

# Arnaud Couairon

## List of Publications by Year in descending order

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229  
papers

13,126  
citations

28736

57  
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26792

111  
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231  
all docs

231  
docs citations

231  
times ranked

4784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral and intensity control of high energy terahertz radiation from bulk liquids. Journal Physics D: Applied Physics, 2022, 55, 095107.	1.3	0
2	Control of the acoustic waves generated by intense laser filamentation in water. Optics Express, 2022, 30, 9103.	1.7	6
3	4D spatio-temporal electric field characterization of ultrashort light pulses undergoing filamentation. Optics Express, 2022, 30, 27938.	1.7	2
4	Postfilament supercontinuum on 100m path in air. Optics Letters, 2021, 46, 1125.	1.7	15
5	Stability of ablation flows in inertial confinement fusion: Nonmodal effects. Physical Review E, 2021, 103, 023211.	0.8	1
6	Efficient second-harmonic generation of a high-energy, femtosecond laser pulse in a lithium triborate crystal. Optics Letters, 2021, 46, 3540.	1.7	13
7	Remote triggering of air-gap discharge by a femtosecond laser filament and postfilament at distances up to 80 m. Applied Physics Letters, 2021, 119, .	1.5	13
8	Tracing Evolution of Angle-Wavelength Spectrum along the 40-m Postfilament in Corridor Air. Photonics, 2021, 8, 446.	0.9	3
9	Investigation of supersonic heat-conductivity hyperbolic waves in radiative ablation flows. Physical Review E, 2020, 101, 043215.	0.8	2
10	Postcompression of picosecond pulses into the few-cycle regime. Optics Letters, 2020, 45, 2572.	1.7	95
11	Post-compression of high average power picosecond pulses for few cycle generation and FEL pump-probe experiments. EPJ Web of Conferences, 2020, 243, 21002.	0.1	0
12	Tight focusing of electromagnetic fields by large-aperture mirrors. Physical Review E, 2019, 100, 033316.	0.8	8
13	Determination of molecular contributions to the nonlinear refractive index of air for mid-infrared femtosecond laser-pulse excitation. Physical Review A, 2019, 99, .	1.0	9
14	Femtosecond Filamentation in Solid-State Media. SpringerBriefs in Physics, 2019, , 27-46.	0.2	0
15	Experimental Results. SpringerBriefs in Physics, 2019, , 65-94.	0.2	0
16	DNA Base Modifications Mediated by Femtosecond Laser-Induced Cold Low-Density Plasma in Aqueous Solutions. Journal of Physical Chemistry Letters, 2019, 10, 2753-2760.	2.1	6
17	Governing Physical Effects. SpringerBriefs in Physics, 2019, , 9-26.	0.2	0
18	Ultrafast Supercontinuum Generation in Transparent Solid-State Media. SpringerBriefs in Physics, 2019, , .	0.2	21

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19	General Practical Considerations. SpringerBriefs in Physics, 2019, , 49-63.	0.2	0
20	In-line Spectral Interferometry in Shortwave-Infrared Laser Filaments in Air. Physical Review Letters, 2019, 123, 223203.	2.9	3
21	Third-harmonic generation from regularized converging filaments. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A66.	0.9	7
22	Analysis of the angular spectrum for ultrashort laser pulses. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A105.	0.9	6
23	Invited Article: Filamentary deposition of laser energy in glasses with Bessel beams. APL Photonics, 2018, 3, 120805.	3.0	21
24	Measurements of fluence profiles in femtosecond laser sparks and superfilaments in air. Physical Review A, 2018, 97, .	1.0	0
25	Cell viability and shock wave amplitudes in the endothelium of porcine cornea exposed to ultrashort laser pulses. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 945-953.	1.0	5
26	Highly efficient broadband terahertz generation from ultrashort laser filamentation in liquids. Nature Communications, 2017, 8, 1184.	5.8	132
27	Multi-octave spanning nonlinear interactions induced by femtosecond filamentation in polycrystalline ZnSe. Applied Physics Letters, 2017, 110, .	1.5	30
28	Second-order cascading-assisted filamentation and controllable supercontinuum generation in birefringent crystals. Optics Express, 2017, 25, 6746.	1.7	26
29	Phase-Insensitive Scattering of Terahertz Radiation. Photonics, 2017, 4, 7.	0.9	4
30	Optimization of laser energy deposition for single-shot high aspect-ratio microstructuring of thick BK7 glass. Journal of Applied Physics, 2016, 120, .	1.1	28
31	Scale-invariant nonlinear optics in gases. Optica, 2016, 3, 75.	4.8	107
32	Nonlinear plasma-assisted collapse of ring-Airy wave packets. Physical Review A, 2016, 93, .	1.0	24
33	Underwater acoustic wave generation by filamentation of terawatt ultrashort laser pulses. Physical Review E, 2016, 93, 063106.	0.8	27
34	Odd harmonics-enhanced supercontinuum in bulk solid-state dielectric medium. Optics Express, 2016, 24, 17060.	1.7	17
35	Imaging of bessel filaments in fused silica and impact on modelling the underlying light-matter physics. , 2016, , .		0
36	Spaceborne laser filamentation for atmospheric remote sensing. Laser and Photonics Reviews, 2016, 10, 481-493.	4.4	45

