

# Wei Chu

## List of Publications by Year in descending order

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77  
papers

2,358  
citations

201674

27  
h-index

223800

46  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1326  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-brightness switchable multiwavelength remote laser in air. <i>Physical Review A</i> , 2011, 84, .	2.5	233
2	Broadband Quasi-Phase-Matched Harmonic Generation in an On-Chip Monocrystalline Lithium Niobate Microdisk Resonator. <i>Physical Review Letters</i> , 2019, 122, 173903.	7.8	141
3	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
4	Long Low-Loss-Litium Niobate on Insulator Waveguides with Sub-Nanometer Surface Roughness. <i>Nanomaterials</i> , 2018, 8, 910.	4.1	113
5	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
6	On-chip tunable microdisk laser fabricated on Er <sup>3+</sup> -doped lithium niobate on insulator. <i>Optics Letters</i> , 2021, 46, 380.	3.3	82
7	On-Chip Integrated Waveguide Amplifiers on Erbium-Doped Thin-Film Lithium Niobate on Insulator. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100030.	8.7	79
8	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
9	Centimeter-Height 3D Printing with Femtosecond Laser Two-Photon Polymerization. <i>Advanced Materials Technologies</i> , 2018, 3, 1700396.	5.8	64
10	Signature of superradiance from a nitrogen-gas plasma channel produced by strong-field ionization. <i>Physical Review A</i> , 2014, 89, .	2.5	63
11	Identification of the physical mechanism of generation of coherent N <sub>2</sub> <sup>+</sup> emissions in air by femtosecond laser excitation. <i>Optics Express</i> , 2013, 21, 8746.	3.4	61
12	Electro-Optically Switchable Optical True Delay Lines of Meter-Scale Lengths Fabricated on Lithium Niobate on Insulator Using Photolithography Assisted Chemo-Mechanical Etching. <i>Chinese Physics Letters</i> , 2020, 37, 084201.	3.3	60
13	Terahertz imaging with sub-wavelength resolution by femtosecond laser filament in air. <i>Scientific Reports</i> , 2014, 4, 3880.	3.3	58
14	Tailoring femtosecond 1.5- $\mu$ m Bessel beams for manufacturing high-aspect-ratio through-silicon vias. <i>Scientific Reports</i> , 2017, 7, 40785.	3.3	58
15	Ionization Suppression of Diatomic Molecules in an Intense Midinfrared Laser Field. <i>Physical Review Letters</i> , 2012, 108, 223001.	7.8	51
16	On-chip electro-optic tuning of a lithium niobate microresonator with integrated in-plane microelectrodes. <i>Optics Express</i> , 2017, 25, 124.	3.4	44
17	Polarization-insensitive space-selective etching in fused silica induced by picosecond laser irradiation. <i>Applied Surface Science</i> , 2019, 485, 188-193.	6.1	43
18	Electro-optically tunable microring laser monolithically integrated on lithium niobate on insulator. <i>Optics Letters</i> , 2021, 46, 2127.	3.3	39

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19	Enhancement of peak intensity in a filament core with spatiotemporally focused femtosecond laser pulses. <i>Physical Review A</i> , 2011, 84, .	2.5	38
20	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
21	Coupling of $N_2$ rotational states in an air laser from tunnel-ionized nitrogen molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	36
22	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
23	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
24	Strong Spatial Confinement of Terahertz Wave inside Femtosecond Laser Filament. <i>ACS Photonics</i> , 2016, 3, 2338-2343.	6.6	31
25	Fabrication of a multifunctional photonic integrated chip on lithium niobate on insulator using femtosecond laser-assisted chemomechanical polish. <i>Optics Letters</i> , 2019, 44, 4698.	3.3	31
26	An anatomy of strong-field ionization-induced air lasing. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	30
27	Freeform Microfluidic Networks Encapsulated in Laser-Printed 3D Macroscale Glass Objects. <i>Advanced Materials Technologies</i> , 2020, 5, 1900989.	5.8	29
28	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. <i>Physical Review A</i> , 2019, 100, .	2.5	28
29	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
30	Second harmonic generation in centrosymmetric gas with spatiotemporally focused intense femtosecond laser pulses. <i>Optics Letters</i> , 2014, 39, 961.	3.3	24
31	Phase-matched high-order harmonic generation in a gas cell with midinfrared femtosecond pulses. <i>Physical Review A</i> , 2009, 79, .	2.5	23
32	Efficient electro-optical tuning of an optical frequency microcomb on a monolithically integrated high-Q lithium niobate microdisk. <i>Optics Letters</i> , 2019, 44, 5953.	3.3	23
33	Three-Dimensional Laser Printing of Macro-Scale Glass Objects at a Micro-Scale Resolution. <i>Micromachines</i> , 2019, 10, 565.	2.9	22
34	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
35	Simultaneous identification of multi-combustion-intermediates of alkanol-air flames by femtosecond filament excitation for combustion sensing. <i>Scientific Reports</i> , 2016, 6, 27340.	3.3	19
36	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

