J-P Wolf

List of Publications by Year in descending order

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309 papers	13,358 citations	28274 55 h-index	27406 106 g-index
323 all docs	323 docs citations	323 times ranked	8683 citing authors

#	Article	IF	Citations
1	Organometal Halide Perovskite Solar Cell Materials Rationalized: Ultrafast Charge Generation, High and Microsecond-Long Balanced Mobilities, and Slow Recombination. Journal of the American Chemical Society, 2014, 136, 5189-5192.	13.7	1,106
2	Ultrashort filaments of light in weakly ionized, optically transparent media. Reports on Progress in Physics, 2007, 70, 1633-1713.	20.1	939
3	White-Light Filaments for Atmospheric Analysis. Science, 2003, 301, 61-64.	12.6	843
4	Physics and applications of atmospheric nonlinear optics and filamentation. Optics Express, 2008, 16, 466.	3.4	313
5	Time-resolved x-ray absorption spectroscopy with a water window high-harmonic source. Science, 2017, 355, 264-267.	12.6	292
6	Kilometer-range nonlinear propagation of femtosecond laser pulses. Physical Review E, 2004, 69, 036607.	2.1	260
7	Triggering and guiding megavolt discharges by use of laser-induced ionized filaments. Optics Letters, 2002, 27, 772.	3.3	255
8	Long-distance remote laser-induced breakdown spectroscopy using filamentation in air. Applied Physics Letters, 2004, 85, 3977-3979.	3.3	244
9	Higher-Order Kerr Terms Allow Ionization-Free Filamentation in Gases. Physical Review Letters, 2010, 104, 103903.	7.8	235
10	Probing the Transition from van der Waals to Metallic Mercury Clusters. Physical Review Letters, 1988, 60, 275-278.	7.8	228
11	Infrared extension of the supercontinuum generated by femtosecond terawatt laser pulses propagating in the atmosphere. Optics Letters, 2000, 25, 1397.	3.3	222
12	Laser-induced water condensation in air. Nature Photonics, 2010, 4, 451-456.	31.4	179
13	Multiple Filamentation of Terawatt Laser Pulses in Air. Physical Review Letters, 2004, 92, 225002.	7.8	178
14	Harmonic Nanocrystals for Biolabeling: A Survey of Optical Properties and Biocompatibility. ACS Nano, 2012, 6, 2542-2549.	14.6	174
15	Teramobile: A mobile femtosecond-terawatt laser and detection system. EPJ Applied Physics, 2002, 20, 183-190.	0.7	170
16	Femtosecond time-resolved laser-induced breakdown spectroscopy for detection and identification of bacteria: A comparison to the nanosecond regime. Journal of Applied Physics, 2006, 99, 084701.	2.5	161
17	Evolution of the electronic structure of lithium clusters between four and eight atoms. Journal of Chemical Physics, 1992, 96, 1793-1809.	3.0	160
18	Electric events synchronized with laser filaments in thunderclouds. Optics Express, 2008, 16, 5757.	3.4	152

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19	Spectral signature of native CN bonds for bacterium detection and identification using femtosecond laser-induced breakdown spectroscopy. Applied Physics Letters, 2006, 88, 063901.	3.3	145
20	Generation of 30 Î¼J single-cycle terahertz pulses at 100 Hz repetition rate by optical rectification. Optics Letters, 2008, 33, 2497.	3.3	141
21	Ultraintense light filaments transmitted through clouds. Applied Physics Letters, 2003, 83, 213-215.	3.3	139
22	Remote LIBS with ultrashort pulses: characteristics in picosecond and femtosecond regimes. Journal of Analytical Atomic Spectrometry, 2004, 19, 437-444.	3.0	127
23	Compression of 1.8â€‚Î¼m laser pulses to sub two optical cycles with bulk material. Applied Physics Letters, 2010, 96, .	3.3	126
24	Real-time recording of circadian liver gene expression in freely moving mice reveals the phase-setting behavior of hepatocyte clocks. Genes and Development, 2013, 27, 1526-1536.	5.9	126
25	Filamentation of femtosecond light pulses in the air: Turbulent cells versus long-range clusters. Physical Review E, 2004, 70, 046602.	2.1	102
26	Filament-induced remote surface ablation for long range laser-induced breakdown spectroscopy operation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1025-1033.	2.9	102
27	Quantum Control of Tightly Competitive Product Channels. Physical Review Letters, 2009, 102, 253001.	7.8	99
28	Polar Fe(IO3)3 nanocrystals as local probes for nonlinear microscopy. Applied Physics B: Lasers and Optics, 2007, 87, 399-403.	2.2	98
29	Discrimination of microbiological samples using femtosecond laser-induced breakdown spectroscopy. Applied Physics Letters, 2006, 89, 163903.	3.3	97
30	Remote detection and identification of biological aerosols using a femtosecond terawatt lidar system. Applied Physics B: Lasers and Optics, 2004, 78, 535-537.	2.2	95
31	Transition from Plasma-Driven to Kerr-Driven Laser Filamentation. Physical Review Letters, 2011, 106, 243902.	7.8	95
32	Size-Selective Depletion Spectroscopy of Predissociated States ofNa3. Physical Review Letters, 1986, 57, 1851-1854.	7.8	90
33	White-Light Nanosource with Directional Emission. Physical Review Letters, 2002, 89, 035002.	7.8	90
34	Sonographic probing of laser filaments in air. Applied Optics, 2003, 42, 7117.	2.1	89
35	Towards a supercontinuum-based infrared lidar. Applied Physics B: Lasers and Optics, 2003, 77, 357-359.	2.2	86
36	Multifilamentation transmission through fog. Physical Review E, 2005, 72, 026611.	2.1	85

