Andrius Baltuska

List of Publications by Year
in descending order

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314 papers	14,705 citations	34105 52 h-index	19190 118 g-index
321 all docs	321 docs citations	321 times ranked	6381 citing authors

#	Article	IF	Citations
1	Bright Coherent Ultrahigh Harmonics in the keV X-ray Regime from Mid-Infrared Femtosecond Lasers. Science, 2012, 336, 1287-1291.	12.6	1,537
2	Attosecond control of electronic processes by intense light fields. Nature, 2003, 421, 611-615.	27.8	1,493
3	Atomic transient recorder. Nature, 2004, 427, 817-821.	27.8	1,271
4	Attosecond spectroscopy in condensed matter. Nature, 2007, 449, 1029-1032.	27.8	992
5	Direct Measurement of Light Waves. Science, 2004, 305, 1267-1269.	12.6	596
6	Controlling the Carrier-Envelope Phase of Ultrashort Light Pulses with Optical Parametric Amplifiers. Physical Review Letters, 2002, 88, 133901.	7.8	467
7	Measurement of the Phase of Few-Cycle Laser Pulses. Physical Review Letters, 2003, 91, 253004.	7.8	447
8	90 GW peak power few-cycle mid-infrared pulses from an optical parametric amplifier. Optics Letters, 2011, 36, 2755.	3.3	372
9	Visible pulse compression to 4 fs by optical parametric amplification and programmable dispersion control. Optics Letters, 2002, 27, 306.	3.3	338
10	Optical pulse compression to 5 fs at a 1-MHz repetition rate. Optics Letters, 1997, 22, 102.	3.3	296
11	Parametric amplification of few-cycle carrier-envelope phase-stable pulses at 21 Î¼m. Optics Letters, 2006, 31, 1103.	3.3	233
12	Autocorrelation measurement of 6-fs pulses based on the two-photon-induced photocurrent in a GaAsP photodiode. Optics Letters, 1997, 22, 1344.	3.3	214
13	Observation of extremely efficient terahertz generation from mid-infrared two-color laser filaments. Nature Communications, 2020, 11, 292.	12.8	186
14	Phase-controlled amplification of few-cycle laser pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 972-989.	2.9	178
15	High-brightness table-top hard X-ray source driven by sub-100-femtosecond mid-infrared pulses. Nature Photonics, 2014, 8, 927-930.	31.4	175
16	Multimillijoule chirped parametric amplification of few-cycle pulses. Optics Letters, 2005, 30, 567.	3.3	166
17	Fast volumetric calcium imaging across multiple cortical layers using sculpted light. Nature Methods, 2016, 13, 1021-1028.	19.0	158
18	Free-space nitrogen gas laser driven by a femtosecond filament. Physical Review A, 2012, 86, .	2.5	148

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19	Gouy Phase Shift for Few-Cycle Laser Pulses. Physical Review Letters, 2004, 92, 113001.	7.8	140
20	Attosecond-Recollision-Controlled Selective Fragmentation of Polyatomic Molecules. Physical Review Letters, 2012, 109, 243001.	7.8	136
21	Attosecond Probe of Valence-Electron Wave Packets by Subcycle Sculpted Laser Fields. Physical Review Letters, 2012, 108, 193004.	7.8	131
22	Soliton-based pump-seed synchronization for few-cycle OPCPA. Optics Express, 2005, 13, 6550.	3.4	129
23	Generation of carrier-envelope-phase-stable 2-cycle 740-Î¼J pulses at 21-Î¼m carrier wavelength. Optics Express, 2009, 17, 62.	3.4	126
24	Fewâ€opticalâ€cycle light pulses with passive carrierâ€envelope phase stabilization. Laser and Photonics Reviews, 2011, 5, 323-351.	8.7	121
25	Near- and Extended-Edge X-Ray-Absorption Fine-Structure Spectroscopy Using Ultrafast Coherent High-Order Harmonic Supercontinua. Physical Review Letters, 2018, 120, 093002.	7.8	121
