Ruxin Li

List of Publications by Year
in descending order

132 papers	3,042 citations	172457 29 h-index	197818 49 g-index
132 all docs	132 docs citations	132 times ranked	1798 citing authors

#	Article	IF	Citations
1	Generation of an Extreme Ultraviolet Supercontinuum in a Two-Color Laser Field. Physical Review Letters, 2007, 98, 203901.	7.8	309
2	339â€‰â€‰J high-energy Ti:sapphire chirped-pulse amplifier for 10â€‰â€‰PW laser facility. Optics Letters, 2018, 43, 5681.	3.3	115
3	Free-electron lasing at 27 nanometres based on a laser wakefield accelerator. Nature, 2021, 595, 516-520.	27.8	151
4	High-contrast 20 Petawatt Ti:sapphire laser system. Optics Express, 2013, 21, 29231.	3.4	121
5	Laser-filamentation-induced condensation and snow formation in a cloud chamber. Optics Letters, 2012, 37, 1214.	3.3	95
6	Parasitic lasing suppression in high gain femtosecond petawatt Ti:sapphire amplifier. Optics Express, 2007, 15, 15335.	3.4	93
7	Selective Enhancement of a Single Harmonic Emission in a Driving Laser Field with Subcycle Waveform Control. Physical Review Letters, 2013, 110, 233903.	7.8	91
8	Generation of carrier-envelope phase stabilized intense 15 cycle pulses at 175 Î¼m. Optics Express, 2011, 19, 6783.	3.4	87
9	Ultrahigh brilliance quasi-monochromatic MeV Î³-rays based on self-synchronized all-optical Compton scattering. Scientific Reports, 2016, 6, 29518.	3.3	66
10	Waveform-Controlled Terahertz Radiation from the Air Filament Produced by Few-Cycle Laser Pulses. Physical Review Letters, 2012, 108, 255004.	7.8	59
11	High-energy noncollinear optical parametricâ€“chirped pulse amplification in LBO at 800â€‰â€‰nm. Optics Letters, 2013, 38, 4837.	3.3	58
12	Laser wakefield acceleration of electron beams beyond 1 GeV from an ablative capillary discharge waveguide. Applied Physics Letters, 2011, 99, 091502.	3.3	56
13	Femtosecond-laser-driven wire-guided helical undulator for intense terahertz radiation. Nature Photonics, 2017, 11, 242-246.	31.4	56
14	Time-resolved investigation of low-density plasma channels produced by a kilohertz femtosecond laser in air. Physical Review E, 2005, 72, 026412.	2.1	54
15	Dynamic Chirp Control and Pulse Compression for Attosecond High-Order Harmonic Emission. Physical Review Letters, 2009, 103, 043904.	7.8	49
16	Few-cycle spatiotemporal soliton wave excited by filamentation of a femtosecond laser pulse in materials with anomalous dispersion. Physical Review A, 2006, 74, .	2.5	43
17	Ultrashort pulse temporal contrast enhancement based on noncollinear optical-parametric amplification. Optics Letters, 2011, 36, 781.	3.3	43
18	Quantum path control in few-optical-cycle regime. Physical Review A, 2007, 76, .	2.5	42

