

Jian Wu

List of Publications by Year in descending order

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76
papers

1,487
citations

279798

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76
times ranked

782
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Asymmetric Attosecond Photoionization in Molecular Shape Resonance. <i>Physical Review X</i> , 2022, 12, .	8.9	24
3	Femtosecond Dynamics of a Polariton Bosonic Cascade at Room Temperature. <i>Nano Letters</i> , 2022, 22, 2023-2029.	9.1	7
4	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
5	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
6	Light-Induced Ultrafast Molecular Dynamics: From Photochemistry to Optochemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5881-5893.	4.6	8
7	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
8	Angle-resolved Rabi flopping in strong-field dissociation of molecules. <i>Physical Review A</i> , 2021, 103, .	2.5	6
9	Echo-assisted impulsive alignment of room-temperature acetone molecules. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
10	Single-shot imaging of surface molecular ionization in nanosystems. <i>Nanophotonics</i> , 2021, 10, 2651-2660.	6.0	6
11	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
12	Transient Valence Charge Localization in Strong-Field Dissociative Ionization of HCl Molecules. <i>Physical Review Letters</i> , 2021, 127, 183201.	7.8	5
13	Photoluminescence Switching Effect in a Two-Dimensional Atomic Crystal. <i>ACS Nano</i> , 2021, 15, 19439-19445.	14.6	4
14	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
15	Giant Enhancement of Air Lasing by Complete Population Inversion in N_2^+Ar . <i>Physical Review Letters</i> , 2020, 125, 053201.	7.8	31
16	Theory of Subcycle Linear Momentum Transfer in Strong-Field Tunneling Ionization. <i>Physical Review Letters</i> , 2020, 125, 073202.	7.8	42
17	Echoes in unidirectionally rotating molecules. <i>Physical Review A</i> , 2020, 102, .	2.5	8
18	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

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19	Longitudinal photon-momentum transfer in strong-field double ionization of argon atoms. Physical Review A, 2020, 101, .	2.5	12
20	Electron trapping in strong-field dissociative frustrated ionization of CO molecules. Physical Review A, 2020, 101, .	2.5	13
21	Echo in a single vibrationally excited molecule. Nature Physics, 2020, 16, 328-333.	16.7	15
22	Femtosecond Resolving Photodissociation Dynamics of the SO_2 Molecule. Journal of Physical Chemistry Letters, 2020, 11, 3129-3135.	4.6	16
23	Spatiotemporal rotational dynamics of laser-driven molecules. Advanced Photonics, 2020, 2, 1.	11.8	33
24	Observation of photon-nucleus angular-momentum transfer in the strong-field breaking of molecules. Physical Review A, 2019, 99, .	2.5	5
25	Rotational Echoes as a Tool for Investigating Ultrafast Collisional Dynamics of Molecules. Physical Review Letters, 2019, 122, 193401.	7.8	28
26	Air lasing from singly ionized N^2 driven by bicircular two-color fields. Physical Review A, 2019, 99, .	2.5	15
27	Dissociative frustrated multiple ionization of hydrogen chloride in intense femtosecond laser fields. Physical Review A, 2019, 99, .	2.5	5
28	Electron-nuclear correlated multiphoton-route to Rydberg fragments of molecules. Nature Communications, 2019, 10, 757.	12.8	34
29	Imaging Rydberg States of Atoms and Molecules with a Weak DC Field. , 2019, , .		0
30	Observing collisions beyond the secular approximation limit. Nature Communications, 2019, 10, 5780.	12.8	23
31	Strong-field dissociative Rydberg excitation of oxygen molecules: Electron-nuclear correlation. Physical Review A, 2019, 100, .	2.5	10
32	Timing Dissociative Ionization of H_2 Using a Polarization-Skewed Femtosecond Laser Pulse. Physical Review Letters, 2019, 123, 233202.	7.8	18
33	High-order above-threshold dissociation of molecules. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2049-2053.	7.1	33
34	All-optical field-free three-dimensional orientation of asymmetric-top molecules. Nature Communications, 2018, 9, 5134.	12.8	57
35	Tracking the electron recapture in dissociative frustrated double ionization of D_2 . Physical Review A, 2018, 98, .	2.5	16
36	Prompt and delayed Coulomb explosion of doubly ionized hydrogen chloride molecules in intense femtosecond laser fields. Physical Review A, 2018, 97, .	2.5	7