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37	[INVITED] Ultrafast laser micro- and nano-processing with nondiffracting and curved beams. Optics and Laser Technology, 2016, 80, 125-137.	2.2	88
38	Filamentation and Pulse Self-compression in the Anomalous Dispersion Region of Glasses. , 2016, , 147-165.		3
39	Acoustic wave generation by multifilamentation in water. , 2016, , .		1
40	Enhanced absorption and plasmon excitation in the bulk of fused silica with femtosecond Bessel beams. , 2016, , .		0
41	Tubular filamentation for laser material processing. Scientific Reports, 2015, 5, 8914.	1.6	63
42	Propagation equation for tight-focusing by a parabolic mirror. Optics Express, 2015, 23, 31240.	1.7	33
43	Plasma Luminescence from Femtosecond Filaments in Air: Evidence for Impact Excitation with Circularly Polarized Light Pulses. Physical Review Letters, 2015, 114, 063003.	2.9	83
44	Laser-assisted guiding of electric discharges around objects. Science Advances, 2015, 1, e1400111.	4.7	110
45	Plasma absorption evidence via chirped pulse spectral transmission measurements. Applied Physics Letters, 2015, 106, 231101.	1.5	9
46	Generation of long-lived underdense channels using femtosecond filamentation in air. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094009.	0.6	51
47	Laser beam self-symmetrization in air in the multifilamentation regime. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094013.	0.6	10
48	Nonlinear Bessel vortex beams for applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094006.	0.6	36
49	Light trajectory in Bessel-Gauss vortex beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1313.	0.8	15
50	Carrier-envelope phase-stable spatiotemporal light bullets. Optics Letters, 2015, 40, 3719.	1.7	36
51	Optical Aspect of Ultrafast Laser Ablation on Transparent Dielectrics: Ciliary White Light. , 2015, , .		0
52	Guiding Discharges along Curved Paths. , 2015, , .		0
53	Laser Guided Curved Electric Discharges. , 2015, , .		0
54	Backward Lasing of Femtosecond Plasma Filaments. Springer Series in Chemical Physics, 2015, , 89-103.	0.2	0

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55	Effect of input pulse chirp on nonlinear energy deposition and plasma excitation in water. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2829.	0.9	25
56	Energy deposition dynamics of femtosecond pulses in water. Applied Physics Letters, 2014, 105, .	1.5	26
57	Nonlinear energy deposition in water from fs-laser pulses: effect of the input chirp. , 2014, , .		0
58	Third and fifth harmonic generation in transparent solids with few optical cycle mid-infrared pulses. , 2014, , .		0
59	Propagation of intense femtosecond laser pulse in water and acoustic waves generation. , 2014, , .		1
60	Imaging Ultrafast Light-Matter Interaction with Inverse Raman Scattering. , 2014, , .		0
61	Backward Lasing of Air plasma pumped by Circularly polarized femtosecond pulses for the sake of remote sensing (BLACK). Optics Express, 2014, 22, 29964.	1.7	59
62	Self-reconstructing spatiotemporal light bullets. Optics Express, 2014, 22, 30613.	1.7	25
63	Filamentation with nonlinear Bessel vortices. Optics Express, 2014, 22, 25410.	1.7	35
64	Third- and fifth-harmonic generation in transparent solids with few-optical-cycle midinfrared pulses. Physical Review A, 2014, 89, .	1.0	23
65	Spatiotemporal Light Bullets in Bulk Media. , 2014, , .		0
66	Nonlinear optical phenomena in bulk dielectric media with few optical cycle mid-IR pulses. , 2014, , .		0
67	Resonant Radiation from Collapsing Light Pulses and Spatiotemporal Light Bullets. , 2014, , .		0
68	Nature of Spatiotemporal Light Bullets in Bulk Kerr Media. Physical Review Letters, 2014, 112, 193901.	2.9	91
69	Whole life cycle of femtosecond ultraviolet filaments in water. Physical Review A, 2014, 89, .	1.0	43
70	Generation of high harmonics and attosecond pulses with ultrashort laser pulse filaments and conical waves. Pramana - Journal of Physics, 2014, 83, 221-230.	0.9	5
71	Controlling high-power autofocusing waves with periodic lattices. Optics Letters, 2014, 39, 4958.	1.7	16
72	Superfilamentation in Air. Physical Review Letters, 2014, 112, 223902.	2.9	80