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37	Supercontinuum emission and enhanced self-guiding of infrared femtosecond filaments sustained by third-harmonic generation in air. Physical Review E, 2005, 71, 016602.	2.1	80
38	Propagation of fs TW laser filaments in adverse atmospheric conditions. Applied Physics B: Lasers and Optics, 2005, 80, 785-789.	2.2	78
39	Enhanced Backward-Directed Multiphoton-Excited Fluorescence from Dielectric Microcavities. Physical Review Letters, 2000, 85, 54-57.	7.8	71
40	Backward supercontinuum emission from a filament generated by ultrashort laser pulses in air. Optics Letters, 2001, 26, 533.	3.3	71
41	Nanodoublers as deep imaging markers for multi-photon microscopy. Optics Express, 2009, 17, 15342.	3.4	71
42	Laser filaments generated and transmitted in highly turbulent air. Optics Letters, 2006, 31, 86.	3.3	69
43	Optical rogue wave statistics in laser filamentation. Optics Express, 2009, 17, 12070.	3.4	69
44	Field measurements suggest the mechanism of laser-assisted water condensation. Nature Communications, 2011, 2, 456.	12.8	67
45	White light generation over three octaves by femtosecond filament at 39ÂÂµm in argon. Optics Letters, 2012, 37, 3456.	3.3	67
46	Mobile source of high-energy single-cycle terahertz pulses. Applied Physics B: Lasers and Optics, 2010, 101, 11-14.	2.2	66
47	Competition between planar and nonplanar structure in alkali hexamers: The example ofLi6. Physical Review Letters, 1991, 67, 2638-2641.	7.8	65
48	Triggering and guiding of megavolt discharges by laser-induced filaments under rain conditions. Applied Physics Letters, 2004, 85, 5781-5783.	3.3	64
49	Propagation of laser filaments through an extended turbulent region. Applied Physics Letters, 2007, 91, 171106.	3.3	62
50	Generalized Miller FormulÃ¦. Optics Express, 2010, 18, 6613.	3.4	62
51	Free space laser telecommunication through fog. Optica, 2018, 5, 1338.	9.3	62
52	Efficient and stable pulsed laser operation of Ce:LiLuF4 around 308 nm. Optics Communications, 1998, 146, 163-166.	2.1	60
53	Short-pulse lasers for weather control. Reports on Progress in Physics, 2018, 81, 026001.	20.1	58
54	Spectroscopy of Na3. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1986, 3, 131-136.	1.0	57

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55	Improved laser triggering and guiding of meqavolt discharges with dual fs-ns pulses. Applied Physics Letters, 2006, 88, 021101.	3.3	57
56	How Shaped Light Discriminates Nearly Identical Biochromophores. Physical Review Letters, 2010, 105, 073003.	7.8	57
57	Production of ozone and nitrogen oxides by laser filamentation. Applied Physics Letters, 2010, 97, .	3.3	55
58	High resolution spectroscopy of small metal clusters. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1991, 19, 7-12.	1.0	54
59	Ensemble and Individual Characterization of the Nonlinear Optical Properties of ZnO and BaTiO₃ Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 15140-15146.	3.1	54
60	Influence of negative leader propagation on the triggering and guiding of high voltage discharges by laser filaments. Applied Physics B: Lasers and Optics, 2006, 82, 561-566.	2.2	53
61	Mid-infrared laser filamentation in molecular gases. Optics Letters, 2013, 38, 3194.	3.3	53
62	A flash-lamp based device for fluorescence detection and identification of individual pollen grains. Review of Scientific Instruments, 2013, 84, 033302.	1.3	52
63	Optimal control of filamentation in air. Applied Physics Letters, 2006, 89, 171117.	3.3	50
64	Angular Dependences of Third Harmonic Generation from Microdroplets. Physical Review Letters, 1997, 78, 2952-2955.	7.8	49
65	Filament-induced laser machining (FILM). Applied Physics B: Lasers and Optics, 2010, 100, 515-520.	2.2	49
66	Vibronic structure of theNa3ground state by stimulated emission spectroscopy. Physical Review Letters, 1989, 62, 2100-2103.	7.8	48
67	Characterization of urban aerosols using SEM-microscopy, X-ray analysis and Lidar measurements. Atmospheric Environment, 1998, 32, 2957-2967.	4.1	48
68	High-order harmonic source spanning up to the oxygen K-edge based on filamentation pulse compression. Optics Express, 2018, 26, 11834.	3.4	47
69	High-resolution one- and two-photon spectra of matrix-isolated anthracene. Chemical Physics, 1994, 181, 185-208.	1.9	46
70	High-Field Quantum Calculation Reveals Time-Dependent Negative Kerr Contribution. Physical Review Letters, 2013, 110, 043902.	7.8	46
71	Energy-time-entangled two-photon molecular absorption. Physical Review A, 2021, 103, .	2.5	46
72	Spectroscopy of vibrational ground-state levels of sodium molecule (Na3). The Journal of Physical Chemistry, 1987, 91, 2626-2630.	2.9	45