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19	Driving-laser ellipticity dependence of high-order harmonic generation in graphene. Physical Review A, 2018, 97, .	2.5	41
20	Enhancement and broadening of extreme-ultraviolet supercontinuum in a relative phase controlled two-color laser field. Optics Letters, 2008, 33, 234.	3.3	40
21	Modified hydrodynamic model and its application in the investigation of laser-cluster interactions. Physical Review A, 2001, 64, .	2.5	36
22	Effect of elliptical polarization of driving field on high-order-harmonic generation in semiconductor ZnO. Physical Review A, 2016, 93, .	2.5	36
23	Tunable phase-stabilized infrared optical parametric amplifier for high-order harmonic generation. Optics Letters, 2009, 34, 2730.	3.3	34
24	Robust and ultralow-energy-threshold ignition of a lean mixture by an ultrashort-pulsed laser in the filamentation regime. Light: Science and Applications, 2021, 10, 49.	16.6	34
25	Laser intensity dependence of high-order harmonic generation from aligned<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> molecules. Physical Review A, 2008, 78, .	2.5	33
26	Coherent control of broadband isolated attosecond pulses in a chirped two-color laser field. Physical Review A, 2010, 81, .	2.5	33
27	Electron Emission at Locked Phases from the Laser-Driven Surface Plasma Wave. Physical Review Letters, 2012, 109, 115002.	7.8	33
28	Control of seeding phase for a cascaded laser wakefield accelerator with gradient injection. Applied Physics Letters, 2013, 103, .	3.3	30
29	Pure Even Harmonic Generation from Oriented CO in Linearly Polarized Laser Fields. Physical Review Letters, 2017, 119, 173201.	7.8	30
30	Laser filamentation induced air-flow motion in a diffusion cloud chamber. Optics Express, 2013, 21, 9255.	3.4	29
31	Isolated attosecond pulse generation due to the nuclear dynamics of H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow	2.5	26
32	Extremely asymmetric electron localization in H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>controlled with a THz field. Physical Review A, 2014, 89, .	2.5	26
33	Direct observation of laser guided corona discharges. Scientific Reports, 2016, 5, 18681.	3.3	26
34	A Stable 200TW / 1Hz Ti:sapphire laser for driving full coherent XFEL. Optics and Laser Technology, 2016, 79, 141-145.	4.6	26
35	High-order dispersion control of 10-petawatt Ti:sapphire laser facility. Optics Express, 2017, 25, 17488.	3.4	24
36	Driving-laser wavelength dependence of high-order harmonic generation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mo>+</mml:mo> Physical Review A, 2010, 81, .	2.5	22

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37	Laser-filament-induced snow formation in a subsaturated zone in a cloud chamber: Experimental and theoretical study. Physical Review E, 2013, 88, 062803.	2.1	22
38	Laser-field-related recombination interference in high-order harmonic generation from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review A, 2009, 79, .	2.5	21
39	Effect of the carrier-envelope phase of the driving laser field on the high-order harmonic attosecond pulse. Physical Review A, 2003, 67, .	2.5	20
40	Single attosecond pulse generation using two-color polarized time-gating technique. Optics Express, 2005, 13, 9897.	3.4	20
41	Coherent control of the dissociation probability ofH2+in Ï‰-3Ï‰ two-color fields. Physical Review A, 2016, 93, .	2.5	20
42	Enhanced betatron radiation by steering a laser-driven plasma wakefield with a tilted shock front. Applied Physics Letters, 2018, 112, .	3.3	20
43	Angular and energy distribution of fast electrons emitted from a solid surface irradiated by femtosecond laser pulses in various conditions. Physics of Plasmas, 2010, 17, .	1.9	19
44	Laser-induced supersaturation and snow formation in a sub-saturated cloud chamber. Applied Physics B: Lasers and Optics, 2014, 117, 1001-1007.	2.2	19
45	Pulse temporal quality improvement in a petawatt Ti: Sapphire laser based on cross-polarized wave generation. Optics Communications, 2014, 313, 175-179.	2.1	19
46	Laser-filamentation-induced water condensation and snow formation in a cloud chamber filled with different ambient gases. Optics Express, 2016, 24, 7364.	3.4	19
47	Polarization-resolved analysis of high-order harmonic generation in monolayer MoS₂. New Journal of Physics, 2020, 22, 073046.	2.9	19
48	Quantum path interferences of electron trajectories in two-center molecules. Optics Express, 2010, 18, 2558.	3.4	18
49	Ultrafast Excitation of an Inner-Shell Electron by Laser-Induced Electron Recollision. Physical Review Letters, 2016, 116, 073901.	7.8	18
50	Selective generation of an intense single harmonic from a long gas cell with loosely focusing optics based on a three-color laser field. Applied Physics Letters, 2014, 104, 151101.	3.3	17
51	Ellipticity dependence of nonperturbative harmonic generation in few-layer MoS2. Optics Communications, 2020, 469, 125769.	2.1	17
52	Active control of the molecular rotational wave packet using two laser pulses. Chemical Physics Letters, 2009, 475, 183-187.	2.6	16
53	Nonadiabatic propagation effect for generating isolated sub-100 as pulses in the high-order harmonic plateau. Optics Letters, 2010, 35, 2618.	3.3	16
54	Polarization control of terahertz waves generated by circularly polarized few-cycle laser pulses. Applied Physics Letters, 2013, 103, .	3.3	16