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37	Electron-nuclear correlation in above-threshold double ionization of molecules. <i>Physical Review A</i> , 2017, 95, .	2.5	17
38	Dissociative double ionization of CO in orthogonal two-color laser fields. <i>Physical Review A</i> , 2017, 95, .	2.5	18
39	Photon-number-resolved asymmetric dissociative single ionization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review A</i> , 2017, 96, .	2.5	12
40	Subcycle characterization of photoelectron emission with multicycle laser pulses. <i>Physical Review A</i> , 2017, 96, .	2.5	4
41	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
42	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
43	Visualizing and Steering Dissociative Frustrated Double Ionization of Hydrogen Molecules. <i>Physical Review Letters</i> , 2017, 119, 253202.	7.8	40
44	Echoes in Space and Time. <i>Physical Review X</i> , 2016, 6, .	8.9	30
45	Photon Energy Deposition in Strong-Field Single Ionization of Multielectron Molecules. <i>Physical Review Letters</i> , 2016, 117, 103002.	7.8	31
46	Disentangling the role of laser coupling in directional breaking of molecules. <i>Physical Review A</i> , 2016, 94, .	2.5	9
47	Visualizing molecular unidirectional rotation. <i>Physical Review A</i> , 2015, 92, .	2.5	41
48	Orbital-resolved strong-field single ionization of acetylene. <i>Physical Review A</i> , 2015, 92, .	2.5	11
49	Channel-Resolved Above-Threshold Double Ionization of Acetylene. <i>Physical Review Letters</i> , 2015, 114, 163001.	7.8	35
50	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
51	Two-Dimensional Directional Proton Emission in Dissociative Ionization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. <i>Physical Review Letters</i> , 2014, 113, 203001.	7.8	73
52	Strong-Field Dissociative Double Ionization of Acetylene. <i>Physical Review Letters</i> , 2014, 112, 243001.	7.8	53
53	Manipulation of plasma grating by impulsive molecular alignment. <i>Applied Physics Letters</i> , 2013, 103, 221113.	3.3	6
54	Characterization of elliptically polarized femtosecond pulses by molecular-alignment-based frequency resolved optical gating. <i>Applied Physics B: Lasers and Optics</i> , 2012, 108, 761-766.	2.2	0

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55	The formation of an intense filament controlled by interference of ultraviolet femtosecond pulses. Applied Physics Letters, 2011, 98, 111103.	3.3	15
56	Temporal and phase measurements of ultraviolet femtosecond pulses at 200 nm by molecular alignment based frequency resolved optical gating. Applied Physics Letters, 2011, 99, 011108.	3.3	13
57	Molecular quantum wakes in the hydrodynamic plasma waveguide in air. Physical Review A, 2010, 82, .	2.5	4
58	Molecular wakes for ultrashort laser pulses. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1036-1039.	5.1	2
59	Spectral modulation of ultraviolet femtosecond laser pulse by molecular alignment of CO ₂ , O ₂ , and N ₂ . Applied Physics Letters, 2010, 96, .	3.3	13
60	Ultrafast optical imaging by molecular wakes. Applied Physics Letters, 2010, 97, 161106.	3.3	19
61	Femtosecond laser pulse energy transfer induced by plasma grating due to filament interaction in air. Applied Physics Letters, 2010, 97, 071108.	3.3	41
62	Wavelength tuning of a few-cycle laser pulse by molecular alignment in femtosecond filamentation wake. Physical Review A, 2009, 79, .	2.5	29
63	Intense ultrafast light kick by rotational Raman wake in atmosphere. Applied Physics Letters, 2009, 95, 221502.	3.3	26
64	Control of femtosecond filamentation by field-free revivals of molecular alignment. Laser Physics, 2009, 19, 1759-1768.	1.2	43
65	Interaction of two parallel femtosecond filaments at different wavelengths in air. Optics Letters, 2009, 34, 3211.	3.3	19
66	Measurement of field-free molecular alignment by cross-defocusing assisted polarization spectroscopy. Optics Express, 2009, 17, 16300.	3.4	20
67	Few-cycle shock X -wave generation by filamentation in prealigned molecules. Physical Review A, 2009, 80, .	2.5	23
68	Noncollinear interaction of femtosecond filaments with enhanced third harmonic generation in air. Applied Physics Letters, 2009, 95, .	3.3	54
69	Surface-enhanced high-harmonic generation: a promising approach for extreme ultraviolet frequency combs. Optics Letters, 2008, 33, 2050.	3.3	4
70	Femtosecond filamentation and pulse compression in the wake of molecular alignment. Optics Letters, 2008, 33, 2593.	3.3	57
71	Cavity-enhanced noncollinear high-harmonic generation for extreme ultraviolet frequency combs. Optics Letters, 2007, 32, 3315.	3.3	19
72	Seeded amplification of colored conical emission via spatiotemporal modulational instability. Applied Physics Letters, 2005, 87, 061102.	3.3	11

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73	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
74	Subfemtosecond pulse generation by nonadiabatic molecular modulation. <i>Applied Physics Letters</i> , 2003, 83, 2127-2129.	3.3	1
75	Subfemtosecond-pulse generation by rotational molecular modulation and pulse-spacing increase. <i>Physical Review A</i> , 2003, 68, .	2.5	11
76	Subfemtosecond pulse generation in a three-level system by molecular modulation. <i>Physical Review A</i> , 2003, 68, .	2.5	3