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73	Nano-FROG: Frequency resolved optical gating by a nanometric object. Optics Express, 2008, 16, 10405.	3.4	45
74	Vibronic structure of the Li3 ground state. Chemical Physics Letters, 1990, 175, 555-560.	2.6	44
75	Ultrafast gaseous â€œhalf-wave plateâ€• Optics Express, 2008, 16, 7564.	3.4	44
76	Characterization of the nonlinear optical properties of nanocrystals by Hyper Rayleigh Scattering. Journal of Nanobiotechnology, 2013, 11, S8.	9.1	44
77	High-speed, high-sensitivity aerosol fluorescence spectrum detection using a 32-anode photomultiplier tube detector. Review of Scientific Instruments, 2001, 72, 1831.	1.3	43
78	Stimulated emission spectroscopy of the ground state of Na3. Journal of Chemical Physics, 1989, 90, 4620-4622.	3.0	42
79	Nonlinear Correlation Spectroscopy (NLCS). Nano Letters, 2012, 12, 1668-1672.	9.1	42
80	First observation of an electronically excited state ofLi3. Physical Review Letters, 1989, 63, 1946-1949.	7.8	41
81	Electronic and vibronic structure ofLi4observed by depletion spectroscopy. Physical Review A, 1990, 42, 6954-6957.	2.5	41
82	Mechanism of hollow-core-fiber infrared-supercontinuum compression with bulk material. Physical Review A, 2010, 81, .	2.5	41
83	Individual bioaerosol particle discrimination by multi-photon excited fluorescence. Optics Express, 2011, 19, 24516.	3.4	41
84	Use of lidar measurements and numerical models in air pollution research. Journal of Geophysical Research, 1990, 95, 9879-9894.	3.3	40
85	Saturation of the filament density of ultrashort intense laser pulses in air. Applied Physics B: Lasers and Optics, 2010, 100, 77-84.	2.2	40
86	On negative higher-order Kerr effect and filamentation. Laser Physics, 2011, 21, 1319-1328.	1.2	40
87	A four-wavelength depolarization backscattering LIDAR for polar stratospheric cloud monitoring. Applied Physics B: Lasers and Optics, 1992, 55, 13-17.	2.2	39
88	Plasma formation dynamics within a water microdroplet on femtosecond time scales. Optics Letters, 2003, 28, 206.	3.3	38
89	A Puff of Air Sorts Bioaerosols for Pathogen Identification. Aerosol Science and Technology, 2004, 38, 598-602.	3.1	38
90	Stratospheric aerosol size distributions from multispectral lidar measurements at SodankylÃ during EASOE. Geophysical Research Letters, 1994, 21, 1311-1314.	4.0	37

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91	White-light filaments for multiparameter analysis of cloud microphysics. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 369.	2.1	37
92	Derivation of Mount Pinatubo stratospheric aerosol mean size distribution by means of a multiwavelength lidar. Applied Optics, 1994, 33, 5690.	2.1	35
93	Temperature measurement of sputtered metal dimers. Physical Review B, 1986, 33, 6792-6797.	3.2	34
94	Optimal dynamic discrimination of similar quantum systems with time series data. Journal of Chemical Physics, 2005, 122, 154103.	3.0	34
95	32TW atmospheric white-light laser. Applied Physics Letters, 2007, 90, 151106.	3.3	34
96	Highâ€Speed Tracking of Murine Cardiac Stem Cells by Harmonic Nanodoublers. Small, 2012, 8, 2752-2756.	10.0	34
97	Simultaneous Multiharmonic Imaging of Nanoparticles in Tissues for Increased Selectivity. ACS Photonics, 2015, 2, 1416-1422.	6.6	34
98	Femtosecond Soft-X-ray Absorption Spectroscopy of Liquids with a Water-Window High-Harmonic Source. Journal of Physical Chemistry Letters, 2020, 11, 1981-1988.	4.6	34
99	New UV tunable solid-state lasers for lidar applications. Applied Physics B: Lasers and Optics, 1995, 61, 117-120.	2.2	33
100	Femtosecond pump-probe experiments on trapped flavin: Optical control of dissociation. Journal of Chemical Physics, 2008, 128, 075103.	3.0	33
101	Cellular uptake and biocompatibility of bismuth ferrite harmonic advanced nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 815-824.	3.3	33
102	Amplification of intense light fields by nearly free electrons. Nature Physics, 2018, 14, 695-700.	16.7	33
103	Lifetimes and relaxation processes in electronically excited states of Na3. Chemical Physics Letters, 1988, 145, 232-236.	2.6	32
104	Backward-enhanced fluorescence from clusters of microspheres and particles of tryptophan. Applied Optics, 2002, 41, 2994.	2.1	32
105	Backward enhanced emission from multiphoton processes in aerosols. Applied Physics B: Lasers and Optics, 2002, 75, 145-152.	2.2	32
106	Multiobjective genetic approach for optimal control of photoinduced processes. Physical Review A, 2007, 76, .	2.5	32
107	Evanescent-Field-Induced Second Harmonic Generation by Noncentrosymmetric Nanoparticles. Optics Express, 2010, 18, 23218.	3.4	32
108	Nonlinear optical and magnetic properties of BiFeO3 harmonic nanoparticles. Journal of Applied Physics, 2014, 116, .	2.5	32

