

Kyung-Han Hong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multi-octave-spanning supercontinuum generation through high-energy laser filaments in YAG and ZnSe pumped by a 2.4 μm femtosecond Cr:ZnSe laser. High Power Laser Science and Engineering, 2021, 9, .	4.6	2
2	Bandwidth extension and conversion efficiency improvements beyond phase matching limitations using cavity-enhanced OPCPA. Optics Express, 2021, 29, 9907.	3.4	3
3	Octave-spanning mid-infrared femtosecond OPA in a ZnGeP ₂ pumped by a 2.4 μm Cr:ZnSe chirped-pulse amplifier. Optics Express, 2020, 28, 32403.	3.4	18
4	Long-wavelength-infrared laser filamentation in solids in the near-single-cycle regime. Optics Letters, 2020, 45, 2175.	3.3	13
5	Supercontinuum generation in dispersion-engineered PECVD SiN waveguides for a Yb-fiber laser frequency comb. , 2020, , .		0
6	Highly efficient, octave-spanning mid-infrared OPA in ZnGeP ₂ pumped by a femtosecond Cr:ZnSe laser. , 2020, , .		0
7	Indistinguishable single-mode photons from spectrally engineered biphotons. Optics Express, 2019, 27, 11626.	3.4	16
8	Resonant Radiation of Mid-infrared Laser Filaments Driven by a 2.4 μm Femtosecond Cr: ZnSe Laser. , 2019, , .		1
9	Compact 1-MHz, 1- μm , Few-cycle, Passively CEP-stable 2- μm Source. , 2019, , .		0
10	Fiber-amplifier-pumped, 1-MHz, 1- μm , 21- μm , femtosecond OPA with chirped-pulse DFG front-end. Optics Express, 2019, 27, 9144.	3.4	5
11	Demonstration of femtosecond laser micromachining for figure correction of thin silicon optics for x-ray telescopes. , 2019, , .		5
12	Femtosecond 85 μm source based on intrapulse difference-frequency generation of 21 μm pulses. Optics Letters, 2018, 43, 1335.	3.3	36
13	Enhanced high-harmonic generation up to the soft X-ray region driven by mid-infrared pulses mixed with their third harmonic. Optics Express, 2018, 26, 16955.	3.4	24
14	Linear-Field Particle Acceleration in Free Space by Spatiotemporally Structured Laser Pulses. , 2018, , .		0
15	Highly-stable, 1 kHz, 200 mJ, 1.1 ps laser optically synchronized to a photocathode laser for inverse Compton scattering. , 2018, , .		1
16	Generation and multi-octave shaping of mid-infrared intense single-cycle pulses. Nature Photonics, 2017, 11, 222-226.	31.4	97
17	Laser-Induced Linear-Field Particle Acceleration in Free Space. Scientific Reports, 2017, 7, 11159.	3.3	39
18	Macroscopic scaling of high-order harmonics generated by two-color optimized waveforms in a hollow waveguide. Physical Review A, 2017, 96, .	2.5	4

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19	High-energy mid-infrared sub-cycle pulse synthesis from a parametric amplifier. Nature Communications, 2017, 8, 141.	12.8	125
20	High-energy mid-infrared sub-cycle pulse synthesis. , 2017, , .		0
21	Extreme nonlinear optics using strong mid-infrared laser pulses. , 2017, , .		0
22	High-harmonic generation in solids using a mid-infrared sub-cycle pulse synthesizer. , 2017, , .		0
23	Terahertz-driven, all-optical electron gun. Optica, 2016, 3, 1209.	9.3	78
24	Water-window soft x-ray high-harmonic generation up to the nitrogen K-edge driven by a kHz, 2.1 μm OPCPA source. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 155601.	1.5	54
25	Demonstration of an ultracompact THz-driven electron gun. , 2016, , .		0
26	Optimal generation of spatially coherent soft X-ray isolated attosecond pulses in a gas-filled waveguide using two-color synthesized laser pulses. Scientific Reports, 2016, 6, 38165.	3.3	12
27	Kagome-fiber-based pulse compression of mid-infrared picosecond pulses from a Ho:YLF amplifier: publisher's note. Optica, 2016, 3, 853.	9.3	2
28	Inhibition of multi-filamentation of high-power laser beams. Optics Letters, 2016, 41, 4064.	3.3	8