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73	A Waveguide Made of Hot Air. Physics Magazine, 2014, 7, .	0.1	2
74	Third Harmonic Generation from Perturbed Femtosecond Filaments in Air. Springer Series in Chemical Physics, 2014, , 77-93.	0.2	0
75	Study of the interaction between multiple filaments in air. , 2014, , .		0
76	Sharply autofocused ring-Airy beams transforming into non-linear intense light bullets. Nature Communications, 2013, 4, 2622.	5.8	290
77	Dynamics of third harmonic yield from a femtosecond laser filament in air. , 2013, , .		0
78	Ciliary White Light: Optical Aspect of Ultrashort Laser Ablation on Transparent Dielectrics. Physical Review Letters, 2013, 110, 097601.	2.9	23
79	Self-Guided Propagation of Ultrashort Laser Pulses in the Anomalous Dispersion Region of Transparent Solids: A New Regime of Filamentation. Physical Review Letters, 2013, 110, 115003.	2.9	116
80	Blueshifted continuum peaks from filamentation in the anomalous dispersion regime. Physical Review A, 2013, 87, .	1.0	57
81	Wavelength Scaling of Terahertz Generation by Gas Ionization. Physical Review Letters, 2013, 110, 253901.	2.9	310
82	Ultrabroadband supercontinuum and third-harmonic generation in bulk solids with two optical-cycle carrier-envelope phase-stable pulses at 2 $\mu$ m. Optics Express, 2013, 21, 25210.	1.7	62
83	Self-compression to sub-3-cycle duration of mid-infrared optical pulses in dielectrics. Optics Express, 2013, 21, 28095.	1.7	111
84	Tailoring femtosecond laser pulse filamentation using plasma photonic lattices. Applied Physics Letters, 2013, 103, .	1.5	14
85	Ciliary white light generated during femtosecond laser ablation on transparent dielectrics. , 2013, , .		0
86	Multi-octave supercontinuum generation from mid-infrared filamentation in a bulk crystal. EPJ Web of Conferences, 2013, 41, 10010.	0.1	0
87	Materials processing using abruptly autofocusing beams. , 2013, , .		0
88	High Average Power Few-Cycle Pulses in the Mid-IR, Self-Compression and Continuum Generation. , 2013, , .		0
89	Influence of the anomalous dispersion on the supercontinuum generation by femtosecond laser filamentation. , 2013, , .		0
90	A Scaling Mechanism for Increasing the Terahertz Emission from Ionization of Air. , 2013, , .		0