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109	Spectroscopy of the predissociated C state of Na3. Journal of Chemical Physics, 1989, 90, 843-851.	3.0	31
110	Simultaneous NO and NO_2 DIAL measurement using BBO crystals. Applied Optics, 1989, 28, 2052.	2.1	31
111	UVâ€“Supercontinuum generated by femtosecond pulse filamentation in air: Meter-range experiments versus numerical simulations. Applied Physics B: Lasers and Optics, 2006, 82, 341-345.	2.2	29
112	Ultraviolet-visible conical emission by multiple laser filaments. Optics Express, 2009, 17, 4726.	3.4	29
113	Dynamics of photon-induced degradation and fluorescence in riboflavin microparticles. Applied Physics B: Lasers and Optics, 2001, 72, 449-454.	2.2	28
114	Spectral dependence of purely-Kerr-driven filamentation in air and argon. Physical Review A, 2010, 82, .	2.5	28
115	Laser-induced plasma cloud interaction and ice multiplication under cirrus cloud conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10106-10110.	7.1	28
116	High repetition rate ultrashort laser cuts a path through fog. Applied Physics Letters, 2016, 109, .	3.3	28
117	Contribution of water droplets to charge release by laser filaments in air. Applied Physics Letters, 2009, 95, 091107.	3.3	27
118	Characterization of a MEMS-based pulse-shaping device inÂtheÂdeep ultraviolet. Applied Physics B: Lasers and Optics, 2009, 96, 757-761.	2.2	27
119	From higher-order Kerr nonlinearities to quantitative modeling of third and fifth harmonic generation in argon. Optics Letters, 2011, 36, 828.	3.3	26
120	The laser lightning rod project. EPJ Applied Physics, 2021, 93, 10504.	0.7	26
121	Carcinogenicity assays of wood dust and wood additives in rats exposed by long-term inhalation. International Archives of Occupational and Environmental Health, 2001, 74, 109-118.	2.3	25
122	Femtosecond laser pulses distinguish bacteria from background urban aerosols. Applied Physics Letters, 2005, 87, 063901.	3.3	25
123	Laser filament-induced aerosol formation. Atmospheric Chemistry and Physics, 2013, 13, 4593-4604.	4.9	25
124	Comparative study of nitric oxide immission in the cities of Lyon, Geneva, and Stuttgart using a mobile differential absorption LIDAR system. Applied Physics B, Photophysics and Laser Chemistry, 1992, 54, 89-94.	1.5	24
125	Implications of short time scale dynamics on long time processes. Structural Dynamics, 2017, 4, 061507.	2.3	24
126	Time-resolved observation of molecular pseudorotation in Na3. Chemical Physics Letters, 1993, 213, 554-558.	2.6	23

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127	A new transient SRS analysis method of aerosols and application to a nonlinear femtosecond lidar. Optics Communications, 1998, 152, 355-360.	2.1	23
128	Discriminating bacteria from other atmospheric particles using femtosecond molecular dynamics. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 300-306.	3.9	23
129	Laser Beams Take a Curve. Science, 2009, 324, 194-195.	12.6	23
130	White-light femtosecond Lidar at 100ÂTW power level. Applied Physics B: Lasers and Optics, 2014, 114, 319-325.	2.2	23
131	Plasmonic Tipless Pyramid Arrays for Cell Poration. Nano Letters, 2015, 15, 4461-4466.	9.1	23
132	Latitudinal distribution of stratospheric aerosols during the EASOE winter 1991/92. Geophysical Research Letters, 1994, 21, 1283-1286.	4.0	22
133	Resolution of strongly competitive product channels with optimal dynamic discrimination: Application to flavins. Journal of Chemical Physics, 2011, 134, 034511.	3.0	22
134	Ballistic trajectories of optical wave packets within microcavities. Physical Review A, 2001, 64, .	2.5	21
135	Sequential Proton Coupled Electron Transfer (PCET): Dynamics Observed over 8 Orders of Magnitude in Time. Journal of the American Chemical Society, 2016, 138, 4401-4407.	13.7	21
136	Photocontrolled Release of the Anticancer Drug Chlorambucil with Caged Harmonic Nanoparticles. Helvetica Chimica Acta, 2020, 103, e1900251.	1.6	21
137	Arbitrary-order nonlinear contribution to self-steepening. Optics Letters, 2010, 35, 2795.	3.3	20
138	Spectral phase, amplitude, and spatial modulation from ultraviolet to infrared with a reflective MEMS pulse shaper. Optics Express, 2011, 19, 7580.	3.4	20
139	Multiorder Nonlinear Mixing in Metal Oxide Nanoparticles. Nano Letters, 2020, 20, 8725-8732.	9.1	20
140	High-efficiency cluster laser vaporization sources based on Ti: sapphire lasers. Chemical Physics Letters, 1994, 224, 338-344.	2.6	19
141	Fourier-transform lidar. Optics Letters, 1995, 20, 2140.	3.3	19
142	Ray-tracing simulation of ionization-free filamentation. Applied Physics B: Lasers and Optics, 2004, 79, 947-951.	2.2	19
143	Dual-color co-filamentation in Argon. Optics Express, 2008, 16, 14115.	3.4	19
144	Ultraviolet and near-infrared femtosecond temporal pulse shaping with a new high-aspect-ratio one-dimensional micromirror array. Optics Letters, 2010, 35, 3102.	3.3	19

