

PengJi Ding

List of Publications by Year in descending order

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38
papers

752
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687363

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526287

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all docs

38
docs citations

38
times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	Signature of femtosecond laser-induced superfluorescence from atomic hydrogen. <i>Physical Review A</i> , 2022, 105, .	2.5	2
2	Gas-phase pressure measurement using femtosecond laser-induced grating scattering technique. <i>Optics Letters</i> , 2022, 47, 1859.	3.3	6
3	Reconstruction of the vibronic-state density matrix based on pump-probe state-resolved energy spectra. <i>Physical Review A</i> , 2022, 105, .	2.5	3
4	Characterization of femtosecond laser-induced grating scattering of a continuous-wave laser light in air. <i>Optics Express</i> , 2022, 30, 17038.	3.4	1
5	Single-shot fs/ns rotational CARS for temporally and spectrally resolved gas-phase diagnostics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1843-1850.	3.9	8
6	Populations of B ² Σ ⁺ and X ² Σ ⁺ electronic states of molecular nitrogen ions in air determined by fluorescence measurement. <i>Physical Review A</i> , 2021, 103, .	2.5	2
7	Temporal dynamics of femtosecond-TALIF of atomic hydrogen and oxygen in a nanosecond repetitively pulsed discharge-assisted methane-air flame. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 275201.	2.8	7
8	Laser-induced thermal grating spectroscopy based on femtosecond laser multi-photon absorption. <i>Scientific Reports</i> , 2021, 11, 9829.	3.3	8
9	Optical gain in the P branch of N ₂ ⁺ lasing by polarization-modulated laser pulses. <i>Physical Review A</i> , 2021, 103, .	2.5	2
10	Femtosecond laser-induced quantum-beat superfluorescence of atomic oxygen in a flame. <i>Physical Review A</i> , 2021, 104, .	2.5	5
11	Femtosecond two-photon laser-induced fluorescence imaging of atomic hydrogen in a laminar methane-air flame assisted by nanosecond repetitively pulsed discharges. <i>Plasma Sources Science and Technology</i> , 2020, 29, 065011.	3.1	17
12	Backward lasing of singly ionized nitrogen ions pumped by femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	10
13	Simultaneous temporally and spectrally resolved Raman coherences with single-shot fs/ns rotational CARS. <i>Optics Letters</i> , 2020, 45, 308.	3.3	13
14	Single-shot, spatially-resolved stand-off detection of atomic hydrogen via backward lasing in flames. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1281-1288.	3.9	11
15	Two-photon-excited fluorescence of CO: experiments and modeling. <i>Optics Express</i> , 2019, 27, 25656.	3.4	8
16	Gain mechanism of femtosecond two-photon-excited lasing effect in atomic hydrogen. <i>Optics Letters</i> , 2019, 44, 2374.	3.3	8
17	Detection of atomic oxygen in a plasma-assisted flame via a backward lasing technique. <i>Optics Letters</i> , 2019, 44, 5477.	3.3	8
18	Laser without population inversion of nitrogen ions pumped by femtosecond pulses. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	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
20	Femtosecond two-photon-excited backward lasing of atomic hydrogen in a flame. Optics Letters, 2018, 43, 1183.	3.3	18
21	Nonadiabaticity of cavity-free neutral nitrogen lasing. Physical Review A, 2017, 96, .	2.5	9
22	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. Physical Review Letters, 2017, 119, 203205.	7.8	47
23	Lasing dynamics of neutral nitrogen molecules in femtosecond filaments. Physical Review A, 2016, 94, .	2.5	28
24	Energy exchange process among multiple filamentary femtosecond laser beams in air. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	2
25	Superradiance of Air Plasma Induced by Electron Recollision. , 2016, , .		0
26	Recollision-Induced Superradiance of Ionized Nitrogen Molecules. Physical Review Letters, 2015, 115, 133203.	7.8	131
27	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
28	Lasing from plasma filaments in Air. , 2015, , .		2
29	Backward Lasing of Femtosecond Plasma Filaments. Springer Series in Chemical Physics, 2015, , 89-103.	0.2	0
30	Lasing of ambient air with microjoule pulse energy pumped by a multi-terawatt infrared femtosecond laser. Optics Letters, 2014, 39, 1725.	3.3	56
31	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
32	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
33	Effect of laser pulse energy on orthogonal double femtosecond pulse laser-induced breakdown spectroscopy. Optics Express, 2013, 21, A704.	3.4	27
34	Energy exchange between two noncollinear filament-forming laser pulses in air. Optics Express, 2013, 21, 27631.	3.4	13
35	Effect of target composition on proton acceleration in ultraintense laser-thin foil interaction. Physics of Plasmas, 2012, 19, 093108.	1.9	3
36	Control of third harmonic generation by plasma grating generated by two noncollinear IR femtosecond filaments. Optics Express, 2012, 20, 8837.	3.4	18

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37	Enhancement of third-order harmonic generation by interaction of two IR femtosecond filaments. <i>Laser Physics Letters</i> , 2012, 9, 649-653.	1.4	7
38	Measurement of nonlinear refractive index coefficient using emission spectrum of filament induced by gigawatt-femtosecond pulse in BK7 glass. <i>Applied Optics</i> , 2012, 51, 2045.	1.8	17