

Jinping

List of Publications by Year in descending order

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90
papers

2,002
citations

236925

25
h-index

276875

41
g-index

91
all docs

91
docs citations

91
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Background-free single-beam coherent Raman spectroscopy assisted by air lasing. Optics Letters, 2022, 47, 481.	3.3	13
2	High-Sensitivity Gas Detection with Air-Lasing-Assisted Coherent Raman Spectroscopy. Ultrafast Science, 2022, 2022, .	11.2	57
3	Ultraviolet supercontinuum generation driven by ionic coherence in a strong laser field. Nature Communications, 2022, 13, .	12.8	14
4	Retrieval of molecular alignment and identification of multiple-orbital contribution by using polarized high harmonics from aligned N_2 molecules. Optics Express, 2021, 29, 1613.	3.4	7
5	A spectrally bright wavelength-switchable vacuum ultraviolet source driven by quantum coherence in strong-field-ionized molecules. New Journal of Physics, 2021, 23, 023005.	2.9	3
6	Electronic quantum coherence encoded in temporal structures of N_2^+ lasing. Physical Review A, 2021, 103, .	2.5	3
7	Observation of rotational coherence in an excited state of CO^+ . Optics Letters, 2021, 46, 3893.	3.3	3
8	Photon retention in coherently excited nitrogen ions. Science Bulletin, 2021, 66, 1511-1517.	9.0	12
9	Controlling the collective radiative decay of molecular ions in strong laser fields. Photonics Research, 2021, 9, 2046.	7.0	8
10	Sub-cycle coherent control of ionic dynamics via transient ionization injection. Communications Physics, 2020, 3, .	5.3	35
11	Extremely nonlinear Raman interaction of an ultrashort nitrogen ion laser with an impulsively excited molecular wave packet. Physical Review A, 2020, 101, .	2.5	16
12	Role of rotational coherence in femtosecond-pulse-driven nitrogen ion lasing. Physical Review Research, 2020, 2, .	3.6	19
13	Nonsequential double ionization of alkaline-earth metal atoms by intense mid-infrared femtosecond pulses. Optics Express, 2020, 28, 19325.	3.4	5
14	Mechanism and control of rotational coherence in femtosecond laser-driven N_2^+ . Optics Express, 2020, 28, 22829.	3.4	5
15	Enhanced resonant vibrational Raman scattering of N_2^+ induced by self-seeding ionic lasers created in polarization-modulated intense laser fields. Optics Letters, 2020, 45, 5616.	3.3	10
16	Comparative study of strong-field ionization of alkaline-earth-metal atoms. Physical Review A, 2020, 101, .	2.5	5
17	Wavelength-dependent nonsequential double ionization of magnesium by intense femtosecond laser pulses. Physical Review A, 2019, 100, .	2.5	12
18	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. Physical Review A, 2019, 100, .	2.5	28

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19	Air lasing from singly ionized N driven by bicircular two-color fields. <i>Physical Review A</i> , 2019, 99, .	2.5	15
20	Recent Advances in Air Lasing: A Perspective from Quantum Coherence. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900080.	3.9	26
21	Vibrational population transfer between electronic states of N_2 in polarization-modulated intense laser fields. <i>Physical Review A</i> , 2019, 100, .	2.5	14
22	Spectrum- and time-resolved investigation of pre-excited argon atoms. <i>Physical Review A</i> , 2019, 100, .	2.5	2
23	Polarization ellipticity dependence of N_2^+ air lasing: the role of coupling between the ground state and a photo-excited intermediate state. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, G57.	2.1	7
24	Vibrational Raman scattering from coherently excited molecular ions in a strong laser field. <i>Optics Express</i> , 2019, 27, 18262.	3.4	10
25	Electronic quantum coherence in N_2 + air lasing. , 2019, , .		0
26	Near-Resonant Raman Amplification in the Rotational Quantum Wave Packets of Nitrogen Molecular Ions Generated by Strong Field Ionization. <i>Physical Review Letters</i> , 2018, 120, 083205.	7.8	35
27	An anatomy of strong-field ionization-induced air lasing. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	30
28	Free-space \hat{I}_2^+ lasers generated in strong laser fields: the role of molecular vibration. <i>Optics Express</i> , 2018, 26, 13331.	3.4	10
29	Generation of Raman lasers from nitrogen molecular ions driven by ultraintense laser fields. <i>New Journal of Physics</i> , 2018, 20, 033035.	2.9	19
30	Nonlinear interaction of femtosecond laser pulses with a CO ₂ -laser-induced air spark. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 155601.	1.5	2
31	Intensity-independent molecular rotational decoherence lifetimes measured with mean wavelength shifts of femtosecond pulses. <i>Chinese Optics Letters</i> , 2018, 16, 120201.	2.9	1
32	Range extension in laser-induced breakdown spectroscopy using femtosecond–nanosecond dual-beam laser system. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	5
33	Wavelength scaling of atomic nonsequential double ionization in intense laser fields. <i>Physical Review A</i> , 2017, 95, .	2.5	19
34	Nonperturbative generation of above-threshold harmonics from pre-excited argon atoms in intense mid-infrared laser fields. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	2
35	Atmospheric lasing induced by strong-field photoionization. , 2016, , .		0
36	Population Redistribution Among Multiple Electronic States of Molecular Nitrogen Ions in Strong Laser Fields. <i>Physical Review Letters</i> , 2016, 116, 143007.	7.8	132