26	Second-harmonic generation frequency-resolved optical gating in the single-cycle regime. IEEE Journal of Quantum Electronics, 1999, 35, 459-478.	1.9	115
27	Amplitude and phase characterization of 45-fs pulses by frequency-resolved optical gating. Optics Letters, 1998, 23, 1474.	3.3	104
28	Hydrated-electron population dynamics. Chemical Physics Letters, 2004, 389, 171-175.	2.6	101
29	Subcycle Control of Electron-Electron Correlation in Double Ionization. Physical Review Letters, 2014, 112, 193002.	7.8	97
30	Ultrafast Librational Dynamics of the Hydrated Electron. Physical Review Letters, 1998, 80, 4645-4648.	7.8	89
31	Self-compression of millijoule 15 Î¼m pulses. Optics Letters, 2009, 34, 2498.	3.3	89
32	High energy and average power femtosecond laser for driving mid-infrared optical parametric amplifiers. Optics Letters, 2013, 38, 2746.	3.3	84
33	Highly efficient scalable monolithic semiconductor terahertz pulse source. Optica, 2016, 3, 1075.	9.3	84
34	Observation of few-cycle, strong-field phenomena in surface plasmon fields. Optics Express, 2010, 18, 24206.	3.4	81
35	Self-referencing of the carrier-envelope slip in a 6-fs visible parametric amplifier. Optics Letters, 2002, 27, 1241.	3.3	78
36	Early-Time Dynamics of the Photoexcited Hydrated Electron. Journal of Physical Chemistry A, 1999, 103, 10065-10082.	2.5	73

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37	Internal Momentum State Mapping Using High Harmonic Radiation. Physical Review Letters, 2008, 101, 033901.	7.8	73
38	Subterawatt few-cycle mid-infrared pulses from a single filament. Optica, 2016, 3, 299.	9.3	71
39	Optical Detection of Attosecond Ionization Induced by a Few-Cycle Laser Field in a Transparent Dielectric Material. Physical Review Letters, 2011, 106, 147401.	7.8	70
40	Adaptive shaping of two-cycle visible pulses using a flexible mirror. Applied Physics B: Lasers and Optics, 2002, 75, 427-443.	2.2	69
41	White light generation over three octaves by femtosecond filament at 39ÂÂµm in argon. Optics Letters, 2012, 37, 3456.	3.3	67
42	Hollow-core-waveguide compression of multi-millijoule CEP-stable 32â€‰â€‰Î¼m pulses. Optica, 2016, 3, 1308.	9.3	67
43	The primary events in the photoactivation of yellow protein. Chemical Physics Letters, 1997, 270, 263-266.	2.6	66
44	Multi-mJ, 200-fs, cw-pumped, cryogenically cooled, Yb,Na:CaF_2 amplifier. Optics Letters, 2009, 34, 2075.	3.3	66
45	Selective Control over Fragmentation Reactions in Polyatomic Molecules Using Impulsive Laser Alignment. Physical Review Letters, 2014, 112, 163003.	7.8	66
46	Strong-field plasmonic electron acceleration with few-cycle, phase-stabilized laser pulses. Applied Physics Letters, 2011, 98, 111116.	3.3	64
47	Parametric amplification of 100 fs mid-infrared pulses in ZnGeP_2 driven by a Ho:YAG chirped-pulse amplifier. Optics Letters, 2017, 42, 683.	3.3	63
48	Time-Resolved Absorption Difference Spectroscopy of the LH-1 Antenna of Rhodopseudomonas viridis. Journal of Physical Chemistry A, 1998, 102, 4360-4371.	2.5	59
49	Remotely pumped stimulated emission at 337 nm in atmospheric nitrogen. Physical Review A, 2013, 88, .	2.5	58
50	Broadband mid-infrared pulses from potassium titanyl arsenate/zinc germanium phosphate optical parametric amplifier pumped by Tm, Ho-fiber-seeded Ho:YAG chirped-pulse amplifier. Optics Letters, 2016, 41, 930.	3.3	57
51	Laser-sub-cycle two-dimensional electron-momentum mapping using orthogonal two-color fields. Physical Review A, 2014, 90, .	2.5	55
52	Mid-infrared laser filamentation in molecular gases. Optics Letters, 2013, 38, 3194.	3.3	53