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145	Multijoule scaling of laser-induced condensation in air. Applied Physics Letters, 2011, 99, .	3.3	19
146	Remote electrical arc suppression by laser filamentation. Optics Express, 2015, 23, 28640.	3.4	19
147	Photoionization spectroscopy of small mercury clusters in the energy range from vacuum ultraviolet to soft x ray. Journal of Chemical Physics, 1995, 102, 680-689.	3.0	18
148	Measuring the electric charge in cloud droplets by use of second-harmonic generation. Optics Letters, 2005, 30, 759.	3.3	18
149	Spectral correlation and noise reduction in laser filaments. Applied Physics B: Lasers and Optics, 2007, 87, 1-4.	2.2	18
150	Identification of biological microparticles using ultrafast depletion spectroscopy. Faraday Discussions, 2008, 137, 37-49.	3.2	18
151	Modelling of HNO3-mediated laser-induced condensation: A parametric study. Journal of Chemical Physics, 2011, 135, 134703.	3.0	18
152	Influence of pulse duration, energy, and focusing on laser-assisted water condensation. Applied Physics Letters, 2011, 98, .	3.3	18
153	Laser-assisted water condensation in the atmosphere: a step towards modulating precipitation?. Journal Physics D: Applied Physics, 2012, 45, 293001.	2.8	18
154	Two-photon absorption and fluorescence in a spherical micro-cavity illuminated by using two laser pulses: numerical simulations. Optics Communications, 2002, 208, 371-375.	2.1	17
155	Non-linear photochemical pathways in laser-induced atmospheric aerosol formation. Scientific Reports, 2015, 5, 14978.	3.3	17
156	1-J white-light continuum from 100-TW laser pulses. Physical Review A, 2011, 83, .	2.5	16
157	Laser-induced condensation by ultrashort laser pulses at 248â€‰nm. Applied Physics Letters, 2013, 102, .	3.3	16
158	Laser Filamentation as a New Phase Transition Universality Class. Physical Review Letters, 2015, 114, 063903.	7.8	16
159	Multi-Order Investigation of the Nonlinear Susceptibility Tensors of Individual Nanoparticles. Scientific Reports, 2016, 6, 25415.	3.3	16
160	Deciphering output coupling mechanisms in spiral microcavities with femtosecond light bullets. Optics Letters, 2005, 30, 738.	3.3	15
161	White-light symmetrization by the interaction of multifilamenting beams. Physical Review A, 2009, 79, .	2.5	15
162	Coherent manipulation of free amino acids fluorescence. Physical Chemistry Chemical Physics, 2012, 14, 9317.	2.8	15

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163	Folate-modified silicon carbide nanoparticles as multiphoton imaging nanoprobes for cancer-cell-specific labeling. RSC Advances, 2017, 7, 27361-27369.	3.6	15
164	Laser noise compression by filamentation at 400 nm in argon. Optics Express, 2007, 15, 13295.	3.4	14
165	Progress towards lightning control using lasers. Journal of the European Optical Society-Rapid Publications, 0, 3, .	1.9	14
166	Laser vaporization of cirrus-like ice particles with secondary ice multiplication. Science Advances, 2016, 2, e1501912.	10.3	14
167	Conductivity and discharge guiding properties of mid-IR laser filaments. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	14
168	Bismuth ferrite dielectric nanoparticles excited at telecom wavelengths as multicolor sources by second, third, and fourth harmonic generation. Nanoscale, 2018, 10, 8146-8152.	5.6	14
169	Charge separation and carrier dynamics in donor-acceptor heterojunction photovoltaic systems. Structural Dynamics, 2017, 4, 061503.	2.3	13
170	Wavelength-Selective Nonlinear Imaging and Photo-Induced Cell Damage by Dielectric Harmonic Nanoparticles. ACS Nano, 2020, 14, 4087-4095.	14.6	13
171	Isotopic effects in pseudo-rotating homonuclear triatomic molecules. Application to Li3. Chemical Physics Letters, 1994, 225, 28-36.	2.6	12
172	Multiwavelength lidar observation of thin cirrus at the base of the Pinatubo stratospheric layer during the EASOE Campaign. Geophysical Research Letters, 1994, 21, 1339-1342.	4.0	12
173	Dual-wavelength diode-seeded Ti:sapphire laser for differential absorption lidar applications. Applied Optics, 1997, 36, 6864.	2.1	12
174	Three-dimensional analysis of urban aerosols by use of a combined lidar, scanning electron microscopy, and x-ray microanalysis. Applied Optics, 1998, 37, 2231.	2.1	12
175	Size dependence of nonlinear Mie scattering in microdroplets illuminated by ultrashort pulses. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1918.	2.1	12
176	3D-air quality model evaluation using the Lidar technique. Atmospheric Environment, 2002, 36, 5081-5095.	4.1	12
177	LIDAR mapping of ozone-episode dynamics in Paris and intercomparison with spot analyzers Supplementary material available at http://link.springer.de/journals/apb. Applied Physics B: Lasers and Optics, 2002, 74, 453-459.	2.2	12
178	Self-organized bundle of lasing filaments in dense media. Physical Review A, 2006, 73, .	2.5	12
179	Deep UV generation and direct DNA photo-interaction by harmonic nanoparticles in labelled samples. Nanoscale, 2014, 6, 2929-2936.	5.6	12
180	Temporal Airy pulses control cell poration. APL Photonics, 2016, 1, 046102.	5.7	12