29	Kagome-fiber-based pulse compression of mid-infrared picosecond pulses from a Ho:YLF amplifier. Optica, 2016, 3, 816.	9.3	29
30	Mid-infrared laser filaments in air at a kilohertz repetition rate. Optica, 2016, 3, 678.	9.3	41
31	Octave-spanning 1.5-optical-cycle 6.5- μm OPA pumped by 2.1- μm OPCPA. , 2016, , .		1
32	Water-window soft X-ray high-harmonic generation up to the nitrogen K-edge driven by a kHz, 2.1 μm OPCPA source. , 2016, , .		1
33	Terahertz-driven, sub-keV electron gun. , 2016, , .		1
34	Mid-IR laser filamentation in air at a kHz repetition rate. , 2016, , .		0
35	Multi-filament Inhibition and Resulting Solitary Wave Formation in Condensed Matter. , 2016, , .		0
36	Mid-infrared sub-single-cycle pulse synthesis from a parametric amplifier covering the wavelength of 2.5-9.0 μm . , 2016, , .		0

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37	Octave-spanning 6- μm OPA pumped by 2.1- μm OPCPA. , 2016, , .		0
38	Monoenergetic Relativistic Electron Pulses by Laser-Driven Linear Acceleration in Free Space. , 2016, , .		0
39	Sub-keV Electron Gun Driven by Ultrafast THz Pulses. , 2016, , .		0
40	Generation of Bright, Spatially Coherent Soft X-Ray High Harmonics in a Hollow Waveguide Using Two-Color Synthesized Laser Pulses. Physical Review Letters, 2015, 115, 043901.	7.8	31
41	Toward a terahertz-driven electron gun. Scientific Reports, 2015, 5, 14899.	3.3	40
42	Coherent pulse synthesis: towards sub-cycle optical waveforms. Laser and Photonics Reviews, 2015, 9, 129-171.	8.7	179
43	Multi-mJ, kHz picosecond deep UV source based on a frequency-quadrupled cryogenic Yb:YAG laser. , 2015, , .		2
44	High-energy, kHz, picosecond hybrid Yb-doped chirped-pulse amplifier. Optics Express, 2015, 23, 10132.	3.4	31
45	Three-octave-spanning supercontinuum generation and sub-two-cycle self-compression of mid-infrared filaments in dielectrics. Optics Letters, 2015, 40, 1069.	3.3	90
46	Mid-IR Filamentation in Dielectrics: 3-octave-spanning Supercontinuum Generation and Sub-2-cycle Self-compression. , 2015, , .		0
47	Cryogenic Yb:YAG composite-thin-disk for high energy and average power amplifiers. Optics Letters, 2015, 40, 2610.	3.3	57
48	Terahertz-driven linear electron acceleration. Nature Communications, 2015, 6, 8486.	12.8	461
49	Multi-mJ, kHz, intense picosecond deep-ultraviolet source. , 2015, , .		0
50	Multi-mJ, kHz, ps deep-ultraviolet source. Optics Letters, 2015, 40, 665.	3.3	25
51	Multi-mJ mid-infrared kHz OPCPA and Yb-doped pump lasers for tabletop coherent soft x-ray generation. Journal of Optics (United Kingdom), 2015, 17, 094009.	2.2	13
52	Optimal generation of high harmonics in the water-window region by synthesizing 800-nm and mid-infrared laser pulses. Optics Letters, 2015, 40, 3754.	3.3	11
53	Highly efficient terahertz pulse generation by optical rectification in stoichiometric and cryo-cooled congruent lithium niobate. Journal of Modern Optics, 2015, 62, 1486-1493.	1.3	60
54	Versatile simulation package for ultrafast pulse propagation and high harmonic generation. , 2015, , .		0

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55	Multi-mJ, kHz, 2.1- μ m OPCPA for high-flux soft X-ray high-harmonic radiation. , 2014, , .		0
56	Multi-mJ, kHz, 2.1- μ m optical parametric chirped-pulse amplifier and high-flux soft x-ray high-harmonic generation. Optics Letters, 2014, 39, 3145.	3.3	122
57	Electron acceleration in a single-cycle terahertz field. , 2014, , .		0
58	Multi-mJ, kHz intense picosecond deep ultraviolet source based on a frequency-quadrupled cryogenic Yb:YAG laser. , 2014, , .		1
59	Efficient generation of ultra-intense few-cycle radially polarized laser pulses. Optics Letters, 2014, 39, 2487.	3.3	49
