

# Chunmei Zhang

## List of Publications by Year in descending order

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53  
papers

1,151  
citations

516710

16  
h-index

395702

33  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petahertz optical oscilloscope. <i>Nature Photonics</i> , 2013, 7, 958-962.	31.4	163
2	Photonic streaking of attosecond pulse trains. <i>Nature Photonics</i> , 2013, 7, 651-656.	31.4	126
3	Controlling the orbital angular momentum of high harmonic vortices. <i>Nature Communications</i> , 2017, 8, 14970.	12.8	124
4	Manipulation of quantum paths for space-time characterization of attosecond pulses. <i>Nature Physics</i> , 2013, 9, 159-163.	16.7	94
5	Parasitic lasing suppression in high gain femtosecond petawatt Ti:sapphire amplifier. <i>Optics Express</i> , 2007, 15, 15335.	3.4	93
6	Vectorized optoelectronic control and metrology in a semiconductor. <i>Nature Photonics</i> , 2020, 14, 680-685.	31.4	67
7	Testing the Role of Recollision in $N_2$ Air Lasing. <i>Physical Review Letters</i> , 2018, 120, 133208.	7.8	58
8	Applications of ultrafast wavefront rotation in highly nonlinear optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124004.	1.5	53
9	Ultrashort pulse temporal contrast enhancement based on noncollinear optical-parametric amplification. <i>Optics Letters</i> , 2011, 36, 781.	3.3	43
10	Generating few-cycle radially polarized pulses. <i>Optica</i> , 2019, 6, 160.	9.3	35
11	Tunable phase-stabilized infrared optical parametric amplifier for high-order harmonic generation. <i>Optics Letters</i> , 2009, 34, 2730.	3.3	34
12	Reconfigurable electronic circuits for magnetic fields controlled by structured light. <i>Nature Photonics</i> , 2021, 15, 622-626.	31.4	29
13	Integrating solids and gases for attosecond pulse generation. <i>Nature Photonics</i> , 2017, 11, 594-599.	31.4	24
14	Layered fractures induced by principal stress axes rotation in hard rock during tunnelling. <i>Materials Research Innovations</i> , 2011, 15, s527-s530.	2.3	23
15	Attosecond lighthouse driven by sub-two-cycle, 1.8-fs laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 061001.	1.5	22
16	Octave-spanning hyperspectral coherent diffractive imaging in the extreme ultraviolet range. <i>Optics Express</i> , 2015, 23, 28960.	3.4	16
17	Vectorizing the spatial structure of high-harmonic radiation from gas. <i>Nature Communications</i> , 2019, 10, 2020.	12.8	16
18	Short- and long-term gain dynamics in $N_2$ air lasing. <i>Physical Review A</i> , 2019, 100, .	2.5	12

#	ARTICLE	IF	CITATIONS
19	Controlling attosecond angular streaking with second harmonic radiation. <i>Optics Letters</i> , 2015, 40, 1768.	3.3	11
20	Spin-constrained orbital-angular-momentum control in high-harmonic generation. <i>Physical Review Research</i> , 2019, 1, .	3.6	10
21	Dynamic wavefront rotation in the attosecond lighthouse. <i>Optica</i> , 2017, 4, 48.	9.3	9
22	Attosecond measurement via high-order harmonic generation in low-frequency fields. <i>Physical Review A</i> , 2022, 105, .	2.5	8
23	Femtosecond time-domain observation of atmospheric absorption in the near-infrared spectrum. <i>Physical Review A</i> , 2016, 94, .	2.5	7
24	Control of $N^2$ air lasing. <i>Physical Review A</i> , 2020, 102, .	2.5	7
25	High-harmonic generation in solids driven by counter-propagating pulses. <i>Optics Express</i> , 2019, 27, 32630.	3.4	7
26	Active stabilization of terahertz waveforms radiated from a two-color air plasma. <i>Photonics Research</i> , 2022, 10, 96.	7.0	7
27	Full characterization of an attosecond pulse generated using an infrared driver. <i>Scientific Reports</i> , 2016, 6, 26771.	3.3	5
28	Delay measurement of attosecond emission in solids. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 124001.	1.5	5
29	Multiphoton laser-induced confined chemical changes in polymer films. <i>Optics Express</i> , 2020, 28, 11267.	3.4	5
30	Near-field imaging of dipole emission modulated by an optical grating. <i>Optica</i> , 2021, 8, 1632.	9.3	5
31	Tunable ultraviolet source from fifth and seventh harmonic generated by mid-infrared pulses filamentation in air. <i>Laser Physics</i> , 2009, 19, 1793-1795.	1.2	4
32	Wavelength effect on atomic and molecular high harmonic generation driven by a tunable infrared parametric source. <i>Optics Express</i> , 2009, 17, 15061.	3.4	4
33	Molecular high harmonic generation in a two-color field. <i>Optics Express</i> , 2010, 18, 11664.	3.4	4
34	Interferometric time delay correction for Fourier transform spectroscopy in the extreme ultraviolet. <i>Journal of Modern Optics</i> , 2016, 63, 1661-1667.	1.3	4
35	Deposition of Fine Tailing Particles and Profile Zoning Of Tailings Dams. <i>Soil Mechanics and Foundation Engineering</i> , 2019, 56, 359-365.	0.7	4
36	Femtosecond-Laser-Induced Nanoscale Blisters in Polyimide Thin Films through Nonlinear Absorption. <i>Physical Review Applied</i> , 2020, 14, .	3.8	3

#	ARTICLE	IF	CITATIONS
37	Accurate measurement of carrier-envelope phase drift for infrared femtosecond laser pulses. Optics Express, 2008, 16, 21383.	3.4	2
38	High harmonics diffraction caused by an ellipticity grating. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 094002.	1.5	2
39	High-conversion-efficiency and tunable phase-stabilized infrared parametric laser source. Laser Physics, 2010, 20, 727-732.	1.2	1
40	Carrier-envelope phase offset for pulses from a tunable optical parametric amplifier. Optics Communications, 2011, 284, 3047-3050.	2.1	1
41	Perturbing laser field dependent high harmonic phase modulations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 125601.	1.5	1
42	Surface adhesion of back-illuminated ultrafast laser-treated polymers. Physical Review Materials, 2021, 5, .	2.4	1
43	Single Image Measurement of an Isolated Attosecond Pulse. , 2021, , .		1
44	Development of Femtosecond Petawatt Laser Technology. , 2007, , .		0
45	Tunable phase-stabilized infrared parametric laser source. Proceedings of SPIE, 2008, , .	0.8	0
46	In Situ Measurement of the Cooper Minimum in Argon. , 2021, , .		0
47	The Nonlinear Ellipse Rotation in BK7 Glass Plate and its Application. The Review of Laser Engineering, 2008, 36, 1105-1108.	0.0	0
48	Tunable Infrared laser femtosecond source and novel pulse clean technique. , 2010, , .		0
49	Toward the Generation of Isolated Attosecond Pulses in the Water Window. Springer Series in Chemical Physics, 2010, , 113-127.	0.2	0
50	High-efficiency radially-polarized pulses compression. , 2019, , .		0
51	Controlling N+ Lasing. , 2020, , .		0
52	Characterization of an Isolated Attosecond Pulse by Using Carrier-Envelope-Phase Dependence. , 2020, , .		0
53	Novel Method of Attosecond Pulse Measurement by using Carrier-Envelope-Phase Dependence. , 2021, , .		0