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55	Femtosecond laser filament induced condensation and precipitation in a cloud chamber. Scientific Reports, 2016, 6, 25417.	3.3	16
56	Performance improvement of a 200TW/1Hz Ti:sapphire laser for laser wakefield electron accelerator. Optics and Laser Technology, 2020, 131, 106453.	4.6	16
57	Effects of initial humidity and temperature on laser-filamentation-induced condensation and snow formation. Applied Physics B: Lasers and Optics, 2013, 110, 375-380.	2.2	15
58	Electron quantum path tuning and isolated attosecond pulse emission driven by a waveform-controlled multi-cycle laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215601.	1.5	14
59	Direct mapping of attosecond electron dynamics. Nature Photonics, 2021, 15, 216-221.	31.4	14
60	Quantum path selection and control in high-order harmonic generation using a spatially shaped laser beam. Physical Review A, 2009, 79, .	2.5	13
61	Tunable high-order harmonic generation and the role of the folded quantum path. Physical Review A, 2008, 77, .	2.5	12
62	Phase-matching mechanism for high-photon-energy harmonics of a long trajectory driven by a midinfrared laser. Physical Review A, 2012, 85, .	2.5	12
63	High harmonic spectra contributed by HOMO-1 orbital of aligned CO_2 molecules. Optics Express, 2013, 21, 7599.	3.4	12
64	Manipulating electron-ion recollision in a midinfrared laser field. Physical Review A, 2015, 92, .	2.5	12
65	Spectroscopic analysis of high electric field enhanced ionization in laser filaments in air for corona guiding. High Power Laser Science and Engineering, 2016, 4, .	4.6	12
66	Frequency modulation of high-order harmonic generation in an orthogonally polarized two-color laser field. Optics Express, 2016, 24, 18685.	3.4	12
67	Bandwidth analysis of type-I optical parametric chirped pulse amplification systems. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2615.	2.1	11
68	Non-collinear phase-matching geometries in optical parametric chirped-pulse amplification. Optics Communications, 2014, 330, 24-29.	2.1	11
69	Corona discharge induced snow formation in a cloud chamber. Scientific Reports, 2017, 7, 11749.	3.3	11
70	High-order harmonic generation from twisted bilayer graphene driven by a midinfrared laser field. Physical Review A, 2021, 104, .	2.5	11
71	Single sub-100 attosecond pulse generation in a two-colour time-gating laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 115601.	1.5	10
72	Controlling coherent population transfer in molecular alignment using two laser pulses. Chemical Physics Letters, 2009, 480, 67-70.	2.6	10