60	Compact x-ray source based on burst-mode inverse Compton scattering at 100 kHz. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	103
61	Wavelength Scaling of High Harmonic Generation Close to the Multiphoton Ionization Regime. Physical Review Letters, 2013, 111, 073901.	7.8	29
62	High energy and power cryogenic composite-thin-disk Yb:YAG laser. , 2013, , .		0
63	High conversion efficiency, high energy terahertz pulses by optical rectification in cryogenically cooled lithium niobate. Optics Letters, 2013, 38, 796.	3.3	245
64	Demonstration of Bandwidth and Conversion Efficiency Improvements beyond Phase-Matching Limitations in Cavity-Enhanced Optical Parametric Chirped Pulse Amplification. , 2013, , .		0
65	Performance scaling of high-power picosecond cryogenically cooled rod-type Yb:YAG multipass amplification. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2798.	2.1	9
66	Recombination-amplitude calculations of noble gases, in both length and acceleration forms, beyond the strong-field approximation. Physical Review A, 2013, 88, .	2.5	10
67	Tunable High Harmonic Generation driven by a Visible Optical Parametric Amplifier. EPJ Web of Conferences, 2013, 41, 01002.	0.3	1
68	Overcoming Intra-Cavity Nonlinear Phase Limitations in Cavity-Enhanced Optical Parametric Chirped Pulse Amplification through Cavity-Locking. , 2013, , .		0
69	Wavelength scaling of high-harmonic generation efficiency close to the multiphoton ionization regime. , 2013, , .		0
70	Highly efficient THz pulse generation from optical rectification in cryogenically cooled lithium niobate. , 2013, , .		0
71	Wavelength scaling of optimal hollow-core fiber compressors in the single-cycle limit. Optics Express, 2012, 20, 9099.	3.4	11
72	High-harmonic generation using a kHz, 2.1- μ m OPCPA pumped by a ps cryogenic Yb:YAG amplifier. , 2012, , .		0

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73	Cut-off scaling of high-harmonic generation driven by a femtosecond visible optical parametric amplifier. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 205601.	1.5	14
74	Dispersion-Induced Depletion Instabilities in Cavity-Enhanced Optical Parametric Chirped Pulse Amplification. , 2012, , .		0
75	High-order harmonic generation in Xe, Kr, and Ar driven by a 2.1- μm source: High-order harmonic spectroscopy under macroscopic effects. Physical Review A, 2012, 86, .	2.5	17
76	Optical waveform synthesizer and its application to high-harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074009.	1.5	25
77	CEP-Stable, Few-Cycle, kHz OPCPAs for Attosecond Science: Energy Scaling and Coherent Sub-Cycle Pulse Synthesis. Springer Proceedings in Physics, 2012, , 33-40.	0.2	0
78	Wavelength scaling of hollow-core fiber compressor design parameters. , 2012, , .		0
79	Scaling of High Harmonic Generation with Visible Driver Wavelengths. , 2012, , .		0
80	High-energy, phase-stable, ultrabroadband kHz OPCPA at 21 μm pumped by a picosecond cryogenic Yb:YAG laser. Optics Express, 2011, 19, 15538.	3.4	76
81	Demonstration of a cavity-enhanced optical parametric chirped-pulse amplification system. Optics Letters, 2011, 36, 1206.	3.3	8
82	High-energy pulse synthesis with sub-cycle waveform control for strong-field physics. Nature Photonics, 2011, 5, 475-479.	31.4	308
83	Influence of Nonadiabatic Tunneling Ionization on Short-Wavelength-Driven High Harmonic Generation. , 2011, , .		0
84	Scalable High-Energy Sub-Cycle Waveform Synthesis for High-Field Physics. , 2011, , .		0
85	Interplay of multiphoton and tunneling ionization in short-wavelength-driven high-order harmonic generation. Physical Review A, 2011, 84, .	2.5	11