53	High Energy Proton Ejection from Hydrocarbon Molecules Driven by Highly Efficient Field Ionization. Physical Review Letters, 2011, 106, 163001.	7.8	52
54	Mid-infrared-to-mid-ultraviolet supercontinuum enhanced by third-to-fifteenth odd harmonics. Optics Letters, 2015, 40, 2068.	3.3	52

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55	Laser wakefield acceleration with mid-IR laser pulses. Optics Letters, 2018, 43, 1131.	3.3	52
56	Third- and fifth-harmonic generation by mid-infrared ultrashort pulses: beyond the fifth-order nonlinearity. Optics Letters, 2012, 37, 2268.	3.3	51
57	Stimulated Raman gas sensing by backward UV lasing from a femtosecond filament. Optics Letters, 2015, 40, 2469.	3.3	51
58	Sub-5 fs pulse generation from a noncollinear optical parametric amplifier. Measurement Science and Technology, 2002, 13, 1671-1682.	2.6	48
59	High-energy terahertz pulses from semiconductors pumped beyond the three-photon absorption edge. Optics Express, 2016, 24, 23872.	3.4	48
60	Extending the supercontinuum spectrum down to 200â€‰nm with few-cycle pulses. New Journal of Physics, 2006, 8, 177-177.	2.9	46
61	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	3.4	45
62	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. Optica, 2020, 7, 1349.	9.3	45
63	Shaping of picosecond pulses for pumping optical parametric amplification. Applied Physics B: Lasers and Optics, 2007, 87, 79-84.	2.2	44
64	Scalable Yb-MOPA-driven carrier-envelope phase-stable few-cycle parametric amplifier at 15 Î¼m. Optics Letters, 2009, 34, 118.	3.3	43
65	Disentangling Intracycle Interferences in Photoelectron Momentum Distributions Using Orthogonal Two-Color Laser Fields. Physical Review Letters, 2017, 119, 243201.	7.8	43
66	Optical Detection of Tunneling Ionization. Physical Review Letters, 2010, 104, 163904.	7.8	42
67	Optical attosecond mapping by polarization selective detection. Physical Review A, 2007, 76, .	2.5	41
68	Electronic Predetermination of Ethylene Fragmentation Dynamics. Physical Review X, 2014, 4, .	8.9	41
69	70 mJ nonlinear compression and scaling route for an Yb amplifier using large-core hollow fibers. Optics Letters, 2021, 46, 896.	3.3	40
70	Spectroscopy and lasing of cryogenically cooled Yb,â€‰Na:CaF2. Applied Physics B: Lasers and Optics, 2009, 97, 339-350.	2.2	39
71	Coincidence spectroscopy of high-lying Rydberg states produced in strong laser fields. Physical Review A, 2016, 94, .	2.5	39
72	Seeding of an eleven femtosecond optical parametric chirped pulse amplifier and its Nd/sup 3+/ picosecond pump laser from a single broadband Ti:Sapphire oscillator. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 173-180.	2.9	37

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73	Angular encoding in attosecond recollision. New Journal of Physics, 2008, 10, 025029.	2.9	37
74	Self-compression of high-peak-power mid-infrared pulses in anomalously dispersive air. Optica, 2017, 4, 1405.	9.3	37
75	Theory of a filament initiated nitrogen laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094016.	1.5	36
76	Angular structure formation in single-pass optical parametric generators pumped by intersecting beams. Optics Letters, 1995, 20, 2174.	3.3	35
77	Carrier-envelope-phase dependence of asymmetric C D bond breaking in C2D2 in an intense few-cycle laser field. Chemical Physics Letters, 2014, 595-596, 61-66.	2.6	35
78	Ultrafast-laser-induced backward stimulated Raman scattering for tracing atmospheric gases. Optics Express, 2012, 20, 18784.	3.4	34
