating molecular rotational wave packets with strong femtosecond laser pulses. <i>Physical Review A</i> , 2008, 77, .	2.5	26
33	Controlling molecular rotational population by wave-packet interference. <i>Journal of Chemical Physics</i> , 2009, 130, 231102.	3.0	26
34	Resonantly enhanced two photon ionization and zero kinetic energy spectroscopy of jet-cooled 4-aminopyridine. <i>Journal of Chemical Physics</i> , 2004, 120, 7497-7504.	3.0	25
35	Molecular-frame photoelectron angular distributions of strong-field tunneling from inner orbitals. <i>Physical Review A</i> , 2013, 88, .	2.5	25
36	Isolating resonant excitation from above-threshold ionization. <i>Physical Review A</i> , 2015, 92, .	2.5	25

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37	Subfemtosecond-resolved modulation of superfluorescence from ionized nitrogen molecules by 800-nm femtosecond laser pulses. <i>Optics Express</i> , 2019, 27, 14922.	3.4	24
38	Laser-induced dissociation and explosion of methane and methanol. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 2575-2582.	1.5	23
39	Zero kinetic energy photoelectron spectroscopy of p-amino benzoic acid. <i>Journal of Chemical Physics</i> , 2004, 121, 3533-3539.	3.0	23
40	Field-Induced Alignment of Oxygen and Nitrogen by Intense Femtosecond Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10179-10184.	2.5	23
41	Optimizing the 391-nm lasing intensity from ionized nitrogen molecules in 800-nm femtosecond laser fields. <i>Physical Review A</i> , 2018, 97, .	2.5	23
42	Ionization and dissociation of alkanes in few-cycle laser fields. <i>Physical Review A</i> , 2007, 75, .	2.5	22
43	Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields. <i>Physical Review A</i> , 2014, 89, .	2.5	22
44	Mass and photoelectron spectrometer for studying field-induced ionization of molecules. <i>International Journal of Mass Spectrometry</i> , 2002, 216, 249-255.	1.5	20
45	Observation of rotamers of m-aminobenzoic acid: Zero kinetic energy photoelectron and hole-burning resonantly enhanced multiphoton ionization spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 121, 8321.	3.0	20
46	Measurement of the Field-Free Alignment of Diatomic Molecules. <i>Journal of Physical Chemistry A</i> , 2008, 112, 612-617.	2.5	20
47	Population dynamics of molecular nitrogen initiated by intense femtosecond laser pulses. <i>Physical Review A</i> , 2015, 92, .	2.5	19
48	Three-body fragmentation of CO <sub>2</sub> driven by intense laser pulses. <i>Journal of Chemical Physics</i> , 2015, 142, 124303.	3.0	19
49	The fast decay of ionized nitrogen molecules in laser filamentation investigated by a picosecond streak camera. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 145101.	1.5	19
50	Molecular Rotational Excitation by Strong Femtosecond Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10610-10618.	2.5	17
51	Vibrationally resolved electron-nuclear energy sharing in above-threshold multiphoton dissociation of CO. <i>Physical Review A</i> , 2016, 94, .	2.5	17
52	Two-color two-photon REMPI and ZEKE photoelectron spectroscopy of jet-cooled 2-chloropyrimidine. <i>Chemical Physics Letters</i> , 2004, 391, 38-43.	2.6	16
53	Long-Range Coulomb Effect in Intense Laser-Driven Photoelectron Dynamics. <i>Scientific Reports</i> , 2016, 6, 27108.	3.3	16
54	Alignment structures of rotational wavepacket created by two strong femtosecond laser pulses. <i>Optics Express</i> , 2010, 18, 8990.	3.4	15

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55	Geometric alignment of CH <sub>3</sub> I in an intense femtosecond laser field. <i>Chemical Physics Letters</i> , 2005, 415, 58-63.	2.6	14
56	A Theoretical and Experimental Study of Water Complexes of m-Aminobenzoic Acid MABA·(H <sub>2</sub> O) <sub>n</sub> (n= 1) Tj ETQq0,0,0 rgBT /Overlock 1	2.5	14