86	Demonstration of phase matching bandwidth extension in cavity-enhanced optical parametric chirped pulse amplification. , 2011, , .		0
87	Scaling of high harmonic generation conversion efficiency. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 045601.	1.5	20
88	High-energy, Few-cycle, kHz OPCPA at 2.1 μm Pumped by a Picosecond Cryogenic Yb:YAG Laser. , 2011, , .		0
89	Generation of Sub-150-fs, 100 nJ Pulses from a Low-cost Cavity-dumped Cr:LiSAF Laser. , 2010, , .		0
90	Ultrabroadband Optical Parametric Chirped Pulse Amplifier System for Single-Cycle Waveform Synthesis. , 2010, , .		0

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91	Scaling of high-order harmonic efficiencies with visible wavelength drivers: A route to efficient extreme ultraviolet sources. Applied Physics Letters, 2010, 97, 061107.	3.3	42
92	Scalable High-Energy Sub-Cycle Waveform Synthesis. , 2010, , .		0
93	High-energy, picosecond, cryogenic Yb:YAG chirped-pulse amplifier at kHz repetition rates for OPCPA pumping. , 2010, , .		0
94	Low-cost cavity-dumped femtosecond Cr:LiSAF laser producing >100 nJ pulses. Optics Letters, 2010, 35, 607.	3.3	8
95	High-energy, kHz-repetition-rate, ps cryogenic Yb:YAG chirped-pulse amplifier. Optics Letters, 2010, 35, 1752.	3.3	75
96	Performance scaling via passive pulse shaping in cavity-enhanced optical parametric chirped-pulse amplification. Optics Letters, 2010, 35, 1929.	3.3	10
97	Scaling of high harmonic generation efficiencies with 400-nm and 800-nm driver pulses. , 2010, , .		1
98	Generation of 2-kHz, 40-mJ Picosecond Pulses from a Cryogenic Yb:YAG Chirped-Pulse Amplifier for OPCPA Pumping. , 2010, , .		0
99	Demonstration of Cavity-Enhanced Optical Parametric Chirped-Pulse Amplification System at High Repetition Rate. , 2010, , .		0
100	Recent advances in Cr: Colquiriite laser technology. , 2009, , .		0
101	Highly stable ultrabroadband mid-IR optical parametric chirped-pulse amplifier optimized for superfluorescence suppression. Optics Letters, 2009, 34, 1639.	3.3	96
102	130-W picosecond green laser based on a frequency-doubled hybrid cryogenic Yb:YAG amplifier. Optics Express, 2009, 17, 16911.	3.4	31
103	High-Power, Few-Cycle, Phase-Stabilized 2.2- μm Optical Parametric Chirped Pulse Amplifier. , 2009, , .		0
104	Strong Bandwidth and Efficiency Improvement by Passive Pulse Shaping in Cavity-Enhanced OPCPA. , 2009, , .		0
105	High-average-power cryogenically-cooled picosecond Yb:YAG amplifier seeded by a fiber CPA system. , 2009, , .		0
106	Stable generation of GeV-class electron beams from self-guided laserâ€‘plasma channels. Nature Photonics, 2008, 2, 571-577.	31.4	291
107	Generation of 287 W, 55 ps pulses at 78 MHz repetition rate from a cryogenically cooled Yb:YAG amplifier seeded by a fiber chirped-pulse amplification system. Optics Letters, 2008, 33, 2473.	3.3	60
108	Characteristics of a Ni-like silver x-ray laser pumped by a single profiled laser pulse. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B76.	2.1	9

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109	Demonstration of a saturated Ni-like Ag x-ray laser pumped by a single profiled laser pulse from a 10-Hz Ti:sapphire laser system. <i>Physical Review A</i> , 2008, 77, .	2.5	44
110	Laser-driven proton sources and their applications: femtosecond intense laser plasma driven simultaneous proton and x-ray imaging. <i>Journal of Physics: Conference Series</i> , 2008, 112, 042036.	0.4	3
111	Laser Driven Particle Accelerators and their Application to Science, Industry and Medicine. <i>The Review of Laser Engineering</i> , 2008, 36, 1123-1124.	0.0	0
