

# Yi Liu

## List of Publications by Year in descending order

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29  
papers

892  
citations

623734

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501196

28  
g-index

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docs citations

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times ranked

322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable broadband THz emission from air plasma pumped by femtosecond pulses composed of a fundamental frequency with its detuned second harmonic. <i>Optics Communications</i> , 2022, 505, 127532.	2.1	7
2	Micropattern-assisted absorption enhancement and wettability surface on ZnO via single femtosecond laser beam tailoring. <i>Optics and Laser Technology</i> , 2022, 150, 107979.	4.6	3
3	Coherently controlled ionization of gases by three-color femtosecond laser pulses. <i>Physical Review A</i> , 2022, 105, .	2.5	3
4	Modulated terahertz generation in femtosecond laser plasma filaments by high-field spintronic terahertz pulses. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	7
5	Optical amplification and gain dynamics of cavity-free lasing of argon pumped by ultraviolet femtosecond pulses. <i>Optics Express</i> , 2022, 30, 17156.	3.4	0
6	Theory of femtosecond strong field ion excitation and subsequent lasing in $N_2^+$ . <i>New Journal of Physics</i> , 2021, 23, 023035.	2.9	10
7	Coherent control of the multiple wavelength lasing of $N_2^+$ : coherence transfer and beyond. <i>Optica</i> , 2021, 8, 668.	9.3	17
8	Femtosecond laser-induced quantum-beat superfluorescence of atomic oxygen in a flame. <i>Physical Review A</i> , 2021, 104, .	2.5	5
9	Two-dimensional suprawavelength periodic surface structuring of a ZnO single crystal with a UV femtosecond laser. <i>Optics Express</i> , 2021, 29, 30772.	3.4	5
10	Phase-Type Fresnel Zone Plate with Multi-Wavelength Imaging Embedded in Fluoroaluminate Glass Fabricated via Ultraviolet Femtosecond Laser Lithography. <i>Micromachines</i> , 2021, 12, 1362.	2.9	5
11	Modeling of the processes of ionization and excitation of nitrogen molecules by short and intense laser pulses. <i>Physical Review A</i> , 2021, 104, .	2.5	7
12	Formation Mechanism of Excited Neutral Nitrogen Molecules Pumped by Intense Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7702-7708.	4.6	7
13	Understanding the Seeding Pulse-Induced Optical Amplification in $N_2^+$ Pumped by 800 NM Femtosecond Laser Pulses. <i>Photonics</i> , 2020, 7, 99.	2.0	2
14	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
15	Coherent control of boosted terahertz radiation from air plasma pumped by a femtosecond three-color sawtooth field. <i>Physical Review A</i> , 2020, 102, .	2.5	23
16	Recent Advances in Air Lasing: A Perspective from Quantum Coherence. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900080.	3.9	26
17	Formation Dynamics of Excited Neutral Nitrogen Molecules inside Femtosecond Laser Filaments. <i>Physical Review Letters</i> , 2019, 123, 243203.	7.8	16
18	Coherent modulation of superradiance from nitrogen ions pumped with femtosecond pulses. <i>Optics Express</i> , 2019, 27, 12638.	3.4	33

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19	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. <i>Physical Review Letters</i> , 2017, 119, 203205.	7.8	47
20	Excitation of nitrogen molecular ions in a strong laser field by electron recollisions. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	7
21	Lasing dynamics of neutral nitrogen molecules in femtosecond filaments. <i>Physical Review A</i> , 2016, 94, .	2.5	28
22	Recollision-Induced Superradiance of Ionized Nitrogen Molecules. <i>Physical Review Letters</i> , 2015, 115, 133203.	7.8	131
23	Plasma Luminescence from Femtosecond Filaments in Air: Evidence for Impact Excitation with Circularly Polarized Light Pulses. <i>Physical Review Letters</i> , 2015, 114, 063003.	7.8	83
24	Re-evaluation of the peak intensity inside a femtosecond laser filament in air. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 094003.	1.5	37
25	Lasing of ambient air with microjoule pulse energy pumped by a multi-terawatt infrared femtosecond laser. <i>Optics Letters</i> , 2014, 39, 1725.	3.3	56
26	Backward Lasing of Air plasma pumped by Circularly polarized femtosecond pulses for the sake of remote sensing (BLACK). <i>Optics Express</i> , 2014, 22, 29964.	3.4	59
27	Backward stimulated radiation from filaments in nitrogen gas and air pumped by circularly polarized 800 nm femtosecond laser pulses. <i>Optics Express</i> , 2014, 22, 12750.	3.4	112
28	Self-seeded lasing in ionized air pumped by 800 nm femtosecond laser pulses. <i>Optics Express</i> , 2013, 21, 22791.	3.4	115
29	Laser-induced periodic annular surface structures on fused silica surface. <i>Applied Physics Letters</i> , 2013, 102, 251103.	3.3	31