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181	Molecular quantum wakes for clearing fog. Optics Express, 2020, 28, 11463.	3.4	12
182	Assessing the Dynamics of Organic Aerosols over the North Atlantic Ocean. Scientific Reports, 2017, 7, 45476.	3.3	11
183	Dynamics of the femtosecond laser-triggered spark gap. Optics Express, 2020, 28, 24599.	3.4	11
184	Broadly tunable KNbO3 OPOs pumped by Ti:sapphire lasers. Optics Communications, 1997, 142, 262-264.	2.1	10
185	Laser noise reduction in air. Applied Physics Letters, 2006, 88, 251112.	3.3	10
186	Multiple filamentation of non-uniformly focused ultrashort laser pulses. Applied Physics B: Lasers and Optics, 2009, 94, 243-247.	2.2	10
187	Design, simulation, fabrication, packaging, and characterization of a MEMS-based mirror array for femtosecond pulse-shaping in phase and amplitude. Review of Scientific Instruments, 2011, 82, 075106.	1.3	10
188	DAST/SiO_2 multilayer structure for efficient generation of 6ÂTHz quasi-single-cycle electromagnetic pulses. Optics Letters, 2012, 37, 2439.	3.3	10
189	Molecular alignment and filamentation: Comparison between weak- and strong-field models. Physical Review A, 2014, 90, .	2.5	10
190	Optimal laser-pulse energy partitioning for air ionization. Physical Review A, 2016, 94, .	2.5	10
191	Spooky spectroscopy. Nature Photonics, 2016, 10, 77-79.	31.4	10
192	Health state dependent multiphoton induced autofluorescence in human 3D in vitro lung cancer model. Scientific Reports, 2017, 7, 16233.	3.3	10
193	HV discharge acceleration by sequences of UV laser filaments with visible and near-infrared pulses. New Journal of Physics, 2017, 19, 123040.	2.9	10
194	An inexpensive nonlinear medium for intense ultrabroadband pulse characterization. Applied Physics B: Lasers and Optics, 2009, 97, 537-540.	2.2	9
195	Cooperative effect of ultraviolet and near-infrared beams in laser-induced condensation. Applied Physics Letters, 2013, 103, .	3.3	9
196	Nonlinear synthesis of complex laser waveforms at remote distances. Physical Review A, 2015, 91, .	2.5	9
197	Live cells assessment of opto-poration by a single femtosecond temporal Airy laser pulse. AIP Advances, 2018, 8, 125105.	1.3	9
198	Control of lasing filament arrays in nonlinear liquid media. Applied Physics B: Lasers and Optics, 2008, 90, 383-390.	2.2	8

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199	Cross compression of light bullets by two-color cofilamentation. Physical Review A, 2008, 78, .	2.5	8
200	Highâ€power potassiumâ€titanylâ€phosphate laser fibres for endovaporization of benign prostatic hyperplasia: how much do they deteriorate during the procedure?. BJU International, 2011, 107, 1938-1942.	2.5	8
201	Spin-Glass Model Governs Laser Multiple Filamentation. Physical Review Letters, 2015, 115, 033902.	7.8	8
202	Triggering filamentation using turbulence. Physical Review A, 2016, 94, .	2.5	8
203	Temperature measurements of liquid flat jets in vacuum. Structural Dynamics, 2022, 9, 014901.	2.3	8
204	Tunable no-tracking OPO-OPA tandem in the near-infrared pumped by a Ti:Sapphire laser. Applied Physics B: Lasers and Optics, 1996, 63, 199-201.	2.2	7
205	Four years of stratospheric aerosol measurements in the northern and southern hemispheres. Geophysical Research Letters, 1999, 26, 2199-2202.	4.0	7
206	Ultrashort filaments of light in weakly ionized, optically transparent media. Reports on Progress in Physics, 2008, 71, 109801.	20.1	7
207	Effects of atmospheric turbulence on remote optimal control experiments. Applied Physics Letters, 2008, 92, 041103.	3.3	7
208	Curved plasma channels: Kerr lens and Airy prism. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	7
209	Discriminating Biomolecules with Coherent Control Strategies. Chimia, 2011, 65, 346.	0.6	7
210	Direct amplitude shaping of high harmonics in the extreme ultraviolet. Optics Express, 2012, 20, 25843.	3.4	7
211	Ultrafast laser spectroscopy and control of atmospheric aerosols. Physical Chemistry Chemical Physics, 2012, 14, 9291.	2.8	7
212	Discriminability of tryptophan containing dipeptides using quantum control. Applied Physics B: Lasers and Optics, 2013, 111, 541-549.	2.2	7
213	Dual-scale turbulence in filamenting laser beams at high average power. Physical Review A, 2016, 94, .	2.5	7
214	Remote measurement of the aerosols size distribution by lidar. Journal of Aerosol Science, 1989, 20, 1213-1216.	3.8	6
215	3-D Monitoring of Air Pollution Using Mobile â€œAll-solid-stateâ€•Lidar System. Optics and Photonics News, 1995, 6, 27.	0.5	6
216	Reversibility of laser filamentation. Optics Express, 2014, 22, 21061.	3.4	6

#	Article	IF	Citations
217	Gas-Solid Phase Transition in Laser Multiple Filamentation. Physical Review Letters, 2017, 118, 133902.	7.8	6
218	Localized plasmonic fields of nanoantennas enhance second harmonic generation from two-dimensional molybdenum disulfide. MRS Communications, 2018, 8, 1029-1036.	1.8	6
219	Dispersion of the nonlinear susceptibility of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> from second-harmonic scattering spectroscopy. Physical Review B, 2020, 102, .	3.2	6
220	HV discharges triggered by dual- and triple-frequency laser filaments. Optics Express, 2019, 27, 11339.	3.4	6
221	Spatial Break-up of Femtosecond Laser Pulses in the Atmosphere. Physica Scripta, 2004, T107, 135.	2.5	5
222	LIDAR-Monitoring of the Air with Femtosecond Plasma Channels. Advances in Atomic, Molecular and Optical Physics, 2006, , 413-441.	2.3	5
223	Angular distribution of non-linear optical emission from spheroidal microparticles. Applied Physics B: Lasers and Optics, 2008, 91, 167-171.	2.2	5
224	Filament-induced birefringence in Argon. Laser Physics, 2009, 19, 336-341.	1.2	5
225	High aspect ratio micromirror array with two degrees of freedom for femtosecond pulse shaping. Proceedings of SPIE, 2010, , .	0.8	5
226	Discriminating Bio-aerosols from Non-Bio-aerosols in Real-Time by Pump-Probe Spectroscopy. Scientific Reports, 2016, 6, 33157.	3.3	5
227	Strong field transient manipulation of electronic states and bands. Structural Dynamics, 2017, 4, 061505.	2.3	5
228	Laser induced aerosol formation mediated by resonant excitation of volatile organic compounds. Optica, 2021, 8, 1256.	9.3	5
229	Maximizing energy deposition by shaping few-cycle laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 135402.	1.5	4
230	Real-time and spatially resolved assessment of pathogens in crops for site-specific pesticide reduction strategies. BIO Web of Conferences, 2019, 15, 01019.	0.2	4
231	Laser-diode injection seeding of a flashlamp-pumped Q-switched Ti:Al2O3 laser oscillator. Optics Communications, 1996, 132, 263-268.	2.1	3
232	Second-harmonic generation in a microradius LiNbO_3 cylinder with a quasi-elliptical cross section. Optics Letters, 1999, 24, 394.	3.3	3
233	On Lightning Control Using Lasers. Springer Series in Chemical Physics, 2010, , 109-122.	0.2	3
234	Tailoring single-cycle electromagnetic pulses in the 2â€“9 THz frequency range using DAST/SiO_2 multilayer structures pumped at Ti:sapphire wavelength. Optics Express, 2014, 22, 21618.	3.4	3