112	2-micron optical parametric chirped pulse amplifier for long-wavelength driven high harmonic generation. , 2008, , .		0
113	Dependence of the electron beam parameters on the stability of laser propagation in a laser wakefield accelerator. <i>Applied Physics Letters</i> , 2007, 90, 151501.	3.3	32
114	Simultaneous Proton and X-ray Imaging with Femtosecond Intense Laser Driven Plasma Source. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5853.	1.5	21
115	Accurate Contrast-ratio Characterization of Femtosecond and Chirped Picosecond Pulses Using the Decorrelation of Third-order Correlation Trace. , 2007, , .		0
116	Full characterization of a GRIP Ni-like Ag amplifier for seeding with high harmonics at 13.9 nm. , 2007, , .		0
117	Stabilization and control of the carrier-envelope phase of high-power femtosecond laser pulses using the direct locking technique. <i>Optics Express</i> , 2007, 15, 104.	3.4	15
118	Precise and long-term stabilization of the carrier-envelope phase of femtosecond laser pulses using an enhanced direct locking technique. <i>Optics Express</i> , 2007, 15, 8203.	3.4	22
119	Dispersion and birefringence of irregularly microstructured fiber with an elliptic core. <i>Applied Optics</i> , 2007, 46, 8493.	2.1	6
120	Optical damage evaluation of a CPA Ti:sapphire laser for the safe design of a PW system. , 2007, , .		1
121	Accurate contrast-ratio characterization of femtosecond and chirped picosecond pulses using the decorrelation of third-order correlation trace. , 2007, , .		0
122	Electric-field reconstruction of femtosecond laser pulses from interferometric autocorrelation using an evolutionary algorithm. <i>Optics Communications</i> , 2007, 271, 169-177.	2.1	15
123	Measurement of the Electron Density Produced by the Prepulse in an Experiment of High Energy Proton Beam Generation. <i>Journal of the Korean Physical Society</i> , 2007, 50, 34-39.	0.7	5
124	Downchirped Regenerative Amplification of Femtosecond Laser Pulses at 100 kHz Repetition Rate. <i>Springer Series in Optical Sciences</i> , 2007, , 493-501.	0.7	2
125	100-kHz high-power femtosecond Ti:sapphire laser based on downchirped regenerative amplification. <i>Optics Express</i> , 2006, 14, 970.	3.4	18
126	Development of a 100-kHz femtosecond high-power laser using down-chirped regenerative amplification. <i>Laser Physics</i> , 2006, 16, 673-677.	1.2	2

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127	Carrier-envelope phase stabilization of high-contrast femtosecond laser pulses with a relativistic intensity. <i>Applied Physics Letters</i> , 2006, 89, 031113.	3.3	11
128	Generation and measurement of > 108 intensity contrast ratio in a relativistic kHz chirped-pulse amplified laser. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 447-457.	2.2	81
129	Novel method for carrier-envelope-phase stabilization of femtosecond laser pulses. <i>Optics Express</i> , 2005, 13, 2969.	3.4	42
130	Chirp analysis of high-order harmonics from atoms driven by intense femtosecond laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1141-1152.	1.5	11
131	Adaptive Pulse Compression of Femtosecond Laser Pulses Using a Low-Loss Pulse Shaper. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5289-5293.	1.5	6
132	Optimization of high-order harmonic brightness in the space and time domains. <i>Physical Review A</i> , 2004, 69, .	2.5	56
133	Efficient high-order harmonic generation in a two-color laser field. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 859-861.	2.2	20
134	Measurement of the group-delay dispersion of femtosecond optics using white-light interferometry. <i>Review of Scientific Instruments</i> , 2004, 75, 2266-2270.	1.3	13