79	Spectral narrowing of chirp-free light pulses in anomalously dispersive, highly nonlinear photonic-crystal fibers. Optics Express, 2008, 16, 2502.	3.4	33
80	Wave Packet Dynamics in Ultrafast Spectroscopy of the Hydrated Electron. Journal of Physical Chemistry A, 1998, 102, 4172-4176.	2.5	32
81	Frequency-resolved pumpâ€“probe characterization of femtosecond infrared pulses. Optics Letters, 2002, 27, 1171.	3.3	30
82	Effect of Laser Parameters on Ultrafast Hydrogen Migration in Methanol Studied by Coincidence Momentum Imaging. Journal of Physical Chemistry A, 2012, 116, 2686-2690.	2.5	29
83	Post-filament self-trapping of ultrashort laser pulses. Optics Letters, 2014, 39, 4659.	3.3	29
84	Solitary beam propagation in periodic layered Kerr media enables high-efficiency pulse compression and mode self-cleaning. Light: Science and Applications, 2021, 10, 53.	16.6	29
85	Laser-subcycle control of sequential double-ionization dynamics of helium. Physical Review A, 2016, 93, .	2.5	28
86	Carrier envelope phase stabilization of a Yb:KGW laser amplifier. Optics Letters, 2011, 36, 3242.	3.3	27
87	Time-and-energy-resolved measurement of Auger cascades following Kr 3d excitation by attosecond pulses. New Journal of Physics, 2011, 13, 113003.	2.9	27
88	Localizing high-lying Rydberg wave packets with two-color laser fields. Physical Review A, 2017, 96, .	2.5	27
89	Pulse fidelity control in a 20-Î¼J sub-200-fs monolithic Yb-fiber amplifier. Laser Physics, 2011, 21, 1329-1335.	1.2	26
90	Duration of an intense laser pulse can determine the breakage of multiple chemical bonds. Scientific Reports, 2015, 5, 12877.	3.3	26

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91	Highly efficient THz generation by optical rectification of mid-IR pulses in DAST. APL Photonics, 2021, 6, 046105.	5.7	26
92	Path-selective investigation of intense laser-pulse-induced fragmentation dynamics in triply charged 1,3-butadiene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 085603.	1.5	25
93	Probing the influence of the Coulomb field on atomic ionization by sculpted two-color laser fields. New Journal of Physics, 2013, 15, 043050.	2.9	24
94	Role of proton dynamics in efficient photoionization of hydrocarbon molecules. Physical Review A, 2014, 89, .	2.5	24
95	Frustrated double ionization of argon atoms in strong laser fields. Physical Review Research, 2020, 2, .	3.6	24
96	Soliton self-frequency shift of 6-fs pulses in photonic-crystal fibers. Applied Physics B: Lasers and Optics, 2005, 81, 585-588.	2.2	23
97	Two-proton migration in 1,3-butadiene in intense laser fields. Physical Chemistry Chemical Physics, 2010, 12, 12939.	2.8	23
98	Strong laser-pulse-driven ionization and Coulomb explosion of hydrocarbon molecules. Physical Review A, 2012, 86, .	2.5	23
99	Filamentation of mid-IR pulses in ambient air in the vicinity of molecular resonances. Optics Letters, 2018, 43, 2185.	3.3	23
100	Hydrogen migration and Câ€“C bond breaking in 1,3-butadiene in intense laser fields studied by coincidence momentum imaging. Chemical Physics Letters, 2010, 484, 119-123.	2.6	22
101	High-fidelity, 160 fs, 5 Î¼J pulses from an integrated Yb-fiber laser system with a fiber stretcher matching a simple grating compressor. Optics Letters, 2012, 37, 927.	3.3	22
102	Subterawatt femtosecond pulses in the mid-infrared range: new spatiotemporal dynamics of high-power electromagnetic fields. Physics-Uspekhi, 2015, 58, 89-94.	2.2	22