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91	Blueshifted Continuum Peaks from Filamentation in the Anomalous Dispersion Regime. , 2013, , .		0
92	Nonlinear propagation dynamics of finite-energy Airy beams. Physical Review A, 2012, 86, .	1.0	83
93	Towards light-matter interaction at extreme intensities using high-angle Bessel beams. , 2012, , .		0
94	Multi-octave supercontinuum from bulk filamentation of a mid-IR pulse. , 2012, , .		0
95	Enhanced Detection of Broadband Terahertz Fields via the Filamentation of Chirped Optical Pulses. , 2012, , .		0
96	Nonlinear propagation and filamentation of intense Airy beams in transparent media. Proceedings of SPIE, 2012, , .	0.8	3
97	Observation and Optical Tailoring of Photonic Lattice Filaments. Physical Review Letters, 2012, 109, 113905.	2.9	24
98	Cavitation dynamics and directional microbubble ejection induced by intense femtosecond laser pulses in liquids. Physical Review E, 2012, 86, 036304.	0.8	31
99	Probing Femtosecond Filamentation via High-order Harmonics. , 2012, , .		0
100	Multi-octave supercontinuum generation from mid-infrared filamentation in a bulk crystal. Nature Communications, 2012, 3, 807.	5.8	243
101	Trajectory interferences in a semi-infinite gas cell. Laser Physics Letters, 2012, 9, 207-211.	0.6	5
102	Nonlinear light-matter interaction with femtosecond high-angle Bessel beams. Physical Review A, 2012, 85, .	1.0	46
103	Femtosecond laser pulse control of collapsing bubble jets and bubble ejection streams. , 2012, , .		0
104	Terahertz Field Detection Boost by Nonlinear Collapse of Normally Dispersed Optical Pulses. , 2012, , .		0
105	High-order harmonic generation directly from a filament. New Journal of Physics, 2011, 13, 043022.	1.2	47
106	Intense dynamic bullets in a periodic lattice. Optics Express, 2011, 19, 10057.	1.7	12
107	Tracking spectral shapes and temporal dynamics along a femtosecond filament. Optics Express, 2011, 19, 19495.	1.7	17
108	3-octave high-energy supercontinuum from visible to mid-IR. , 2011, , .		0

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109	Efficient third harmonic generation by two crossing filaments. , 2011, , .		0
110	Efficient generation of third harmonic radiation in air filaments: A revisit. Optics Communications, 2011, 284, 4706-4713.	1.0	55
111	Stationary nonlinear Airy beams. Physical Review A, 2011, 84, .	1.0	123
112	Practitioner's guide to laser pulse propagation models and simulation. European Physical Journal: Special Topics, 2011, 199, 5-76.	1.2	285
113	Towards few-cycle pulses with relativistic intensities, using pulse compression in planar waveguides. , 2011, , .		0
114	Carrier-envelope shearing and isolated attosecond pulse generation. Physical Review A, 2011, 83, .	1.0	4
115	Measurement and Control of Plasma Oscillations in Femtosecond Filaments. Physical Review Letters, 2011, 106, 255002.	2.9	25
116	3-octave high-energy supercontinuum from a 2 &#x00B5;m source. , 2011, , .		0
117	Spontaneous currents inside air filaments. , 2011, , .		0
118	Measurement and control of electric currents in Ar and N2 filaments. , 2011, , .		0
119	Angle-frequency analysis of high-order harmonic generation. , 2011, , .		0
120	Focal dynamics of multiple filaments: Microscopic imaging and reconstruction. Physical Review A, 2010, 82, .	1.0	64
121	Focusing of ultrashort sub-TW laser pulses in air: supercontinuum emission. , 2010, , .		1
122	Energy-flux characterization of conical and space-time coupled wave packets. Physical Review A, 2010, 81, .	1.0	26
123	Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices. Physical Review A, 2010, 82, .	1.0	25
124	Filamentation without intensity clamping. Optics Express, 2010, 18, 21504.	1.7	61
125	Space-time focusing of Bessel-like pulses. Optics Letters, 2010, 35, 3267.	1.7	11
126	Energy density characterization of complex ultrashort laser pulses. , 2010, , .		0