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37	Generation of elliptically polarized nitrogen ion laser fields using two-color femtosecond laser pulses. <i>Scientific Reports</i> , 2016, 6, 21504.	3.3	5
38	Comparative investigations of the spontaneous and stimulated emissions from nitrogen molecules in air with femtosecond laser excitation pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 065602.	1.5	3
39	Fabrication of a microresonator-fiber assembly maintaining a high-quality factor by CO ₂ laser welding. <i>Optics Express</i> , 2015, 23, 27941.	3.4	7
40	Onset of nonlinear self-focusing of femtosecond laser pulses in air: Conventional vs spatiotemporal focusing. <i>Physical Review A</i> , 2015, 92, .	2.5	7
41	Mid-infrared ultrafast laser pulses induced third harmonic generation in nitrogen molecules on an excited state. <i>Scientific Reports</i> , 2015, 5, 16006.	3.3	7
42	Time-resolved shadowgraphs of transient plasma induced by spatiotemporally focused femtosecond laser pulses in fused silica glass. <i>Optics Letters</i> , 2015, 40, 5726.	3.3	16
43	Dynamic wavelength switching of a remote nitrogen or air laser with chirped femtosecond laser pulses. <i>Laser Physics Letters</i> , 2015, 12, 015301.	1.4	8
44	Free-space air molecular lasing from highly excited vibrational states pumped by circularly-polarized femtosecond laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 094001.	1.5	6
45	Backward nitrogen lasing actions induced by femtosecond laser filamentation: influence of duration of gain. <i>New Journal of Physics</i> , 2015, 17, 073009.	2.9	9
46	Wavelength-dependent ionization suppression of diatomic molecules in intense circularly polarized laser fields. <i>Physical Review A</i> , 2014, 90, .	2.5	11
47	Impulsive rotational Raman scattering of N ₂ by a remote air laser in femtosecond laser filament. <i>Optics Letters</i> , 2014, 39, 2250.	3.3	32
48	Gain dynamics of a free-space nitrogen laser pumped by circularly polarized femtosecond laser pulses. <i>Optics Express</i> , 2014, 22, 19005.	3.4	48
49	Generation of an air laser at extended distances by femtosecond laser filamentation with telescope optics. <i>Optics Express</i> , 2014, 22, 3151.	3.4	23
50	Quantum path selection in high-order harmonic generation from aligned molecules. <i>Optics Express</i> , 2014, 22, 7947.	3.4	5
51	Lasing action induced by femtosecond laser filamentation in ethanol flame for combustion diagnosis. <i>Applied Physics Letters</i> , 2014, 104, 091106.	3.3	34
52	Coupling of rotational states in an air laser from tunnel-ionized nitrogen molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	36
53	Real-time observation of dynamics in rotational molecular wave packets by use of air-laser spectroscopy. <i>Physical Review A</i> , 2014, 89, .	2.5	37
54	Signature of superradiance from a nitrogen-gas plasma channel produced by strong-field ionization. <i>Physical Review A</i> , 2014, 89, .	2.5	63