103	110-mJ 225-fs cryogenically cooled Yb:CaF_2 multipass amplifier. Optics Express, 2016, 24, 28915.	3.4	22
104	Angle-resolved multioctave supercontinua from mid-infrared laser filaments. Optics Letters, 2016, 41, 3479.	3.3	22
105	Millijoule femtosecond pulses at 1937 nm from a diode-pumped ring cavity Tm:YAP regenerative amplifier. Optics Express, 2018, 26, 29460.	3.4	22
106	X-SEA-F-SPIDER characterization of over octave spanning pulses in the infrared range. Optics Express, 2016, 24, 12713.	3.4	21
107	Fragmentation of long-lived hydrocarbons after strong field ionization. Physical Review A, 2016, 93, .	2.5	21
108	Enhanced ionisation of polyatomic molecules in intense laser pulses is due to energy upshift and field coupling of multiple orbitals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 125601.	1.5	21

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109	Nonlinear performance of asymmetric coupler based on dual-core photonic crystal fiber: Towards sub-nanojoule solitonic ultrafast all-optical switching. Optical Fiber Technology, 2018, 42, 39-49.	2.7	21
110	Relativistic Interaction of Long-Wavelength Ultrashort Laser Pulses with Nanowires. Physical Review X, 2019, 9, .	8.9	19
111	Wavelength scaling of ultrafast demagnetization in Co/Pt multilayers. Physical Review B, 2020, 101, .	3.2	19
112	Hollow-fiber compression of 6 mJ pulses from a continuous-wave diode-pumped single-stage Yb,Na:CaF_2 chirped pulse amplifier. Optics Letters, 2011, 36, 1914.	3.3	18
113	Optical and THz signatures of sub-cycle tunneling dynamics. Chemical Physics, 2013, 414, 92-99.	1.9	18
114	Two-pulse control over double ionization pathways in CO2. Journal of Chemical Physics, 2016, 144, 024306.	3.0	18
115	Ultrafast multi-wavelength switch based on dynamics of spectrally-shifted solitons in aÂdualâ€‘core photonic crystal fiber. Optics Express, 2014, 22, 31092.	3.4	17
116	Chirp-controlled filamentation and formation of light bullets in the mid-IR. Optics Letters, 2019, 44, 2173.	3.3	17
117	Programmable generation of terahertz bursts in chirped-pulse laser amplification. Optica, 2020, 7, 1758.	9.3	17
118	Optical Detection of Interfering Pathways in Subfemtosecond Multielectron Dynamics. Physical Review Letters, 2009, 103, 033901.	7.8	16
119	Third-harmonic generation and scattering in combustion flames using a femtosecond laser filament. Optics Letters, 2018, 43, 615.	3.3	16
120	Subfemtosecond Tracing of Molecular Dynamics during Strong-Field Interaction. Physical Review Letters, 2019, 123, 263201.	7.8	16
121	Influence of 2.09-Î¼m pulse duration on through-silicon laser ablation of thin metal coatings. Optics and Laser Technology, 2021, 133, 106535.	4.6	16
122	High energy redshifted and enhanced spectral broadening by molecular alignment. Optics Letters, 2020, 45, 3013.	3.3	16
123	Generation of high fidelity 62-fs, 7-nJ pulses at 1035 nm from a net normal-dispersion Yb-fiber laser with anomalous dispersion higher-order-mode fiber. Optics Express, 2013, 21, 16255.	3.4	15
124	Sagnac interferometric multipass loop amplifier. Optics Express, 2012, 20, 25121.	3.4	14
125	Sub-100 fs pulses from an all-polarization maintaining Yb-fiber oscillator with an anomalous dispersion higher-order-mode fiber. Optics Express, 2015, 23, 26139.	3.4	14
126	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

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127	Experimental Separation of Subcycle Ionization Bursts in Strong-Field Double Ionization of H2. Physical Review Letters, 2020, 124, 103201.	7.8	14