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73	Mapping subcycle electron motion by modulated high-order harmonic generation. Physical Review A, 2012, 85, .	2.5	10
74	Enhanced high-order harmonic generation from excited argon. Applied Physics Letters, 2015, 107, 041110.	3.3	10
75	A novel measurement scheme for the radial group delay of large-aperture ultra-short laser pulses. Optics Communications, 2016, 367, 259-263.	2.1	10
76	Attosecond chirp effect on the transient absorption spectrum of laser-dressed helium atom. Optics Express, 2017, 25, 7707.	3.4	10
77	Nonlinear Thomson backscattering of intense laser pulses by electrons trapped in plasma-vacuum boundary. Laser and Particle Beams, 2009, 27, 365-370.	1.0	9
78	Attosecond pulse generation driven by a synthesized laser field with two pulses of controlled related phase. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074004.	1.5	9
79	Ellipticity dependence of the near-threshold harmonics of H_2 in an elliptical strong laser field. Optics Express, 2013, 21, 28676.	3.4	9
80	Attosecond photoionization for reconstruction of bound-electron wave packets. Physical Review A, 2014, 90, .	2.5	9
81	Differently patterned airflows induced by 1-kHz femtosecond laser filaments in a cloud chamber. Applied Physics B: Lasers and Optics, 2015, 121, 155-169.	2.2	9
82	Experimental demonstration of broadband femtosecond optical parametric amplification based on YCOB crystal at near critical wavelength degeneracy. Optics Communications, 2016, 370, 98-102.	2.1	9
83	Probing the effective length of plasma inside a filament. Optics Express, 2017, 25, 11078.	3.4	9
84	Laser-induced inner-shell excitations through direct electron re-collision versus indirect collision. Optics Express, 2020, 28, 23251.	3.4	9
85	Ionization effects on field-free molecular alignment observed with high-order harmonic generation. Optics Communications, 2009, 282, 2539-2542.	2.1	8
86	Initial carrier-envelope phase of few-cycle pulses determined by terahertz emission from air plasma. Applied Physics Letters, 2013, 103, 061111.	3.3	8
87	Effect of nuclear motion on spectral broadening of high-order harmonic generation. Optics Express, 2016, 24, 8194.	3.4	8
88	Chirped polarization-gating technique for isolated attosecond pulse generation. Laser Physics, 2009, 19, 1600-1606.	1.2	7
89	Experimental and numerical study on chirped transient stimulated Raman scattering in dispersive medium. Optics Communications, 2015, 351, 85-90.	2.1	7
90	Mapping the spectral phase of isolated attosecond pulses by extreme-ultraviolet emission spectrum. Optics Express, 2015, 23, 9858.	3.4	7

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91	Enhanced high-order harmonic generation from spatially prepared filamentation in argon. Optics Express, 2015, 23, 17229.	3.4	7
92	Chirped pulse Raman amplification in Ba(NO3)2 crystals. Optics and Laser Technology, 2015, 67, 8-11.	4.6	7
93	Attosecond transient-absorption spectroscopy in one-dimensional periodic crystals. Physical Review A, 2019, 100, .	2.5	7
94	Picosecond laser-induced water condensation in a cloud chamber. Optics Express, 2016, 24, 20494.	3.4	6
95	Broadband spectrographic method for precision alignment of compression gratings. Optical Engineering, 2016, 55, 086105.	1.0	6
96	Bright High-Order Harmonic Generation around 30 nm Using Hundred-Terawatt-Level Laser System for Seeding Full Coherent XFEL. Applied Sciences (Switzerland), 2018, 8, 1446.	2.5	6
97	Investigation of the temporal contrast evolution in a 10-PW-level Ti:sapphire laser facility. Optics Express, 2019, 27, 8683.	3.4	6
98	Demonstration of extreme ultraviolet supercontinuum at the high harmonic plateau with a 6.5 fs/800 nm driving laser pulse. Applied Physics Letters, 2009, 95, 141102.	3.3	5
99	Isolated attosecond pulse emission in the plateau region of high-order harmonics driven by a 7-fs 800-nm laser field. Physical Review A, 2009, 79, .	2.5	5
100	Robust generation of isolated attosecond pulse against the variation of carrier envelope phase of driving laser pulses. Physical Review A, 2010, 82, .	2.5	5
101	MeV surface fast electron emission from femtosecond laser pulses interacting with planar and nanowire targets. Plasma Physics and Controlled Fusion, 2014, 56, 075021.	2.1	5
102	Sharp plasma pinnacle structure based on shockwave for an improved laser wakefield accelerator. Plasma Physics and Controlled Fusion, 2018, 60, 075008.	2.1	5
103	An attempt to explain rain gush formation: the ionic wind approach. Plasma Research Express, 2019, 1, 035013.	0.9	5
104	Femtosecond laser filament guided negative coronas. AIP Advances, 2020, 10, .	1.3	5
105	Wavelength effect on atomic and molecular high harmonic generation driven by a tunable infrared parametric source. Optics Express, 2009, 17, 15061.	3.4	4
106	Two-center interference during the high harmonic generation in aligned O_2 molecules. Optics Express, 2011, 19, 147.	3.4	4
107	Active control scheme and mechanism in the two-pulse molecular alignment. Chemical Physics Letters, 2011, 506, 26-30.	2.6	4
108	Self-focusing of few-cycle laser pulses at 1800 nm in air. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094015.	1.5	4