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127	Wavelength tuning of a few-cycle laser pulse by molecular alignment in femtosecond filamentation wake. <i>Physical Review A</i> , 2009, 79, .	1.0	29
128	Near-infrared optical parametric amplification in a gas-filled hollow fibre. , 2009, , .		0
129	Energy up-scalable ultrashort pulse compression using planar hollow waveguides. , 2009, , .		0
130	Intensity Spikes in Laser Filamentation: Diagnostics and Application. <i>Physical Review Letters</i> , 2009, 103, 043901.	2.9	52
131	Physical characterization of light-plasma filaments in water using time resolved shadowgraphy. , 2009, , .		0
132	Compression of High Energy Ultrashort Laser Pulses in Hollow Planar Waveguides. , 2009, , .		0
133	Generation of long plasma channels in air by focusing ultrashort laser pulses with an axicon. <i>Optics Communications</i> , 2009, 282, 129-134.	1.0	64
134	Control of femtosecond filamentation by field-free revivals of molecular alignment. <i>Laser Physics</i> , 2009, 19, 1759-1768.	0.6	43
135	Spectral modulation of femtosecond laser pulse induced by molecular alignment revivals. <i>Optics Letters</i> , 2009, 34, 827.	1.7	52
136	Terahertz pulse emission optimization from tailored femtosecond laser pulse filamentation in air. <i>Optics Letters</i> , 2009, 34, 2165.	1.7	52
137	Accurate retrieval of pulse-splitting dynamics of a femtosecond filament in water by time-resolved shadowgraphy. <i>Optics Letters</i> , 2009, 34, 3020.	1.7	42
138	Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams. <i>Optics Express</i> , 2009, 17, 5052.	1.7	31
139	Experimental energy-density flux characterization of ultrashort laser pulse filaments. <i>Optics Express</i> , 2009, 17, 8193.	1.7	22
140	Compression of ultrashort laser pulses in planar hollow waveguides: a stability Analysis. <i>Optics Express</i> , 2009, 17, 11122.	1.7	13
141	Few-cycle shock $\chi$ -wave generation by filamentation in prealigned molecules. <i>Physical Review A</i> , 2009, 80, .	1.0	23
142	Tunable, octave-spanning supercontinuum driven by X-Waves formation in condensed Kerr media.. <i>Springer Series in Chemical Physics</i> , 2009, , 858-860.	0.2	0
143	Self-focusing and Filamentation of Femtosecond Pulses in Air and Condensed Matter: Simulations and Experiments. <i>Topics in Applied Physics</i> , 2009, , 297-322.	0.4	6
144	On the Role of Conical Waves in Self-focusing and Filamentation of Femtosecond Pulses with Nonlinear Losses. <i>Topics in Applied Physics</i> , 2009, , 457-479.	0.4	11

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145	Rotational quantum wake of pre-aligned molecules for femtosecond filamentation. , 2009, , .		0
146	Optical Parametric Amplification in the NIR in a gaseous medium by use of a hollow fibre. , 2009, , .		0
147	From single-cycle self-compressed filaments to isolated attosecond pulses in noble gases. Physical Review A, 2008, 77, .	1.0	59
148	Generation and control of extreme blueshifted continuum peaks in optical Kerr media. Physical Review A, 2008, 78, .	1.0	34
149	Filamentation in Kerr media from pulsed Bessel beams. Physical Review A, 2008, 77, .	1.0	131
150	Long plasma channels formed by axicon-focused filaments. Proceedings of SPIE, 2008, , .	0.8	4
151	Time-resolved refractive index and absorption mapping of light-plasma filaments in water. Optics Letters, 2008, 33, 86.	1.7	89
152	Femtosecond filamentation and pulse compression in the wake of molecular alignment. Optics Letters, 2008, 33, 2593.	1.7	57
153	Linear X-wave generation by means of cross-phase modulation in Kerr media. Optics Letters, 2008, 33, 3028.	1.7	2
154	Forward THz radiation emission by femtosecond filamentation in gases: theory and experiment. New Journal of Physics, 2008, 10, 013015.	1.2	178
155	Ultrashort laser pulse filamentation from spontaneous X Wave formation in air. Optics Express, 2008, 16, 1565.	1.7	70
156	Kerr-induced spontaneous Bessel beam formation in the regime of strong two-photon absorption. Optics Express, 2008, 16, 8213.	1.7	25
157	Spontaneous emergence of pulses with constant carrier-envelope phase in femtosecond filamentation. Optics Express, 2008, 16, 11103.	1.7	12
158	Spectrogram representation of pulse self compression by filamentation. Optics Express, 2008, 16, 17626.	1.7	44
159	Self-compression of optical laser pulses by filamentation. New Journal of Physics, 2008, 10, 025023.	1.2	66
160	Phase matching with pulsed Bessel beams for high-order harmonic generation. Physical Review A, 2008, 77, .	1.0	49
161	Femtosecond filamentation in turbulent air. Physical Review A, 2008, 78, .	1.0	53
162	Few-cycle laser-pulse collapse in Kerr media: The role of group-velocity dispersion and $\chi^{(3)}$ -wave formation. Physical Review A, 2008, 78, .	1.0	16