128	High-gain amplification in Yb:CaF2 crystals pumped by a high-brightness Yb-doped 976Ânm fiber laser. Applied Physics B: Lasers and Optics, 2013, 111, 495-500.	2.2	13
129	Molecular oxygen observed by direct photoproduction from carbon dioxide. Physical Review A, 2017, 95, .	2.5	13
130	Long-term stabilization of the carrier-envelope phase of few-cycle laser pulses. Applied Physics B: Lasers and Optics, 2004, 79, 1021-1025.	2.2	12
131	Single sub-fs soft-X-ray pulses: generation and measurement with the atomic transient recorder. Journal of Modern Optics, 2005, 52, 261-275.	1.3	12
132	High-energy pulse stacking via regenerative pulse-burst amplification. Optics Letters, 2017, 42, 2201.	3.3	12
133	High-power top-hat pulses from a Yb master oscillator power amplifier for efficient optical parametric amplifier pumping. Optics Letters, 2012, 37, 2547.	3.3	11
134	Combined Yb/Nd driver for optical parametric chirped pulse amplifiers. Optics Express, 2016, 24, 22261.	3.4	11
135	Generalized Phase Sensitivity of Directional Bond Breaking in the Laser-Molecule Interaction. Physical Review Letters, 2020, 125, 023202.	7.8	11
136	The criterion of pulse reconstruction quality based on Wigner representation. Applied Physics B: Lasers and Optics, 2000, 70, S109-S117.	2.2	10
137	Solvent-Controlled Acceleration of Electron Transfer in Binary Mixtures. Journal of Physical Chemistry A, 2001, 105, 11407-11413.	2.5	10
138	Plasma-blueshift spectral shear interferometry for characterization of ultimately short optical pulses. Optics Letters, 2009, 34, 82.	3.3	10
139	Broadband self-switching of femtosecond pulses in highly nonlinear high index contrast dual-core fibre. Optics Communications, 2020, 472, 126043.	2.1	10
140	Time-and-energy resolved measurement of the cascaded Auger decay in krypton. Laser Physics, 2011, 21, 1270-1274.	1.2	9
141	High peak-power monolithic femtosecond ytterbium fiber chirped pulse amplifier with a spliced-on hollow core fiber compressor. Optics Express, 2014, 22, 16759.	3.4	9
142	Direct carrier-envelope phase control of an amplified laser system. Optics Letters, 2014, 39, 1669.	3.3	9
143	Multioctave supercontinua from shock-coupled soliton self-compression. Physical Review A, 2019, 99, .	2.5	9
144	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	4.1	9

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145	Bifurcation suppression in regenerative amplifiers by active feedback methods. Optics Express, 2020, 28, 1722.	3.4	8
146	Broadly tunable carrier envelope phase stable optical parametric amplifier pumped by a monolithic ytterbium fiber amplifier. Optics Letters, 2009, 34, 2799.	3.3	7
147	Numerical investigation of the sequential-double-ionization dynamics of helium in different few-cycle-laser-field shapes. Physical Review A, 2017, 95, .	2.5	7
148	Zero-energy proton dissociation of H2+ through stimulated Raman scattering. Physical Review A, 2019, 99, .	2.5	7
149	Laser-induced dissociative recombination of carbon dioxide. Physical Review Research, 2019, 1, .	3.6	7
150	10-mJ optically synchronized CEP-stable chirped parametric amplifier at 1.5 Î¼m. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 108, 456-462.	0.6	6
151	Channel-resolved subcycle interferences of electron wave packets emitted from in two-color laser fields. High Power Laser Science and Engineering, 2016, 4, .	4.6	6
152	Modeling and iterative pulse-shape control of optical chirped pulse amplifiers. Automatica, 2018, 98, 150-158.	5.0	6
