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List of Publications by Year in descending order

Version: 2024-02-01

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	High-brightness switchable multiwavelength remote laser in air. Physical Review A, 2011, 84, .	2.5	233
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	Remote creation of coherent emissions in air with two-color ultrafast laser pulses. New Journal of Physics, 2013, 15, 023046.	2.9	91
4	Rotational Coherence Encoded in an â€œAir-Laserâ€•Spectrum of Nitrogen Molecular Ions in an Intense Laser Field. Physical Review X, 2013, 3, .	8.9	75
5	Generation of a coherent x ray in the water window region at 1 kHz repetition rate using a mid-infrared pump source. Optics Letters, 2009, 34, 1747.	3.3	64
6	Signature of superradiance from a nitrogen-gas plasma channel produced by strong-field ionization. Physical Review A, 2014, 89, .	2.5	63
7	Identification of the physical mechanism of generation of coherent N_2 ^+ emissions in air by femtosecond laser excitation. Optics Express, 2013, 21, 8746.	3.4	61
8	High-Sensitivity Gas Detection with Air-Lasing-Assisted Coherent Raman Spectroscopy. Ultrafast Science, 2022, 2022, .	11.2	57
9	Ionization Suppression of Diatomic Molecules in an Intense Midinfrared Laser Field. Physical Review Letters, 2012, 108, 223001.	7.8	51
10	Gain dynamics of a free-space nitrogen laser pumped by circularly polarized femtosecond laser pulses. Optics Express, 2014, 22, 19005.	3.4	48
11	A self-induced white light seeding laser in a femtosecond laser filament. Laser Physics Letters, 2014, 11, 015301.	1.4	46
12	Generation of extended filaments of femtosecond pulses in air by use of a single-step phase plate. Optics Letters, 2009, 34, 3752.	3.3	45
13	Enhancement of peak intensity in a filament core with spatiotemporally focused femtosecond laser pulses. Physical Review A, 2011, 84, .	2.5	38
14	Real-time observation of dynamics in rotational molecular wave packets by use of air-laser spectroscopy. Physical Review A, 2014, 89, .	2.5	37
15	Coupling of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msubsup><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:mrow></mml:math>rotation states in an air laser from tunnel-ionized nitrogen molecules. Physical Review A, 2014, 90, .	2.5	36
16	Alignment-Dependent Fluorescence Emission Induced by Tunnel Ionization of Carbon Dioxide from Lower-Lying Orbitals. Physical Review Letters, 2013, 111, 133001.	7.8	35
17	Near-Resonant Raman Amplification in the Rotational Quantum Wave Packets of Nitrogen Molecular Ions Generated by Strong Field Ionization. Physical Review Letters, 2018, 120, 083205.	7.8	35
18	Sub-cycle coherent control of ionic dynamics via transient ionization injection. Communications Physics, 2020, 3, .	5.3	35

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19	Lasing action induced by femtosecond laser filamentation in ethanol flame for combustion diagnosis. Applied Physics Letters, 2014, 104, 091106.	3.3	34
20	Impulsive rotational Raman scattering of N_2 by a remote â€œair laserâ€•in femtosecond laser filament. Optics Letters, 2014, 39, 2250.	3.3	32
21	An anatomy of strong-field ionization-induced air lasing. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	30
22	Fine interference fringes formed in high-order harmonic spectra generated by infrared driving laser pulses. Physical Review A, 2008, 78, .	2.5	28
23	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. Physical Review A, 2019, 100, .	2.5	28
24	Comparative investigation of third- and fifth-harmonic generation in atomic and molecular gases driven by midinfrared ultrafast laser pulses. Physical Review A, 2011, 84, .	2.5	26
25	Harmonic-seeded remote laser emissions in N_2-Ar, N_2-Xe and N_2-Ne mixtures: a comparative study. Optics Express, 2012, 20, 20970.	3.4	26
26	Recent Advances in Air Lasing: A Perspective from Quantum Coherence. Advanced Quantum Technologies, 2019, 2, 1900080.	3.9	26
27	Multiwavelength amplified harmonic emissions from carbon dioxide pumped by mid-infrared femtosecond laser pulses. Europhysics Letters, 2012, 97, 64004.	2.0	24
28	Second harmonic generation in centrosymmetric gas with spatiotemporally focused intense femtosecond laser pulses. Optics Letters, 2014, 39, 961.	3.3	24
29	Phase-matched high-order harmonic generation in a gas cell with midinfrared femtosecond pulses. Physical Review A, 2009, 79, .	2.5	23
30	Generation of an air laser at extended distances by femtosecond laser filamentation with telescope optics. Optics Express, 2014, 22, 3151.	3.4	23
31	Enhancement of third harmonic generation in femtosecond laser induced filamentation â€“ comparison of results obtained with plasma and a pair of glass plates. Journal of Modern Optics, 2012, 59, 245-249.	1.3	20
32	Control of filament branching in air by astigmatically focused femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2011, 103, 435-439.	2.2	19
33	Wavelength scaling of atomic nonsequential double ionization in intense laser fields. Physical Review A, 2017, 95, .	2.5	19
34	Generation of Raman lasers from nitrogen molecular ions driven by ultraintense laser fields. New Journal of Physics, 2018, 20, 033035.	2.9	19
35	Role of rotational coherence in femtosecond-pulse-driven nitrogen ion lasing. Physical Review Research, 2020, 2, .	3.6	19
36	Single attosecond pulse generation from aligned molecules using two-color polarization gating. Physical Review A, 2009, 80, .	2.5	16