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163	Generation of long plasma channels in air by using axicon-generated bessel beams. , 2008, , .		0
164	Conical-emission and shock-front dynamics in femtosecond laser-pulse filamentation. Physical Review A, 2007, 76, .	1.0	32
165	Phase- and group-matched nonlinear interactions mediated by multiple filamentation in Kerr media. Physical Review A, 2007, 76, .	1.0	8
166	Pulse shortening, spatial mode cleaning, and intense terahertz generation by filamentation in xenon. Physical Review A, 2007, 76, .	1.0	22
167	Stimulated Raman X waves in ultrashort optical pulse filamentation. Optics Letters, 2007, 32, 184.	1.7	31
168	Spatio-temporal characterization of few-cycle pulses obtained by filamentation. Optics Express, 2007, 15, 5394.	1.7	118
169	Spatio-temporal reshaping and X Wave dynamics in optical filaments.. Optics Express, 2007, 15, 13077.	1.7	75
170	A simple method for determination of nonlinear propagation regimes in gases. Optics Express, 2007, 15, 15260.	1.7	20
171	Observation of Conical Waves in Focusing, Dispersive, and Dissipative Kerr Media. Physical Review Letters, 2007, 99, 223902.	2.9	56
172	Light-filament dynamics and the spatiotemporal instability of the Townes profile. Physical Review A, 2007, 76, .	1.0	30
173	Conical Forward THz Emission from Femtosecond-Laser-Beam Filamentation in Air. Physical Review Letters, 2007, 98, 235002.	2.9	444
174	Femtosecond filamentation in transparent media. Physics Reports, 2007, 441, 47-189.	10.3	2,462
175	Femtosecond Filamentation in Air. Springer Series in Chemical Physics, 2006, , 235-258.	0.2	4
176	Self-compression of ultra-short laser pulses down to one optical cycle by filamentation. Journal of Modern Optics, 2006, 53, 75-85.	0.6	154
177	Spatial mode cleaning by femtosecond filamentation in air. Optics Letters, 2006, 31, 2601.	1.7	83
178	Single attosecond pulses from high harmonics driven by self-compressed filaments. Optics Letters, 2006, 31, 3662.	1.7	57
179	Conical Emission, Pulse Splitting, and X-Wave Parametric Amplification in Nonlinear Dynamics of Ultrashort Light Pulses. Physical Review Letters, 2006, 96, 193901.	2.9	164
180	Femtosecond filamentation in air at low pressures. Part II: Laboratory experiments. Optics Communications, 2006, 261, 322-326.	1.0	32

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181	Femtosecond filamentation in air at low pressures: Part I: Theory and numerical simulations. Optics Communications, 2006, 259, 265-273.	1.0	59
182	Angular and chromatic dispersion in Kerr-driven conical emission. Optics Communications, 2006, 265, 672-677.	1.0	42
183	Measurement and calculation of nonlinear absorption associated with femtosecond filaments in water. Applied Physics B: Lasers and Optics, 2006, 84, 439-446.	1.1	62
184	Competition between phase-matching and stationarity in Kerr-driven optical pulse filamentation. Physical Review E, 2006, 74, 047603.	0.8	41
185	Near-field dynamics of ultrashort pulsed Bessel beams in media with Kerr nonlinearity. Physical Review E, 2006, 73, 056612.	0.8	48
186	Nonlinear X-wave formation by femtosecond filamentation in Kerr media. Physical Review E, 2006, 73, 016608.	0.8	113
187	5.1 fs pulses by filamentation " prospective of CEO-preserving self-compression to one optical cycle. , 2006, , .		0
188	Shocked-X-Wave Dynamics in Fs Laser Pulse Filamentation. , 2006, , .		0
189	Range of plasma filaments created in air by a multi-terawatt femtosecond laser. Optics Communications, 2005, 247, 171-180.	1.0	184
190	Enhanced harmonic conversion efficiency in the self-guided propagation of femtosecond ultraviolet laser pulses in argon. Applied Physics B: Lasers and Optics, 2005, 80, 211-214.	1.1	34
191	Amplification of Femtosecond Laser Filaments in Ti:Sapphire. Physical Review Letters, 2005, 95, 163901.	2.9	23
192	Near- and far-field evolution of laser pulse filaments in Kerr media. Physical Review E, 2005, 72, 037601.	0.8	49
193	High localization, focal depth and contrast by means of nonlinear Bessel beams. Optics Express, 2005, 13, 6160.	1.7	50
194	Pulse self-compression to the single-cycle limit by filamentation in a gas with a pressure gradient. Optics Letters, 2005, 30, 2657.	1.7	177
195	From X- to O-shaped spatiotemporal spectra of light filaments in water. Optics Letters, 2005, 30, 3398.	1.7	50
196	Filamentation and damage in fused silica induced by tightly focused femtosecond laser pulses. Physical Review B, 2005, 71, .	1.1	306
197	Conical Waves in the Frontier between Linear, Nonlinear and Quantum Optics. , 2005, , .		0
198	Nonlinear light propagation in air. , 2005, , .		0