153	Laser-Induced Electron Transfer in the Dissociative Multiple Ionization of Argon Dimers. Physical Review Letters, 2020, 125, 063202.	7.8	6
154	High Contrast All-Optical Dual Wavelength Switching of Femtosecond Pulses in Soft Glass Dual-Core Optical Fiber. Journal of Lightwave Technology, 2021, 39, 5111-5117.	4.6	6
155	Ultrafast Electroâ€Absorption Switching in Colloidal CdSe/CdS Core/Shell Quantum Dots Driven by Intense THz Pulses. Advanced Optical Materials, 2022, 10, .	7.3	6
156	Intense, directional UV emission from molecular nitrogen ions in an adaptively controlled femtosecond filament. EPJ Web of Conferences, 2013, 41, 10004.	0.3	5
157	Optimizing pulse compressibility in completely all-fibered Ytterbium chirped pulse amplifiers for in vivo two photon laser scanning microscopy. Biomedical Optics Express, 2017, 8, 3526.	2.9	5
158	Raman Redâ€Shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cutâ€Off. Advanced Photonics Research, 2021, 2, 2100113.	3.6	5
159	Extended focal depth Fourier domain optical coherence microscopy with a Bessel-beam â€“ LP₀₂ mode â€“ from a higher order mode fiber. Biomedical Optics Express, 2021, 12, 7327.	2.9	5
160	Generation and Measurement of Intense Phase-Controlled Few-Cycle Laser Pulses. , 2005, , 263-313.		4
161	Dispersion and nonlinear phase-shift compensation in high-peak-power short-pulse fiber laser sources using photonic-crystal fibers. Laser Physics, 2008, 18, 1389-1399.	1.2	4
162	Strong Light-Field Driven Nanolasers. Nano Letters, 2019, 19, 3563-3568.	9.1	4

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163	Raman effect in the spectral broadening of ultrashort laser pulses in saturated versus unsaturated hydrocarbon molecules. Optics Express, 2020, 28, 980.	3.4	3
164	Complex Study of Solitonic Ultrafast SelfSwitching in Slightly Asymmetric Dual-CoreFibers. Applied Optics, 2021, 60, 10191-10198.	1.8	3
165	Efficient Broadband Terahertz Generation in BNA Organic Crystals at Ytterbium Laser Wavelength. , 2020, , .		3
166	Stimulated Amplification of UV Emission in a Femtosecond Filament Using Adaptive Control. , 2012, , .		2
167	Multi-octave Acousto-Optic Spectrum Analyzer for Mid-Infrared Pulsed Sources. , 2014, , .		2
168	Quantitative retrieval of the angular dependence of laser-induced electron rescattering in molecules. Physical Review A, 2021, 103, .	2.5	2
169	Laser-subcycle control of electronic excitation across system boundaries. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 164004.	1.5	2
170	Exploring photoelectron angular distributions emitted from molecular dimers by two delayed intense laser pulses. Physical Review A, 2020, 102, .	2.5	2
171	250-GW Sub-Three-Cycle Multi-Millijoule Mid-IR Pulses Self-Compressed in a YAG plate. , 2015, , .		2
172	Frequency-resolved Optical Gating Characterization of 45-fs Pulses. Optics and Photonics News, 1998, 9, 52.	0.5	1
173	Hydrated Electron Dynamics at a Five Femtosecond Time Scale. Zeitschrift Fur Physikalische Chemie, 1998, 1, 141-147.	2.8	1
174	FROG in the Single-Cycle Regime. , 2000, , 257-303.		1
175	Self-referencing of the carrier-envelope slip in a 6-fs visible parametric amplifier:â€ƒerrata. Optics Letters, 2002, 27, 2046.	3.3	1
176	Free-Space Nitrogen Laser from a Mid-Infrared Filament. , 2012, , .		1
177	Mid-Infrared femtosecond filament and three octaves continuum generation in gases. EPJ Web of Conferences, 2013, 41, 10003.	0.3	1