#	Article	IF	Citations
235	Real-time monitoring of bacterial and organic pollution in a water stream by fluorescence depletion spectroscopy. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	3
236	Time-resolved monitoring of polycyclic aromatic hydrocarbons adsorbed on atmospheric particles. Environmental Science and Pollution Research, 2017, 24, 19517-19523.	5.3	3
237	Ab initio calculations of laser-atom interactions revealing harmonics feedback during macroscopic propagation. Physical Review A, 2019, 99, .	2.5	3
238	Optical and Dynamic Properties of Metal Clusters. Springer Series in Materials Science, 1988, , 64-95.	0.6	3
239	Air pollution mapping using all solid-state LidarÂsystems. Comptes Rendus Physique, 2001, 2, 923-928.	0.1	2
240	Large linear micromirror array for UV femtosecond laser pulse shaping. , 2008, , .		2
241	Shaping light with MOEMS. , 2011, , .		2
242	Nonlinear optical properties of silicon carbide (SiC) nanoparticles by carbothermal reduction. , 2016, , .		2
243	Nonlinear THz spectroscopy and simulation of gated graphene. Journal of Physics Communications, 2018, 2, 065016.	1.2	2
244	Ultrafast pulse shaping modulates perceived visual brightness in living animals. Science Advances, 2021, 7, .	10.3	2
245	Analysis of the tropospheric ozone dynamics by Lidar. European Physical Journal Special Topics, 1994, 04, C4-643-C4-646.	0.2	2
246	Possible nitric acid coating formation over Pinatubo aerosols inferred with a microphysical code: A case study during EASOE. Geophysical Research Letters, 1994, 21, 1435-1438.	4.0	1
247	Title is missing!. Journal of Atmospheric Chemistry, 1999, 32, 165-181.	3.2	1
248	Frequency agile infrared lidar based on a nontracking KNbO_3 optical parametric oscillator. Applied Optics, 2000, 39, 3620.	2.1	1
249	DIAL Revisited: BELINDA and White-Light Femtosecond Lidar. , 2005, , 399-443.		1
250	Linear micromirror array for broadband femtosecond pulse shaping in phase and amplitude. Proceedings of SPIE, 2009, , .	0.8	1
251	Publisherâ€™s Note: Spectral dependence of purely-Kerr-driven filamentation in air and argon [Phys. Rev. A82, 033826 (2010)]. Physical Review A, 2010, 82, .	2.5	1
252	Coherent Quantum Control in Biological Systems. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 183-201.	0.3	1

#	Article	IF	Citations
253	Harmonic Nanoparticles for Regenerative Research. Journal of Visualized Experiments, 2014, , .	0.3	1
254	Biosensing Instrumentation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 131-152.	0.3	1
255	Shockwave-assisted laser filament conductivity. Applied Physics Letters, 2017, 111, 211103.	3.3	1
256	Linearity of charge measurement in laser filaments. Optics Express, 2017, 25, 16517.	3.4	1
257	OncoCilAirâ„¢: A physiological in vitro platform to assess the efficacy and the toxicity of lung cancer therapeutics. Toxicology Letters, 2018, 295, S122.	0.8	1
258	Modifications of filament spectra by shaped octave-spanning laser pulses. Physical Review A, 2018, 98, .	2.5	1
259	Laser-Induced Breakdown Spectroscopy analysis of Bacteria: What Femtosecond Lasers Make Possible. Springer Series in Chemical Physics, 2007, , 193-195.	0.2	1
260	Probing Air Pollutants by Differential Absorption LIDAR. , 1992, , 85-88.		1
261	Polar Stratospheric Cloud Measurements by Multispectral Lidar at SodankylÃ in Winter 1994/95. , 1997, , 513-516.		1
262	SIZE DEPENDENCE OF SODIUM AND LITHIUM CLUSTERS IONIZATION POTENTIALS. European Physical Journal Special Topics, 1991, 01, C7-509-C7-512.	0.2	1
263	‹title›Monitoring of urban aerosols using a combined lidar/SEM method‹/title›. , 1997, 3104, 278.		0
264	Sonography: a new method to measure laser filaments in air. , 2003, , .		0
265	Spectroscopie pompe-sonde pour la dÃ©tection de bioaÃ©rosols. European Physical Journal Special Topics, 2006, 135, 185-186.	0.2	0
266	Femtosecond pump-repump depletion to sort biological particles from background urban particles. , 2006, , .		0
267	Propagation of femtosecond filaments in atmospheric conditions. , 2007, , .		0
268	TW lasers in air: ultra-high powers and optimal control strategies. Proceedings of SPIE, 2007, , .	0.8	0
269	Higher-order Kerr effect in ultrashort laser pulse propagation and laser filamentation. , 2011, , .		0
270	Optimal Dynamic Discrimination in Tryptophan-Containing Dipeptides. EPJ Web of Conferences, 2013, 41, 07012.	0.3	0

