

# Wei Chu

## List of Publications by Year in descending order

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77  
papers

2,358  
citations

201674

27  
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223800

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79  
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79  
docs citations

79  
times ranked

1326  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Automated and remote synthesis of poly(ethylene glycol)-mineralized ZIF-8 composite particles via a synthesizer assisted by femtosecond laser micromachining. Chinese Chemical Letters, 2022, 33, 497-500.	9.0	11
3	Size-controlled flow synthesis of metal-organic frameworks crystals monitored by in-situ ultraviolet-visible absorption spectroscopy. Chinese Chemical Letters, 2021, 32, 1131-1134.	9.0	16
4	High-quality-factor optical microresonators fabricated on lithium niobate thin film with an electro-optical tuning range spanning over one free spectral range [Invited]. Chinese Optics Letters, 2021, 19, 060002.	2.9	4
5	On-chip tunable microdisk laser fabricated on Er <sup>3+</sup> -doped lithium niobate on insulator. Optics Letters, 2021, 46, 380.	3.3	82
6	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
7	Electronic quantum coherence encoded in temporal structures of N <sub>2</sub> <sup>+</sup> lasing. Physical Review A, 2021, 103, .	2.5	3
8	Electro-optically tunable microring laser monolithically integrated on lithium niobate on insulator. Optics Letters, 2021, 46, 2127.	3.3	39
9	On-Chip Integrated Waveguide Amplifiers on Erbium-Doped Thin-Film Lithium Niobate on Insulator. Laser and Photonics Reviews, 2021, 15, 2100030.	8.7	79
10	Electro-Optically Switchable Optical True Delay Lines of Meter-Scale Lengths Fabricated on Lithium Niobate on Insulator Using Photolithography Assisted Chemo-Mechanical Etching. Chinese Physics Letters, 2020, 37, 084201.	3.3	60
11	A Microfluidic Mixer of High Throughput Fabricated in Glass Using Femtosecond Laser Micromachining Combined with Glass Bonding. Micromachines, 2020, 11, 213.	2.9	15
12	Freeform Microfluidic Networks Encapsulated in Laser-Printed 3D Macroscale Glass Objects. Advanced Materials Technologies, 2020, 5, 1900989.	5.8	29
13	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
14	A three-dimensional microfluidic mixer of a homogeneous mixing efficiency fabricated by ultrafast laser internal processing of glass. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	12
15	Nonsequential double ionization of alkaline-earth metal atoms by intense mid-infrared femtosecond pulses. Optics Express, 2020, 28, 19325.	3.4	5
16	Comparative study of strong-field ionization of alkaline-earth-metal atoms. Physical Review A, 2020, 101, .	2.5	5
17	Three-Dimensional Laser Printing of Macro-Scale Glass Objects at a Micro-Scale Resolution. Micromachines, 2019, 10, 565.	2.9	22
18	High-Precision Propagation-Loss Measurement of Single-Mode Optical Waveguides on Lithium Niobate on Insulator. Micromachines, 2019, 10, 612.	2.9	15

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19	Wavelength-dependent nonsequential double ionization of magnesium by intense femtosecond laser pulses. <i>Physical Review A</i> , 2019, 100, .	2.5	12
20	Electronic-coherence-mediated molecular nitrogen-ion lasing in a strong laser field. <i>Physical Review A</i> , 2019, 100, .	2.5	28
21	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
22	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
23	Spectrum- and time-resolved investigation of pre-excited argon atoms. <i>Physical Review A</i> , 2019, 100, .	2.5	2
24	Dramatic Spectral Broadening of Ultrafast Laser Pulses in Molecular Nitrogen Ions*. <i>Chinese Physics Letters</i> , 2019, 36, 104204.	3.3	3
25	High-throughput multi-resolution three dimensional laser printing. <i>Physica Scripta</i> , 2019, 94, 015501.	2.5	11
26	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
27	Vibrational Raman scattering from coherently excited molecular ions in a strong laser field. <i>Optics Express</i> , 2019, 27, 18262.	3.4	10
28	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
29	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
30	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
31	Centimeter-Height 3D Printing with Femtosecond Laser Two-Photon Polymerization. <i>Advanced Materials Technologies</i> , 2018, 3, 1700396.	5.8	64
32	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
33	An anatomy of strong-field ionization-induced air lasing. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	30
34	Metal surface structuring with spatiotemporally focused femtosecond laser pulses. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014010.	2.2	7
35	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
36	Long Low-Loss-Litium Niobate on Insulator Waveguides with Sub-Nanometer Surface Roughness. <i>Nanomaterials</i> , 2018, 8, 910.	4.1	113