57	Spectroscopic study of laser-induced tunneling ionization of nitrogen molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	14
58	Enhanced Coherent Emission from Ionized Nitrogen Molecules by Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6598-6603.	4.6	14
59	Probing the Spin-Orbit Time Delay of Multiphoton Ionization of Kr by Bicircular Fields. <i>Physical Review Letters</i> , 2021, 126, 223001.	7.8	14
60	Conformational identification of tryptamine embedded in superfluid helium droplets using electronic polarization spectroscopy. <i>Journal of Chemical Physics</i> , 2006, 125, 024305.	3.0	13
61	Field-free molecular alignment and its application. <i>Laser Physics</i> , 2009, 19, 1691-1696.	1.2	13
62	Tunneling electron recaptured by an atomic ion or a molecular ion. <i>Physical Review A</i> , 2013, 88, .	2.5	13
63	Field ionization and Coulomb explosion of methanol in an intense field of a femtosecond laser beam. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 305-313.	1.5	12
64	Stimulated-Raman-scattering-assisted superfluorescence enhancement from ionized nitrogen molecules in 800-nm femtosecond laser fields. <i>Physical Review A</i> , 2018, 98, .	2.5	12
65	Photon retention in coherently excited nitrogen ions. <i>Science Bulletin</i> , 2021, 66, 1511-1517.	9.0	12
66	Two-photon polymerization of gratings by interference of a femtosecond laser pulse. <i>Chemical Physics Letters</i> , 2003, 374, 381-384.	2.6	11
67	Recollision-induced dissociation and ionization of oxygen in few-cycle laser fields. <i>Physical Review A</i> , 2011, 83, .	2.5	11
68	Dynamical coupling of electrons and nuclei for Coulomb explosion of argon trimers in intense laser fields. <i>Physical Review A</i> , 2015, 92, .	2.5	11
69	Nonresonant multiphoton ionization of xenon atoms by femtosecond laser pulses. <i>Chemical Physics</i> , 2019, 523, 52-56.	1.9	11
70	Field-assisted bond stretching of CO in intense laser fields. <i>Physical Review A</i> , 2009, 79, .	2.5	10
71	Multiple ionization of oxygen studied by coincident measurement. <i>Optics Express</i> , 2010, 18, 10395.	3.4	10
72	Identifying isomers of carbon-dioxide clusters by laser-driven Coulomb explosion. <i>Physical Review A</i> , 2014, 90, .	2.5	10

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73	Ultrafast extreme ultraviolet photoemission electron microscope. Review of Scientific Instruments, 2021, 92, 043709.	1.3	10
74	Molecular dynamics of CO in few-cycle laser fields. International Journal of Mass Spectrometry, 2009, 286, 28-31.	1.5	9
75	Differential study on molecular suppressed ionization in intense linearly and circularly polarized laser fields. Physical Review A, 2011, 84, .	2.5	9
76	Dissociative Ionization of Argon Dimer by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2017, 121, 3891-3897.	2.5	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.	3.0	8
79	Dynamic alignment of CO in an intense femtosecond laser field. Chemical Physics Letters, 2005, 406, 116-120.	2.6	8
80	Dissociative double ionization of CO $^{2+}$ induced by intense femtosecond laser pulses. Physical Review A, 2012, 85, .	2.5	8
81	Rotational wave packet of N <sub>2</sub> O created by two strong femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 165508.	1.5	7
82	Fluorescence emission from excited molecular ions in intense femtosecond laser fields. Frontiers of Physics, 2013, 8, 34-38.	5.0	7
83	Formation Mechanism of Excited Neutral Nitrogen Molecules Pumped by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry Letters, 2020, 11, 7702-7708.	4.6	7