135	Direct Locking of the Carrier-Envelope Phase of Femtosecond Laser Pulses. <i>Springer Series in Optical Sciences</i> , 2004, , 171-177.	0.7	0
136	Coherent control of high-order harmonics generated with intense femtosecond laser pulses. <i>European Physical Journal D</i> , 2003, 26, 43-46.	1.3	1
137	High-power Femtosecond Ti:sapphire Laser at 1 KHz with a Long-cavity Femtosecond Oscillator. <i>Journal of the Optical Society of Korea</i> , 2003, 7, 135-138.	0.6	4
138	Continuously tunable high-order harmonics from atoms in an intense femtosecond laser field. <i>Physical Review A</i> , 2003, 67, .	2.5	65
139	Observation of enhanced soft x-ray emission using nitrogen clusters ionized by intense, femtosecond laser. <i>Journal of Applied Physics</i> , 2003, 93, 3105-3107.	2.5	1
140	Generation of bright low-divergence high-order harmonics in a long gas jet. <i>Applied Physics Letters</i> , 2002, 81, 3726-3728.	3.3	34
141	Adaptive quantum control of DCM fluorescence in the liquid phase. <i>Journal of Chemical Physics</i> , 2002, 117, 9858-9861.	3.0	44
142	13-fs, 1-MW Ti:Sapphire Laser Oscillator in a Long-Cavity Configuration. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L931-L934.	1.5	11
143	Investigation of soft X-ray emission from Ar clusters heated by ultrashort laser pulses. <i>Laser and Particle Beams</i> , 2002, 20, 51-57.	1.0	2
144	Measurement of energetic electrons from atomic clusters irradiated by intense femtosecond laser pulses. <i>Physics of Plasmas</i> , 2002, 9, 3595-3599.	1.9	22

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145	Emission of a hot electron jet from intense femtosecond-laser cluster interactions. Physical Review E, 2002, 66, 025402.	2.1	37
146	Time-frequency analysis of chirped femtosecond pulses using Wigner distribution function. Applied Physics B: Lasers and Optics, 2002, 74, s231-s236.	2.2	21
147	Temporal characterization of chirped femtosecond laser pulses. Optics Communications, 2002, 213, 193-200.	2.1	17
148	<title>Efficient high-order harmonic generation using a long gas jet</title>. , 2001, , .		0
149	<title>Soft x-ray emission from Ar clusters heated by ultrashort laser pulse</title>. , 2001, , .		0
150	Nonadiabatic blueshift of high-order harmonics from Ar and Ne atoms in an intense femtosecond laser field. Physical Review A, 2001, 63, .	2.5	41
151	Coherent Control of High-Order Harmonics with Chirped Femtosecond Laser Pulses. Physical Review Letters, 2001, 87, 243902.	7.8	111
152	Tunable coherent femtosecond X-ray source driven by an intense femtosecond laser. European Physical Journal Special Topics, 2001, 11, Pr2-345-Pr2-350.	0.2	0
153	Interaction of intense, femtosecond laser pulse with small-sized Ne clusters. European Physical Journal Special Topics, 2001, 11, Pr2-433-Pr2-436.	0.2	0
154	High-harmonic generation in an intense femtosecond laser field. , 2000, 3886, 501.		0
155	Incorporation of a cavity-dumped oscillator in a long-wavelength injected femtosecond terawatt Ti:sapphire laser. Optics Communications, 2000, 185, 413-418.	2.1	6
156	Soft-x-ray emission from small-sized Ne clusters heated by intense, femtosecond laser pulses. Physical Review E, 2000, 62, 4461-4464.	2.1	13
157	Enhancement of soft x-ray emission from a cryogenically cooled Ar gas jet irradiated by 25 fs laser pulse. Applied Physics Letters, 2000, 76, 1819-1821.	3.3	30
158	Generation of Nonadiabatic Blueshift of High Harmonics in an Intense Femtosecond Laser Field. Physical Review Letters, 1999, 83, 2544-2547.	7.8	101
159	Measurement of the group-delay dispersion of optical elements using white-light interferometry. , 0, , .		0
160	Adaptive pulse compression of femtosecond laser pulses using a low-loss pulse shaper. , 0, , .		0