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55	A self-induced white light seeding laser in a femtosecond laser filament. <i>Laser Physics Letters</i> , 2014, 11, 015301.	1.4	46
56	Second harmonic generation in centrosymmetric gas with spatiotemporally focused intense femtosecond laser pulses. <i>Optics Letters</i> , 2014, 39, 961.	3.3	24
57	Rotational Coherence Encoded in an "Air-Laser" Spectrum of Nitrogen Molecular Ions in an Intense Laser Field. <i>Physical Review X</i> , 2013, 3, .	8.9	75
58	Alignment-Dependent Fluorescence Emission Induced by Tunnel Ionization of Carbon Dioxide from Lower-Lying Orbitals. <i>Physical Review Letters</i> , 2013, 111, 133001.	7.8	35
59	Remote creation of coherent emissions in air with two-color ultrafast laser pulses. <i>New Journal of Physics</i> , 2013, 15, 023046.	2.9	91
60	Enhanced narrow-bandwidth emission during high-order harmonic generation from aligned molecules. <i>Optics Express</i> , 2013, 21, 3259.	3.4	5
61	Identification of the physical mechanism of generation of coherent N ₂ ⁺ emissions in air by femtosecond laser excitation. <i>Optics Express</i> , 2013, 21, 8746.	3.4	61
62	Influence of ionization suppression on high-harmonic generation in molecules: Dependence of cutoff energy on driver wavelength. <i>Physical Review A</i> , 2013, 88, .	2.5	6
63	Abnormal dependence of strong-field-ionization-induced nitrogen lasing on polarization ellipticity of the driving field. <i>Physical Review A</i> , 2013, 88, .	2.5	14
64	Enhanced harmonic emission from a polar molecule medium driven by few-cycle laser pulses. <i>Optics Express</i> , 2012, 20, 26521.	3.4	1
65	Control of bandwidth and central wavelength of an enhanced extreme ultraviolet spectrum generated in shaped laser field. <i>Optics Express</i> , 2012, 20, 16544.	3.4	7
66	Harmonic-seeded remote laser emissions in N ₂ -Ar, N ₂ -Xe and N ₂ -Ne mixtures: a comparative study. <i>Optics Express</i> , 2012, 20, 20970.	3.4	26
67	Direct generation of intense extreme-ultraviolet supercontinuum with 35-fs, 11-mJ pulses from a femtosecond laser amplifier. <i>Physical Review A</i> , 2012, 85, .	2.5	12
68	Unexpected breakdown of the simple man's model for strong-field photoionization in the high-energy recollision region. <i>Physical Review A</i> , 2012, 85, .	2.5	11
69	Multiwavelength amplified harmonic emissions from carbon dioxide pumped by mid-infrared femtosecond laser pulses. <i>Europhysics Letters</i> , 2012, 97, 64004.	2.0	24
70	Enhancement of third harmonic generation in femtosecond laser induced filamentation " comparison of results obtained with plasma and a pair of glass plates. <i>Journal of Modern Optics</i> , 2012, 59, 245-249.	1.3	20
71	Generation of isolated attosecond pulses of sub-atomic-time durations with multi-cycle chirped polarization gating pulses. <i>Optics Express</i> , 2012, 20, 24642.	3.4	5
72	Ionization Suppression of Diatomic Molecules in an Intense Midinfrared Laser Field. <i>Physical Review Letters</i> , 2012, 108, 223001.	7.8	51

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73	Three-dimensional manipulation of femtosecond filament direction with an air bubble in water. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 075205.	2.2	1
74	Direct observation of broadband conical emission along femtosecond-laser-induced rainbow filament in silver-nanoparticle-doped water. <i>Journal of Modern Optics</i> , 2012, 59, 1569-1573.	1.3	5
75	High-brightness switchable multiwavelength remote laser in air. <i>Physical Review A</i> , 2011, 84, .	2.5	233
76	Enhancement of peak intensity in a filament core with spatiotemporally focused femtosecond laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	38
77	Control of filament branching in air by astigmatically focused femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 435-439.	2.2	19
78	Third-harmonic generation in relative-phase-controlled two-color laser field. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 909-912.	2.2	7
79	Comparative investigation of third- and fifth-harmonic generation in atomic and molecular gases driven by midinfrared ultrafast laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	26
80	Generation of narrow-bandwidth, tunable, coherent xuv radiation using high-order harmonic generation. <i>Physical Review A</i> , 2011, 83, .	2.5	11
81	A systematic investigation of high harmonic generation using mid-infrared driving laser pulses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1054-1059.	5.1	6
82	Generation of an XUV supercontinuum by optimization of the angle between polarization planes of two linearly polarized pulses in a multicycle two-color laser field. <i>Physical Review A</i> , 2010, 82, .	2.5	11
83	Phase-matched high-order harmonic generation in a gas cell with midinfrared femtosecond pulses. <i>Physical Review A</i> , 2009, 79, .	2.5	23
84	Single attosecond pulse generation from aligned molecules using two-color polarization gating. <i>Physical Review A</i> , 2009, 80, .	2.5	16
85	Generation of an intense single isolated attosecond pulse by use of two-colour waveform control. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 145604.	1.5	6
86	Generation of a coherent x ray in the water window region at 1 kHz repetition rate using a mid-infrared pump source. <i>Optics Letters</i> , 2009, 34, 1747.	3.3	64
87	Generation of extended filaments of femtosecond pulses in air by use of a single-step phase plate. <i>Optics Letters</i> , 2009, 34, 3752.	3.3	45
88	Formation of X-waves at fundamental and harmonics by infrared femtosecond pulse filamentation in air. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	7
89	Fine interference fringes formed in high-order harmonic spectra generated by infrared driving laser pulses. <i>Physical Review A</i> , 2008, 78, .	2.5	28
90	Nonintrusive temperature measurement of a combustion field by femtosecond laser-induced third harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 0, , .	1.5	1