84	Dynamic alignment of C <sub>2</sub> H <sub>4</sub> investigated by using two linearly polarized femtosecond laser pulses. Journal of the American Society for Mass Spectrometry, 2006, 17, 1717-1724.	2.8	6
85	Mass spectra of methyl acetate and ethyl formate. Chemical Physics Letters, 2009, 468, 153-157.	2.6	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.	2.8	6
87	Coincidence imaging of photoelectrons and photo-ions of molecules in strong laser fields. Journal of Modern Optics, 2013, 60, 1388-1394.	1.3	6
88	Fully differential study on dissociative ionization dynamics of deuteron molecules in strong elliptical laser fields. Physical Review A, 2017, 95, .	2.5	6
89	Dynamic alignment of O <sub>2</sub> investigated by using two linearly polarized femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1035-1043.	1.5	5
90	Mass spectra of ethylene in intense laser fields. Chemical Physics, 2009, 360, 13-17.	1.9	5

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91	Fully differential measurement on above-threshold ionization of CO and CO <sub>2</sub> molecules in strong laser fields. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 293.	2.1	5
92	Charge oscillation in multiphoton and tunneling ionization of rare-gas dimers. Physical Review A, 2014, 89, .	2.5	5
93	Doubly excited electron-ion angular momentum transfer in parity-unfavored multiphoton ionization. Physical Review A, 2020, 101, .	2.5	5
94	Field induced ionization and Coulomb explosion of carbon disulfide. Optics Communications, 2003, 216, 133-138.	2.1	4
95	Cation vibrational energy levels of 1,3-benzodioxole obtained via zero kinetic energy photoelectron spectroscopy. Chemical Physics Letters, 2005, 402, 212-216.	2.6	4
96	Double ionization of C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>6</sub> molecules irradiated by an intense femtosecond laser field. Chemical Physics Letters, 2005, 404, 370-373.	2.6	4
97	Three-body fragmentation dynamics of carbon-dioxide dimers induced by intense femtosecond laser pulses. Chemical Physics Letters, 2016, 653, 108-111.	2.6	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.	2.2	4
99	Structure of Gas Phase Radical Cation of 1,3,6,8-Tetraazatricyclo[4.4.1.1 <sup>3,8</sup> ] Dodecane Determined from Zero Kinetic Energy Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2005, 109, 959-961.	2.5	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.	2.9	3
101	Quantum effect of laser-induced rescattering from the tunneling barrier. Physical Review A, 2019, 99, .	2.5	3
102	Ramsey interferometry through coherent $A^{2+} + X^{2+} + g + A^{2+} + B^{2+} + \dots$ coupling and population transfer in $N_2^+$ air laser. Optics Letters, 2020, 45, 6587.		
103	Structural determination of argon trimer. AIP Advances, 2015, 5, 097213.	1.3	2
104	FIELD-FREE MOLECULAR ALIGNMENT BY TWO FEMTOSECOND 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. A <b>88</b> , 061401(R) (2013)]. Physical Review A, 2013, 88, .	2.5	1
106	Publisher's Note: Rescattering and frustrated tunneling ionization of atoms in circularly polarized laser fields [Phys. Rev. A <b>89</b> , 013422 (2014)]. Physical Review A, 2014, 89, .	2.5	1
107	Publisher's Note: Subcycle Dynamics of Coulomb Asymmetry in Strong Elliptical Laser Fields [Phys. Rev. Lett. <b>111</b> , 023006 (2013)]. Physical Review Letters, 2014, 112, .	7.8	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	Publisher's Note: Mechanisms of Strong-Field Double Ionization of Xe [Phys. Rev. Lett.113, 103001 (2014)]. Physical Review Letters, 2014, 113, .	7.8	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.	3.4	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.	0.2	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.	0.4	0
118	Electronic quantum coherence in N <sub>2</sub> + air lasing. , 2019, , .		0