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37	Water-assisted laser drilling of high-aspect-ratio 3D microchannels in glass with spatiotemporally focused femtosecond laser pulses. <i>Optical Materials Express</i> , 2019, 9, 1971.	3.0	19
38	Single attosecond pulse generation from aligned molecules using two-color polarization gating. <i>Physical Review A</i> , 2009, 80, .	2.5	16
39	Extremely nonlinear Raman interaction of an ultrashort nitrogen ion laser with an impulsively excited molecular wave packet. <i>Physical Review A</i> , 2020, 101, .	2.5	16
40	Size-controlled flow synthesis of metal-organic frameworks crystals monitored by in-situ ultraviolet–visible absorption spectroscopy. <i>Chinese Chemical Letters</i> , 2021, 32, 1131-1134.	9.0	16
41	High-Precision Propagation-Loss Measurement of Single-Mode Optical Waveguides on Lithium Niobate on Insulator. <i>Micromachines</i> , 2019, 10, 612.	2.9	15
42	A Microfluidic Mixer of High Throughput Fabricated in Glass Using Femtosecond Laser Micromachining Combined with Glass Bonding. <i>Micromachines</i> , 2020, 11, 213.	2.9	15
43	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
44	High-throughput in-volume processing in glass with isotropic spatial resolutions in three dimensions. <i>Optical Materials Express</i> , 2016, 6, 3787.	3.0	14
45	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
46	Wavelength-dependent nonsequential double ionization of magnesium by intense femtosecond laser pulses. <i>Physical Review A</i> , 2019, 100, .	2.5	12
47	A three-dimensional microfluidic mixer of a homogeneous mixing efficiency fabricated by ultrafast laser internal processing of glass. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	12
48	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
49	Generation of narrow-bandwidth, tunable, coherent xuv radiation using high-order harmonic generation. <i>Physical Review A</i> , 2011, 83, .	2.5	11
50	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
51	Wavelength-dependent ionization suppression of diatomic molecules in intense circularly polarized laser fields. <i>Physical Review A</i> , 2014, 90, .	2.5	11
52	Transverse writing of three-dimensional tubular optical waveguides in glass with a slit-shaped femtosecond laser beam. <i>Scientific Reports</i> , 2016, 6, 28790.	3.3	11
53	Fabrication of polarization-independent waveguides deeply buried in lithium niobate crystal using aberration-corrected femtosecond laser direct writing. <i>Scientific Reports</i> , 2017, 7, 41211.	3.3	11
54	Suppression of bend loss in writing of three-dimensional optical waveguides with femtosecond laser pulses. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	11

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55	High-throughput multi-resolution three dimensional laser printing. <i>Physica Scripta</i> , 2019, 94, 015501.	2.5	11
56	Automated and remote synthesis of poly(ethylene glycol)-mineralized ZIF-8 composite particles via a synthesizer assisted by femtosecond laser micromachining. <i>Chinese Chemical Letters</i> , 2022, 33, 497-500.	9.0	11
57	Free-space $\hat{1}2+$ lasers generated in strong laser fields: the role of molecular vibration. <i>Optics Express</i> , 2018, 26, 13331.	3.4	10
58	Vibrational Raman scattering from coherently excited molecular ions in a strong laser field. <i>Optics Express</i> , 2019, 27, 18262.	3.4	10
59	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
60	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
61	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
62	Metal surface structuring with spatiotemporally focused femtosecond laser pulses. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014010.	2.2	7
63	Polarization ellipticity dependence of $\{m N\}_{2}^{+}$ 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
64	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
65	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
66	Generation of elliptically polarized nitrogen ion laser fields using two-color femtosecond laser pulses. <i>Scientific Reports</i> , 2016, 6, 21504.	3.3	5
67	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
68	Nonsequential double ionization of alkaline-earth metal atoms by intense mid-infrared femtosecond pulses. <i>Optics Express</i> , 2020, 28, 19325.	3.4	5
69	Comparative study of strong-field ionization of alkaline-earth-metal atoms. <i>Physical Review A</i> , 2020, 101, .	2.5	5
70	High-quality-factor optical microresonators fabricated on lithium niobate thin film with an electro-optical tuning range spanning over one free spectral range [Invited]. <i>Chinese Optics Letters</i> , 2021, 19, 060002.	2.9	4
71	Dramatic Spectral Broadening of Ultrafast Laser Pulses in Molecular Nitrogen Ions*. <i>Chinese Physics Letters</i> , 2019, 36, 104204.	3.3	3
72	Electronic quantum coherence encoded in temporal structures of $N2+$ lasing. <i>Physical Review A</i> , 2021, 103, .	2.5	3

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73	Automated synthesis of gadopentetate dimeglumine through solid-liquid reaction in femtosecond laser fabricated microfluidic chips. Chinese Chemical Letters, 2022, 33, 1077-1080.	9.0	3
74	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
75	Nonlinear interaction of femtosecond laser pulses with a CO <sub>2</sub> -laser-induced air spark. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 155601.	1.5	2
76	Spectrum- and time-resolved investigation of pre-excited argon atoms. Physical Review A, 2019, 100, .	2.5	2
77	An Ultra-High-Q Lithium Niobate Microresonator Integrated with a Silicon Nitride Waveguide in the Vertical Configuration for Evanescent Light Coupling. Micromachines, 2021, 12, 235.	2.9	0