

# Jian Wu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3026453/publications.pdf>

Version: 2024-02-01

76  
papers

1,487  
citations

279798

23  
h-index

361022

35  
g-index

76  
all docs

76  
docs citations

76  
times ranked

782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Resolved Ultrashort Delays of Photoelectron Emission Clocked by Orthogonal Two-Color Laser Fields. <i>Physical Review Letters</i> , 2017, 118, 143203.	7.8	78
2	Two-Dimensional Directional Proton Emission in Dissociative Ionization of $H^+$ . <i>Physical Review Letters</i> , 2014, 113, 203001.	7.8	73
3	Femtosecond filamentation and pulse compression in the wake of molecular alignment. <i>Optics Letters</i> , 2008, 33, 2593.	3.3	57
4	All-optical field-free three-dimensional orientation of asymmetric-top molecules. <i>Nature Communications</i> , 2018, 9, 5134.	12.8	57
5	Noncollinear interaction of femtosecond filaments with enhanced third harmonic generation in air. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	54
6	Strong-Field Dissociative Double Ionization of Acetylene. <i>Physical Review Letters</i> , 2014, 112, 243001.	7.8	53
7	Comparison Study of Strong-Field Ionization of Molecules and Atoms by Bicircular Two-Color Femtosecond Laser Pulses. <i>Physical Review Letters</i> , 2017, 119, 203202.	7.8	46
8	Control of femtosecond filamentation by field-free revivals of molecular alignment. <i>Laser Physics</i> , 2009, 19, 1759-1768.	1.2	43
9	Theory of Subcycle Linear Momentum Transfer in Strong-Field Tunneling Ionization. <i>Physical Review Letters</i> , 2020, 125, 073202.	7.8	42
10	Femtosecond laser pulse energy transfer induced by plasma grating due to filament interaction in air. <i>Applied Physics Letters</i> , 2010, 97, 071108.	3.3	41
11	Visualizing molecular unidirectional rotation. <i>Physical Review A</i> , 2015, 92, .	2.5	41
12	Visualizing and Steering Dissociative Frustrated Double Ionization of Hydrogen Molecules. <i>Physical Review Letters</i> , 2017, 119, 253202.	7.8	40
13	Channel-Resolved Above-Threshold Double Ionization of Acetylene. <i>Physical Review Letters</i> , 2015, 114, 163001.	7.8	35
14	Electron-nuclear correlated multiphoton-route to Rydberg fragments of molecules. <i>Nature Communications</i> , 2019, 10, 757.	12.8	34
15	High-order above-threshold dissociation of molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2049-2053.	7.1	33
16	Spatiotemporal rotational dynamics of laser-driven molecules. <i>Advanced Photonics</i> , 2020, 2, 1.	11.8	33
17	Photon Energy Deposition in Strong-Field Single Ionization of Multielectron Molecules. <i>Physical Review Letters</i> , 2016, 117, 103002.	7.8	31
18	Giant Enhancement of Air Lasing by Complete Population Inversion in $N_2$ . <i>Physical Review Letters</i> , 2020, 125, 053201.	7.8	31

