PengJi Ding

List of Publications by Year
in descending order

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38	752	687363 13	526287 27
papers	citations	h-index	g-index

38	38	38	366
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recollision-Induced Superradiance of Ionized Nitrogen Molecules. Physical Review Letters, 2015, 115, 133203.	7.8	131
2	Backward stimulated radiation from filaments in nitrogen gas and air pumped by circularly polarized 800 nm femtosecond laser pulses. Optics Express, 2014, 22, 12750.	3.4	112
3	Plasma Luminescence from Femtosecond Filaments in Air: Evidence for Impact Excitation with Circularly Polarized Light Pulses. Physical Review Letters, 2015, 114, 063003.	7.8	83
4	Backward Lasing of Air plasma pumped by Circularly polarized femtosecond pulses for the saKe of remote sensing (BLACK). Optics Express, 2014, 22, 29964.	3.4	59
5	Lasing of ambient air with microjoule pulse energy pumped by a multi-terawatt infrared femtosecond laser. Optics Letters, 2014, 39, 1725.	3.3	56
6	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. Physical Review Letters, 2017, 119, 203205.	7.8	47
7	Lasing dynamics of neutral nitrogen molecules in femtosecond filaments. Physical Review A, 2016, 94, .	2.5	28
8	Effect of laser pulse energy on orthogonal double femtosecond pulse laser-induced breakdown spectroscopy. Optics Express, 2013, 21, A704.	3.4	27
9	Control of third harmonic generation by plasma grating generated by two noncollinear IR femtosecond filaments. Optics Express, 2012, 20, 8837.	3.4	18
10	Femtosecond two-photon-excited backward lasing of atomic hydrogen in a flame. Optics Letters, 2018, 43, 1183.	3.3	18
11	Measurement of nonlinear refractive index coefficient using emission spectrum of filament induced by gigawatt-femtosecond pulse in BK7 glass. Applied Optics, 2012, 51, 2045.	1.8	17
12	Femtosecond two-photon laser-induced fluorescence imaging of atomic hydrogen in a laminar methaneâ€“air flame assisted by nanosecond repetitively pulsed discharges. Plasma Sources Science and Technology, 2020, 29, 065011.	3.1	17
13	Energy exchange between two noncollinear filament-forming laser pulses in air. Optics Express, 2013, 21, 27631.	3.4	13
14	Simultaneous temporally and spectrally resolved Raman coherences with single-shot fs/ns rotational CARS. Optics Letters, 2020, 45, 308.	3.3	13
15	Single-shot, spatially-resolved stand-off detection of atomic hydrogen via backward lasing in flames. Proceedings of the Combustion Institute, 2019, 37, 1281-1288.	3.9	11
16	Backward lasing of singly ionized nitrogen ions pumped by femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	10
17	Nonadiabaticity of cavity-free neutral nitrogen lasing. Physical Review A, 2017, 96, .	2.5	9
18	Single-shot fs/ns rotational CARS for temporally and spectrally resolved gas-phase diagnostics. Proceedings of the Combustion Institute, 2021, 38, 1843-1850.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Laser-induced thermal grating spectroscopy based on femtosecond laser multi-photon absorption. Scientific Reports, 2021, 11, 9829.	3.3	8
20	Two-photon-excited fluorescence of CO: experiments and modeling. Optics Express, 2019, 27, 25656.	3.4	8
21	Gain mechanism of femtosecond two-photon-excited lasing effect in atomic hydrogen. Optics Letters, 2019, 44, 2374.	3.3	8
22	Detection of atomic oxygen in a plasma-assisted flame via a backward lasing technique. Optics Letters, 2019, 44, 5477.	3.3	8
23	Enhancement of third-order harmonic generation by interaction of two IR femtosecond filaments. Laser Physics Letters, 2012, 9, 649-653.	1.4	7
24	Temporal dynamics of femtosecond-TALIF of atomic hydrogen and oxygen in a nanosecond repetitively pulsed discharge-assisted methaneâ€“air flame. Journal Physics D: Applied Physics, 2021, 54, 275201.	2.8	7
25	Gas-phase pressure measurement using femtosecond laser-induced grating scattering technique. Optics Letters, 2022, 47, 1859.	3.3	6
26	Femtosecond laser-induced quantum-beat superfluorescence of atomic oxygen in a flame. Physical Review A, 2021, 104, .	2.5	5
27	Effect of target composition on proton acceleration in ultraintense laser-thin foil interaction. Physics of Plasmas, 2012, 19, 093108.	1.9	3
28	Reconstruction of the vibronic-state density matrix based on pump-probe state-resolved energy spectra. Physical Review A, 2022, 105, .	2.5	3
29	Energy exchange process among multiple filamentary femtosecond laser beams in air. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	2
30	Populations of B2Î£u+ and X2Î£g+ electronic states of molecular nitrogen ions in air determined by fluorescence measurement. Physical Review A, 2021, 103, .	2.5	2
31	Optical gain in the P branch of N2+ lasing by polarization-modulated laser pulses. Physical Review A, 2021, 103, .	2.5	2
32	Lasing from plasma filaments in Air. , 2015, , .		2
33	Signature of femtosecond laser-induced superfluorescence from atomic hydrogen. Physical Review A, 2022, 105, .	2.5	2
34	Laser without population inversion of nitrogen ions pumped by femtosecond pulses. , 2019, , .		1
35	Characterization of femtosecond laser-induced grating scattering of a continuous-wave laser light in air. Optics Express, 2022, 30, 17038.	3.4	1
36	The Role of Electron Collisions in Lasing in Neutral and Singly Ionized Molecular Nitrogen. Springer Series in Optical Sciences, 2018, , 45-74.	0.7	0

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37	Backward Lasing of Femtosecond Plasma Filaments. Springer Series in Chemical Physics, 2015, , 89-103.	0.2	0
38	Superradiance of Air Plasma Induced by Electron Recollision. , 2016, , .		0