#	Article	IF	Citations
271	Coherent Control of Biomolecules and Imaging Using Nanodoublers. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 251-269.	0.3	0
272	Supercontinuum Generation by Mid-IR femtosecond Filaments in Molecular Gases. , 2013, , .		0
273	Label free optimal dynamic discrimination of biological macromolecules. Proceedings of SPIE, 2013, , .	0.8	0
274	Harmonic nanoparticles for nonlinar bio-imaging and detection. Proceedings of SPIE, 2013, , .	0.8	0
275	Laser Filament Induced Water Condensation. EPJ Web of Conferences, 2013, 41, 12008.	0.3	0
276	Higher-order Kerr effects improve quantitative modelling of harmonics generation and laser filamentation. EPJ Web of Conferences, 2013, 41, 12007.	0.3	0
277	Laser Filament-induced Ice Multiplication under Cirrus Cloud Conditions. , 2014, , .		0
278	Assessment of cytotoxicity and oxidative effect of Bismuth Ferrite (BFO) harmonic nanoparticles for localized DNA photo-interaction. , 2014, , .		0
279	Ultrafast Nano-Biophotonics. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 191-212.	0.3	0
280	Chapter 5 Quantum Aspects of Biophotonics. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 97-116.	0.3	0
281	Tracking chemical reaction using softâ€“Xâ€“Ray absorption spectroscopy with a table-top water-window X-ray source. , 2021, , .		0
282	CLEOÂ®/Europe-EQEC 2021, One Page Summary Template (Multi-order Nonlinear Mixing in Dielectric) Tj ETQq0 0 0 rgBT /Overlock 10 T		0
283	Laser lightning rod and artificial fog dissipation. , 2021, , .		0
284	Vers une dÃ©tection optique sÃ©lective des agents biologiques et des rÃ©sidus de combustion d'hydrocarbures. European Physical Journal Special Topics, 2000, 10, Pr8-215.	0.2	0
285	Lidar infrarouge basÃ© sur un oscillateur paramÃ©trique optique pour la dÃ©tection des aÃ©rosols. European Physical Journal Special Topics, 2000, 10, Pr8-157.	0.2	0
286	Second harmonic generation in a LiNbO3crystal fiber. European Physical Journal Special Topics, 2000, 10, Pr8-113.	0.2	0
287	GÃ©nÃ©ration de continuum dans une microcavitÃ©. European Physical Journal Special Topics, 2002, 12, 273-274.	0.2	0
288	RÃ©tro-Ã©mission du continuum gÃ©nÃ©rÃ© dans un filament induit par des impulsions ultra-intenses. European Physical Journal Special Topics, 2002, 12, 383-384.	0.2	0

#	Article	IF	Citations
289	Laser femtoseconde, filamentation, nuage et orage. European Physical Journal Special Topics, 2005, 127, 205-210.	0.2	0
290	Interfering Lasing Filaments in Dense Absorbing Media. , 2006, , .		0
291	Interfering Lasing Filaments in Dense Absorbing Media. Springer Series in Chemical Physics, 2007, , 77-79.	0.2	0
292	Femtosecond Lidar and Coherent Control. , 2007, , .		0
293	Filament induced electric events in thunderstorms. , 2008, , .		0
294	Deep UV Strategy for Discriminating Biomolecules. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 393-394.	0.3	0
295	Optical Kerr effect in the strong field regime. , 2013, , .		0
296	Spectroscopy of Na3 and Experiments on Size-Selected Metal Cluster Ions. , 1987, , 253-261.		0
297	REMOTE SENSING OF AIR POLLUTION BY LIDAR. European Physical Journal Special Topics, 1991, 01, C7-13-C7-16.	0.2	0
298	New solid state lasers for hydrocarbons detection by LIDAR. European Physical Journal Special Topics, 1994, 04, C4-683-C4-686.	0.2	0
299	A Fourier Transform Lidar. , 1997, , 463-466.		0
300	Time-resolved X-ray absorption spectroscopy with a water-window high-harmonic source. , 2017, , .		0
301	High-flux Soft X-ray Source for Time-resolved Probing of Magnetization Dynamics in Rare-earth Ferromagnets. , 2018, , .		0
302	Cell Poration of Fixed and Live Cells by Phase Shaped Femtosecond Pulses. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 399-400.	0.3	0
303	Detection of Trace Amounts of Volatile Organic Compounds via Laser-Induced Condensation. , 2018, , .		0
304	Dielectric Nanoparticles Excited at Telecom Wavelengths as Multiharmonic Multicolor Sources. , 2018, , .		0
305	Multi-Wavelength Laser Control of High-Voltage Discharges: From the Laboratory to SÃntis Mountain. , 2019, , .		0
306	Molecular Quantum Wakes for Clearing Fog. , 2020, , .		0

#	Article	IF	Citations
307	Femtosecond softâ€“Xâ€“Ray absorption spectroscopy of liquids with a water-window high-harmonic source. , 2020, , .		0
308	Biological systems: Applications and perspectives. , 2007, , 733-828.		0
309	LASER SPECTROSCOPY OF METAL CLUSTERS. Journal De Physique Colloque, 1987, 48, C7-591-C7-593.	0.2	0