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37	Time-resolved shadowgraphs of transient plasma induced by spatiotemporally focused femtosecond laser pulses in fused silica glass. Optics Letters, 2015, 40, 5726.	3.3	16
38	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
39	Air lasing from singly ionized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> driven by bicircular two-color fields. Physical Review A, 2019, 99, .	2.5	15
40	Abnormal dependence of strong-field-ionization-induced nitrogen lasing on polarization ellipticity of the driving field. Physical Review A, 2013, 88, .	2.5	14
41	Vibrational population transfer between electronic states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:m in polarization-modulated intense laser fields. Physical Review A, 2019, 100, .	2.5	14
42	Ultraviolet supercontinuum generation driven by ionic coherence in a strong laser field. Nature Communications, 2022, 13, .	12.8	14
43	Background-free single-beam coherent Raman spectroscopy assisted by air lasing. Optics Letters, 2022, 47, 481.	3.3	13
44	Direct generation of intense extreme-ultraviolet supercontinuum with 35-fs, 11-mJ pulses from a femtosecond laser amplifier. Physical Review A, 2012, 85, .	2.5	12
45	Wavelength-dependent nonsequential double ionization of magnesium by intense femtosecond laser pulses. Physical Review A, 2019, 100, .	2.5	12
46	Photon retention in coherently excited nitrogen ions. Science Bulletin, 2021, 66, 1511-1517.	9.0	12
47	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. Physical Review A, 2010, 82, .	2.5	11
48	Generation of narrow-bandwidth, tunable, coherent xuv radiation using high-order harmonic generation. Physical Review A, 2011, 83, .	2.5	11
49	Unexpected breakdown of the simple man's model for strong-field photoionization in the high-energy recollision region. Physical Review A, 2012, 85, .	2.5	11
50	Wavelength-dependent ionization suppression of diatomic molecules in intense circularly polarized laser fields. Physical Review A, 2014, 90, .	2.5	11
51	Free-space I_2^+ lasers generated in strong laser fields: the role of molecular vibration. Optics Express, 2018, 26, 13331.	3.4	10
52	Vibrational Raman scattering from coherently excited molecular ions in a strong laser field. Optics Express, 2019, 27, 18262.	3.4	10
53	Enhanced resonant vibrational Raman scattering of N₂⁺ induced by self-seeding ionic lasers created in polarization-modulated intense laser fields. Optics Letters, 2020, 45, 5616.	3.3	10
54	Backward nitrogen lasing actions induced by femtosecond laser filamentation: influence of duration of gain. New Journal of Physics, 2015, 17, 073009.	2.9	9