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199	Absolute and convective nature of Raman instability in relativistic hot plasmas. <i>Physics of Plasmas</i> , 2004, 11, 4814-4823.	0.7	6
200	Long-range self-channeling of infrared laser pulses in air: a new propagation regime without ionization. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 379-382.	1.1	187
201	Generation of intense, carrier-envelope phase-locked few-cycle laser pulses through filamentation. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 673-677.	1.1	581
202	Organizing Multiple Femtosecond Filaments in Air. <i>Physical Review Letters</i> , 2004, 93, 035003.	2.9	197
203	Deterministic multiple filamentation in air: Theory. , 2004, , IThG34.		0
204	Self-guided propagation of fs UV laser pulses and efficient harmonic generation in low pressure Argon. , 2004, , .		0
205	Long range horizontal propagation of femtosecond self-channelled laser pulses in air. , 2004, , .		0
206	Deterministic multi-filamentation in air: Experimental. , 2004, , .		0
207	Light bullets from femtosecond filamentation. <i>European Physical Journal D</i> , 2003, 27, 159-167.	0.6	56
208	Filamentation length of powerful laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2003, 76, 789-792.	1.1	47
209	Propagation of twin laser pulses in air and concatenation of plasma strings produced by femtosecond infrared filaments. <i>Optics Communications</i> , 2003, 225, 177-192.	1.0	51
210	Dynamics of femtosecond filamentation from saturation of self-focusing laser pulses. <i>Physical Review A</i> , 2003, 68, .	1.0	57
211	Infrared femtosecond light filaments in air: simulations and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1117.	0.9	129
212	Femtosecond Laser-Induced Damage and Filamentary Propagation in Fused Silica. <i>Physical Review Letters</i> , 2002, 89, 186601.	2.9	399
213	Light Filaments in Air for Ultraviolet and Infrared Wavelengths. <i>Physical Review Letters</i> , 2002, 88, 135003.	2.9	102
214	Propagation of intense ultrashort laser pulses in a plasma filled capillary tube: Simulations and experiments. <i>Physics of Plasmas</i> , 2001, 8, 3445-3456.	0.7	69
215	Self-Guided Propagation of Ultrashort IR Laser Pulses in Fused Silica. <i>Physical Review Letters</i> , 2001, 87, 213902.	2.9	238
216	Gas-Induced Solitons. <i>Physical Review Letters</i> , 2001, 86, 1003-1006.	2.9	77

#	ARTICLE	IF	CITATIONS
217	Breakup and Fusion of Self-Guided Femtosecond Light Pulses in Air. Physical Review Letters, 2001, 86, 5470-5473.	2.9	197
218	Pushed global modes in weakly inhomogeneous subcritical flows. Physica D: Nonlinear Phenomena, 2001, 158, 129-150.	1.3	12
219	Absolute and convective nature of the modulational and Raman instabilities in the relativistic regime. Physics of Plasmas, 2001, 8, 3434-3442.	0.7	9
220	Propagating Pattern Selection and Causality Reconsidered. Physical Review Letters, 2000, 84, 1910-1913.	2.9	14
221	Modeling the filamentation of ultra-short pulses in ionizing media. Physics of Plasmas, 2000, 7, 193-209.	0.7	75
222	Nonlinear propagation of self-guided ultra-short pulses in ionized gases. Physics of Plasmas, 2000, 7, 210-230.	0.7	92
223	Primary and secondary nonlinear global instability. Physica D: Nonlinear Phenomena, 1999, 132, 428-456.	1.3	32
224	Against the wind. Physics of Fluids, 1999, 11, 2977-2983.	1.6	48
225	Fully nonlinear global modes in slowly varying flows. Physics of Fluids, 1999, 11, 3688-3703.	1.6	54
226	Steep nonlinear global modes in spatially developing media. Physics of Fluids, 1998, 10, 2433-2435.	1.6	60
227	Pattern Selection in the Presence of a Cross Flow. Physical Review Letters, 1997, 79, 2666-2669.	2.9	47
228	Absolute and convective instabilities, front velocities and global modes in nonlinear systems. Physica D: Nonlinear Phenomena, 1997, 108, 236-276.	1.3	77
229	Global Instability in Fully Nonlinear Systems. Physical Review Letters, 1996, 77, 4015-4018.	2.9	35