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109	Energy Enhancement and Energy Spread Compression of Electron Beams in a Hybrid Laser-Plasma Wakefield Accelerator. Applied Sciences (Switzerland), 2019, 9, 2561.	2.5	4
110	Dual-color Î³-rays via all-optical Compton scattering from a cascaded laser-driven wakefield accelerator. Plasma Physics and Controlled Fusion, 2019, 61, 085030.	2.1	4
111	Controlling of the harmonic generation induced by the Berry curvature. Optics Express, 2021, 29, 37809.	3.4	4
112	Reliable laser ablation ignition of combustible gas mixtures by femtosecond filamentating laser. Fuel, 2022, 311, 122525.	6.4	4
113	Circularly polarized sub-1.5 cycle laser pulses at 1.8ÂÎ¼m. Applied Physics B: Lasers and Optics, 2014, 115, 93-97.	2.2	3
114	Laser guided ionic wind. Scientific Reports, 2018, 8, 13511.	3.3	3
115	Temporal evolution of condensation and precipitation induced by a 22-TW laser. Optics Express, 2018, 26, 2785.	3.4	3
116	A broadband low-chromatic-aberration single grating Offner stretcher by 3D analysis. Optics Communications, 2020, 465, 125502.	2.1	3
117	Femtosecond laser filament-assisted AgI-type pyrotechnic nucleant-induced water condensation in cloud chamber. Optics Express, 2018, 26, 29687.	3.4	3
118	Accurate measurement of carrier-envelope phase drift for infrared femtosecond laser pulses. Optics Express, 2008, 16, 21383.	3.4	2
119	Lasing Actions Inside a Femtosecond Laser Filament in Air. , 2016, , 121-146.		2
120	High Harmonic Generation from Aligned Molecules. Springer Series in Chemical Physics, 2011, , 127-143.	0.2	2
121	Goldilocks focal zone in femtosecond laser ignition of lean fuels. Science China Technological Sciences, 2022, 65, 1537-1544.	4.0	2
122	Carrier-envelope phase offset for pulses from a tunable optical parametric amplifier. Optics Communications, 2011, 284, 3047-3050.	2.1	1
123	Phase Evolution and THz Emission from a Femtosecond Laser Filament in Air. Springer Series in Chemical Physics, 2015, , 175-193.	0.2	1
124	Longitudinal characterization of the wake and electron bunch in a laser wakefield accelerator. Journal of Plasma Physics, 2019, 85, .	2.1	1
125	Generation of a high-temporal contrast ultrafast laser pulse near 1,053Ânm through stimulated Raman frequency shift. Applied Physics B: Lasers and Optics, 2014, 117, 973-978.	2.2	0
126	Efficient selection of a single harmonic emission using a multi-color laser field with an aperture-iris diaphragm. Laser Physics, 2014, 24, 085302.	1.2	0

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127	Intense THz radiation from laser plasma with controllable waveform and polarization. , 2015, , .		0
128	THz Waveforms and Polarization from Laser Induced Plasmas by Few-Cycle Pulses. , 2016, , 97-120.		0
129	Inner Shell Excitations through Laser Induced Electron Recollision. Journal of Physics: Conference Series, 2017, 875, 052041.	0.4	0
130	Polarization Dependence of Laser Induced inner-shell excitations. , 2021, , .		0
131	1ÂÎ¼m few-cycle pulse generation in a single-stage gas-filled hollow core fiber. Optics and Laser Technology, 2022, 154, 108279.	4.6	0
132	Polarization Dependence of Laser Induced inner-shell excitations. , 2022, , .		0