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55	Dynamic wavelength switching of a remote nitrogen or air laser with chirped femtosecond laser pulses. Laser Physics Letters, 2015, 12, 015301.	1.4	8
56	Controlling the collective radiative decay of molecular ions in strong laser fields. Photonics Research, 2021, 9, 2046.	7.0	8
57	Formation of X-waves at fundamental and harmonics by infrared femtosecond pulse filamentation in air. Applied Physics Letters, 2008, 93, .	3.3	7
58	Third-harmonic generation in relative-phase-controlled two-color laser field. Applied Physics B: Lasers and Optics, 2011, 104, 909-912.	2.2	7
59	Control of bandwidth and central wavelength of an enhanced extreme ultraviolet spectrum generated in shaped laser field. Optics Express, 2012, 20, 16544.	3.4	7
60	Fabrication of a microresonator-fiber assembly maintaining a high-quality factor by CO_2 laser welding. Optics Express, 2015, 23, 27941.	3.4	7
61	Onset of nonlinear self-focusing of femtosecond laser pulses in air: Conventional vs spatiotemporal focusing. Physical Review A, 2015, 92, .	2.5	7
62	Mid-infrared ultrafast laser pulses induced third harmonic generation in nitrogen molecules on an excited state. Scientific Reports, 2015, 5, 16006.	3.3	7
63	Retrieval of molecular alignment and identification of multiple-orbital contribution by using polarized high harmonics from aligned N₂ molecules. Optics Express, 2021, 29, 1613.	3.4	7
64	Polarization ellipticity dependence of ${m N}_{2}^{+}$ air lasing: the role of coupling between the ground state and a photo-excited intermediate state. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G57.	2.1	7
65	Generation of an intense single isolated attosecond pulse by use of two-colour waveform control. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145604.	1.5	6
66	A systematic investigation of high harmonic generation using mid-infrared driving laser pulses. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1054-1059.	5.1	6
67	Influence of ionization suppression on high-harmonic generation in molecules: Dependence of cutoff energy on driver wavelength. Physical Review A, 2013, 88, .	2.5	6
68	Free-space air molecular lasing from highly excited vibrational states pumped by circularly-polarized femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094001.	1.5	6
69	Generation of isolated attosecond pulses of sub-atomic-time durations with multi-cycle chirped polarization gating pulses. Optics Express, 2012, 20, 24642.	3.4	5
70	Direct observation of broadband conical emission along femtosecond-laser-induced rainbow filament in silver-nanoparticle-doped water. Journal of Modern Optics, 2012, 59, 1569-1573.	1.3	5
71	Enhanced narrow-bandwidth emission during high-order harmonic generation from aligned molecules. Optics Express, 2013, 21, 3259.	3.4	5
72	Quantum path selection in high-order harmonic generation from aligned molecules. Optics Express, 2014, 22, 7947.	3.4	5

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73	Generation of elliptically polarized nitrogen ion laser fields using two-color femtosecond laser pulses. Scientific Reports, 2016, 6, 21504.	3.3	5
74	Range extension in laser-induced breakdown spectroscopy using femtosecondâ€“nanosecond dual-beam laser system. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	5
75	Nonsequential double ionization of alkaline-earth metal atoms by intense mid-infrared femtosecond pulses. Optics Express, 2020, 28, 19325.	3.4	5
76	Mechanism and control of rotational coherence in femtosecond laser-driven N2+. Optics Express, 2020, 28, 22829.	3.4	5
77	Comparative study of strong-field ionization of alkaline-earth-metal atoms. Physical Review A, 2020, 101, .	2.5	5
78	Comparative investigations of the spontaneous and stimulated emissions from nitrogen molecules in air with femtosecond laser excitation pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 065602.	1.5	3
79	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
80	Electronic quantum coherence encoded in temporal structures of N2+ lasing. Physical Review A, 2021, 103, .	2.5	3
81	Observation of rotational coherence in an excited state of CO⁺. Optics Letters, 2021, 46, 3893.	3.3	3
82	Nonperturbative generation of above-threshold harmonics from pre-excited argon atoms in intense mid-infrared laser fields. High Power Laser Science and Engineering, 2017, 5, .	4.6	2
83	Nonlinear interaction of femtosecond laser pulses with a CO2-laser-induced air spark. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 155601.	1.5	2
84	Spectrum- and time-resolved investigation of pre-excited argon atoms. Physical Review A, 2019, 100, .	2.5	2
85	Enhanced harmonic emission from a polar molecule medium driven by few-cycle laser pulses. Optics Express, 2012, 20, 26521.	3.4	1
86	Three-dimensional manipulation of femtosecond filament direction with an air bubble in water. Journal of Optics (United Kingdom), 2012, 14, 075205.	2.2	1
87	Intensity-independent molecular rotational decoherence lifetimes measured with mean wavelength shifts of femtosecond pulses. Chinese Optics Letters, 2018, 16, 120201.	2.9	1
88	Nonintrusive temperature measurement of a combustion field by femtosecond laser-induced third harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	1
89	Atmospheric lasing induced by strong-field photoionization. , 2016, , .		0
90	Electronic quantum coherence in N 2 + air lasing. , 2019, , .		0