#	ARTICLE	IF	CITATIONS
19	Echoes in Space and Time. <i>Physical Review X</i> , 2016, 6, .	8.9	30
20	Wavelength tuning of a few-cycle laser pulse by molecular alignment in femtosecond filamentation wake. <i>Physical Review A</i> , 2009, 79, .	2.5	29
21	Rotational Echoes as a Tool for Investigating Ultrafast Collisional Dynamics of Molecules. <i>Physical Review Letters</i> , 2019, 122, 193401.	7.8	28
22	Intense ultrafast light kick by rotational Raman wake in atmosphere. <i>Applied Physics Letters</i> , 2009, 95, 221502.	3.3	26
23	Asymmetric Attosecond Photoionization in Molecular Shape Resonance. <i>Physical Review X</i> , 2022, 12, .	8.9	24
24	Few-cycle shock $\langle X \rangle$ -wave generation by filamentation in prealigned molecules. <i>Physical Review A</i> , 2009, 80, .	2.5	23
25	Observing collisions beyond the secular approximation limit. <i>Nature Communications</i> , 2019, 10, 5780.	12.8	23
26	Measurement of field-free molecular alignment by cross-defocusing assisted polarization spectroscopy. <i>Optics Express</i> , 2009, 17, 16300.	3.4	20
27	Cavity-enhanced noncollinear high-harmonic generation for extreme ultraviolet frequency combs. <i>Optics Letters</i> , 2007, 32, 3315.	3.3	19
28	Interaction of two parallel femtosecond filaments at different wavelengths in air. <i>Optics Letters</i> , 2009, 34, 3211.	3.3	19
29	Ultrafast optical imaging by molecular wakes. <i>Applied Physics Letters</i> , 2010, 97, 161106.	3.3	19
30	Directional deprotonation ionization of acetylene in asymmetric two-color laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 094007.	1.5	19
31	Dissociative double ionization of CO in orthogonal two-color laser fields. <i>Physical Review A</i> , 2017, 95, .	2.5	18
32	Timing Dissociative Ionization of $\langle H \rangle^2$ Using a Polarization-Skewed Femtosecond Laser Pulse. <i>Physical Review Letters</i> , 2019, 123, 233202.	7.8	18
33	Electron-nuclear correlation in above-threshold double ionization of molecules. <i>Physical Review A</i> , 2017, 95, .	2.5	17
34	Tracking the electron recapture in dissociative frustrated double ionization of $\langle D \rangle^2$ . <i>Physical Review A</i> , 2018, 98, .	2.5	16
35	Femtosecond Resolving Photodissociation Dynamics of the $\langle SO \rangle^2$ Molecule. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3129-3135.	4.6	16
36	The formation of an intense filament controlled by interference of ultraviolet femtosecond pulses. <i>Applied Physics Letters</i> , 2011, 98, 111103.	3.3	15

#	ARTICLE	IF	CITATIONS
37	Air lasing from singly ionized $N$ driven by bicircular two-color fields. <i>Physical Review A</i> , 2019, 99, .	2.5	15
38	Echo in a single vibrationally excited molecule. <i>Nature Physics</i> , 2020, 16, 328-333.	16.7	15
39	Spectral modulation of ultraviolet femtosecond laser pulse by molecular alignment of CO <sub>2</sub> , O <sub>2</sub> , and N <sub>2</sub> . <i>Applied Physics Letters</i> , 2010, 96, .	3.3	13
40	Temporal and phase measurements of ultraviolet femtosecond pulses at 200 nm by molecular alignment based frequency resolved optical gating. <i>Applied Physics Letters</i> , 2011, 99, 011108.	3.3	13
41	Electron trapping in strong-field dissociative frustrated ionization of CO molecules. <i>Physical Review A</i> , 2020, 101, .	2.5	13
42	Photon-number-resolved asymmetric dissociative single ionization of $H_2$ . <i>Physical Review A</i> , 2017, 96, .	2.5	12
43	Longitudinal photon-momentum transfer in strong-field double ionization of argon atoms. <i>Physical Review A</i> , 2020, 101, .	2.5	12
44	Subfemtosecond-pulse generation by rotational molecular modulation and pulse-spacing increase. <i>Physical Review A</i> , 2003, 68, .	2.5	11
45	Seeded amplification of colored conical emission via spatiotemporal modulational instability. <i>Applied Physics Letters</i> , 2005, 87, 061102.	3.3	11
46	Orbital-resolved strong-field single ionization of acetylene. <i>Physical Review A</i> , 2015, 92, .	2.5	11
47	Strong-field dissociative Rydberg excitation of oxygen molecules: Electron-nuclear correlation. <i>Physical Review A</i> , 2019, 100, .	2.5	10
48	Disentangling the role of laser coupling in directional breaking of molecules. <i>Physical Review A</i> , 2016, 94, .	2.5	9
49	Low-Energy Protons in Strong-Field Dissociation of $H_2^+$ via Dipole-Transitions at Large Bond Lengths. <i>Ultrafast Science</i> , 2022, 2022, .	11.2	9
50	Echoes in unidirectionally rotating molecules. <i>Physical Review A</i> , 2020, 102, .	2.5	8
51	Clocking Dissociative Above-Threshold Double Ionization of $H_2$ in a Multicycle Laser Pulse. <i>Physical Review Letters</i> , 2021, 126, 063201.	7.8	8
52	Light-Induced Ultrafast Molecular Dynamics: From Photochemistry to Optochemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5881-5893.	4.6	8
53	Prompt and delayed Coulomb explosion of doubly ionized hydrogen chloride molecules in intense femtosecond laser fields. <i>Physical Review A</i> , 2018, 97, .	2.5	7
54	Correlated electron-nuclear dynamics of molecules in strong laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 162001.	1.5	7