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37	Free-space $\hat{1}2+$ lasers generated in strong laser fields: the role of molecular vibration. Optics Express, 2018, 26, 13331.	3.4	10
38	Generation of Raman lasers from nitrogen molecular ions driven by ultraintense laser fields. New Journal of Physics, 2018, 20, 033035.	2.9	19
39	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
40	Tailoring femtosecond 1.5- $\hat{1}$ / <sub>4</sub> m Bessel beams for manufacturing high-aspect-ratio through-silicon vias. Scientific Reports, 2017, 7, 40785.	3.3	58
41	Fabrication of polarization-independent waveguides deeply buried in lithium niobate crystal using aberration-corrected femtosecond laser direct writing. Scientific Reports, 2017, 7, 41211.	3.3	11
42	Range extension in laser-induced breakdown spectroscopy using femtosecond- $\hat{e}$ nanosecond dual-beam laser system. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	5
43	On-chip electro-optic tuning of a lithium niobate microresonator with integrated in-plane microelectrodes. Optics Express, 2017, 25, 124.	3.4	44
44	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
45	High-throughput in-volume processing in glass with isotropic spatial resolutions in three dimensions. Optical Materials Express, 2016, 6, 3787.	3.0	14
46	Population Redistribution Among Multiple Electronic States of Molecular Nitrogen Ions in Strong Laser Fields. Physical Review Letters, 2016, 116, 143007.	7.8	132
47	Transverse writing of three-dimensional tubular optical waveguides in glass with a slit-shaped femtosecond laser beam. Scientific Reports, 2016, 6, 28790.	3.3	11
48	Strong Spatial Confinement of Terahertz Wave inside Femtosecond Laser Filament. ACS Photonics, 2016, 3, 2338-2343.	6.6	31
49	Simultaneous identification of multi-combustion-intermediates of alkanol-air flames by femtosecond filament excitation for combustion sensing. Scientific Reports, 2016, 6, 27340.	3.3	19
50	Generation of elliptically polarized nitrogen ion laser fields using two-color femtosecond laser pulses. Scientific Reports, 2016, 6, 21504.	3.3	5
51	Onset of nonlinear self-focusing of femtosecond laser pulses in air: Conventional vs spatiotemporal focusing. Physical Review A, 2015, 92, .	2.5	7
52	Mid-infrared ultrafast laser pulses induced third harmonic generation in nitrogen molecules on an excited state. Scientific Reports, 2015, 5, 16006.	3.3	7
53	Backward nitrogen lasing actions induced by femtosecond laser filamentation: influence of duration of gain. New Journal of Physics, 2015, 17, 073009.	2.9	9
54	Wavelength-dependent ionization suppression of diatomic molecules in intense circularly polarized laser fields. Physical Review A, 2014, 90, .	2.5	11

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55	Impulsive rotational Raman scattering of $N_2$ by a remote air laser in femtosecond laser filament. Optics Letters, 2014, 39, 2250.	3.3	32
56	Coupling of $N_2$ rotational states in an air laser from tunnel-ionized nitrogen molecules. Physical Review A, 2014, 90, .	2.5	36
57	Real-time observation of dynamics in rotational molecular wave packets by use of air-laser spectroscopy. Physical Review A, 2014, 89, .	2.5	37
58	Signature of superradiance from a nitrogen-gas plasma channel produced by strong-field ionization. Physical Review A, 2014, 89, .	2.5	63
59	Second harmonic generation in centrosymmetric gas with spatiotemporally focused intense femtosecond laser pulses. Optics Letters, 2014, 39, 961.	3.3	24
60	Terahertz imaging with sub-wavelength resolution by femtosecond laser filament in air. Scientific Reports, 2014, 4, 3880.	3.3	58
61	Rotational Coherence Encoded in an Air-Laser Spectrum of Nitrogen Molecular Ions in an Intense Laser Field. Physical Review X, 2013, 3, .	8.9	75
62	Remote creation of coherent emissions in air with two-color ultrafast laser pulses. New Journal of Physics, 2013, 15, 023046.	2.9	91
63	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
64	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
65	Abnormal dependence of strong-field-ionization-induced nitrogen lasing on polarization ellipticity of the driving field. Physical Review A, 2013, 88, .	2.5	14
66	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
67	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
68	Enhancement of third harmonic generation in femtosecond laser induced filamentation – comparison of results obtained with plasma and a pair of glass plates. Journal of Modern Optics, 2012, 59, 245-249.	1.3	20
69	Ionization Suppression of Diatomic Molecules in an Intense Midinfrared Laser Field. Physical Review Letters, 2012, 108, 223001.	7.8	51
70	High-brightness switchable multiwavelength remote laser in air. Physical Review A, 2011, 84, .	2.5	233
71	Enhancement of peak intensity in a filament core with spatiotemporally focused femtosecond laser pulses. Physical Review A, 2011, 84, .	2.5	38
72	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

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73	Generation of narrow-bandwidth, tunable, coherent xuv radiation using high-order harmonic generation. <i>Physical Review A</i> , 2011, 83, .	2.5	11
74	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
75	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
76	Phase-matched high-order harmonic generation in a gas cell with midinfrared femtosecond pulses. <i>Physical Review A</i> , 2009, 79, .	2.5	23
77	Single attosecond pulse generation from aligned molecules using two-color polarization gating. <i>Physical Review A</i> , 2009, 80, .	2.5	16