#	ARTICLE	IF	CITATIONS
55	Influence of nonadiabatic, nondipole and quantum effects on the attoclock signal. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 144001.	1.5	7
56	Femtosecond Dynamics of a Polariton Bosonic Cascade at Room Temperature. <i>Nano Letters</i> , 2022, 22, 2023-2029.	9.1	7
57	Subfemtosecond pulse generation and multiplicative increase of pulse spacing in high-order stimulated Raman scattering. <i>Optics Letters</i> , 2003, 28, 1052.	3.3	6
58	Manipulation of plasma grating by impulsive molecular alignment. <i>Applied Physics Letters</i> , 2013, 103, 221113.	3.3	6
59	Angle-resolved Rabi flopping in strong-field dissociation of molecules. <i>Physical Review A</i> , 2021, 103, .	2.5	6
60	Single-shot imaging of surface molecular ionization in nanosystems. <i>Nanophotonics</i> , 2021, 10, 2651-2660.	6.0	6
61	Ultrafast dynamics of exciton-polariton in optically tailored potential landscapes at room temperature. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 024001.	1.8	6
62	Observation of photon-nucleus angular-momentum transfer in the strong-field breaking of molecules. <i>Physical Review A</i> , 2019, 99, .	2.5	5
63	Dissociative frustrated multiple ionization of hydrogen chloride in intense femtosecond laser fields. <i>Physical Review A</i> , 2019, 99, .	2.5	5
64	Echo-assisted impulsive alignment of room-temperature acetone molecules. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
65	Transient Valence Charge Localization in Strong-Field Dissociative Ionization of HCl Molecules. <i>Physical Review Letters</i> , 2021, 127, 183201.	7.8	5
66	Surface-enhanced high-harmonic generation: a promising approach for extreme ultraviolet frequency combs. <i>Optics Letters</i> , 2008, 33, 2050.	3.3	4
67	Molecular quantum wakes in the hydrodynamic plasma waveguide in air. <i>Physical Review A</i> , 2010, 82, .	2.5	4
68	Subcycle characterization of photoelectron emission with multicycle laser pulses. <i>Physical Review A</i> , 2017, 96, .	2.5	4
69	Dissociative frustrated double ionization of $N_2$ Ar dimers in strong laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 035601.	1.5	4
70	Excitation-polarization-dependent dynamics of polariton condensates in the ZnO microwire at room temperature. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 22LT01.	1.8	4
71	Photoluminescence Switching Effect in a Two-Dimensional Atomic Crystal. <i>ACS Nano</i> , 2021, 15, 19439-19445.	14.6	4
72	Subfemtosecond pulse generation in a three-level system by molecular modulation. <i>Physical Review A</i> , 2003, 68, .	2.5	3

#	ARTICLE	IF	CITATIONS
73	Molecular wakes for ultrashort laser pulses. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1036-1039.	5.1	2
74	Subfemtosecond pulse generation by nonadiabatic molecular modulation. Applied Physics Letters, 2003, 83, 2127-2129.	3.3	1
75	Characterization of elliptically polarized femtosecond pulses by molecular-alignment-based frequency resolved optical gating. Applied Physics B: Lasers and Optics, 2012, 108, 761-766.	2.2	0
76	Imaging Rydberg States of Atoms and Molecules with a Weak DC Field. , 2019, , .		0