178	Generation of multi-color carrier-envelope phase locked pulse with continuous color tunability. Optics Communications, 2014, 315, 310-316.	2.1	1
179	New horizons of optics of the midinfrared spectral range. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	1
180	The molecular attoclock: sub-cycle control of electronic dynamics during H2 double ionization. EPJ Web of Conferences, 2019, 205, 02002.	0.3	1

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181	Two-Color Mid-Infrared Laser Filaments Produce Terahertz Pulses with Extreme Efficiency. , 2019, , .		1
182	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	3.2	1
183	Photon-Echo Spectroscopy of the Hydrated Electron with 5-fs Pulses. Springer Series in Chemical Physics, 2001, , 464-466.	0.2	1
184	Efficient few-cycle mid-IR pulse generation in the 5-11 Âµm window driven by an Yb amplifier. , 2017, , .		1
185	Bright Coherent Attosecond-to-Zeptosecond Kiloelectronvolt X-ray Supercontinua. , 2011, , .		1
186	Optimization of Quantum Trajectories Driven by Strong-Field Waveforms. , 2014, , .		1
187	Towards ultrafast subnanojoule solitonic nonlinear directional coupler based on soft glass dual-core photonics crystal fibers. , 2018, , .		1
188	Laser De-bonding from Silicon Wafers with Picosecond 2.09-Î¼m Holmium Laser. , 2020, , .		1
189	Dynamic real-time subtraction of stray-light and background for multiphoton imaging. Biomedical Optics Express, 2021, 12, 288.	2.9	1
190	A Compact All-Solid-State Sub-5-fsec Laser. Optics and Photonics News, 1997, 8, 46.	0.5	0
191	Introduction to the Issue on Ultrafast Science and Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 161-162.	2.9	0
192	Photonic-crystal fibers for dispersion compensation in short-pulse fiber laser sources: design algorithms and dispersion characterization. , 2007, , .		0
193	Demonstration and control of the fast-absorption recovery times of the InGaN/GaN quantum well saturable absorbers. Proceedings of SPIE, 2007, , .	0.8	0
194	Solitonic dynamics of ultrashort pulses in a highly nonlinear photonic-crystal fiber visualized by spectral interferometry. Optics Letters, 2008, 33, 446.	3.3	0
195	Absorption recovery time reduction in InGaN/GaN quantum well saturable absorbers. Journal of Applied Physics, 2008, 103, 103508.	2.5	0
196	Mapping of attosecond ionization dynamics by recollision-free higher-order harmonic generation. Proceedings of SPIE, 2009, , .	0.8	0
197	Optical imaging of tunneling ionization in gases and bulk solids. , 2009, , .		0
198	30-fs 1.6 mJ Pulses at a kHz Repetition Rate from a Single Stage DPSS Yb Amplifier. , 2010, , .		0

#	Article	IF	Citations
199	High single-pass small signal gain in Femtosecond Solid State Yb:CaF2 Amplifiers Pumped by a 976-nm YDFA. , 2011, , .		0
200	Measuring the influence of the Coulomb binding potential on the trajectories of strong-field driven electronic wave packets. , 2011, , .		0
201	High energy proton ejection from hydrocarbon molecules driven by highly efficient field ionization. , 2011, , .		0
202	Controlling and reading interference structures created by strong field ionizing attosecond electron wave packets. , 2011, , .		0
203	Filamentation of Few-Cycle Mid-Infrared Pulses in Gases. , 2012, , .		0
204	High-Resolution Attosecond Photoelecton Spectroscopy in Xenon. , 2012, , .		0
205	Toward â€œPerfect-Waveâ€•HHG Driving With a Multicolor OPA. , 2012, , .		0
206	Spatial control of electronic wave packets with attosecond precision. Journal of Physics: Conference Series, 2012, 388, 032069.	0.4	0
207	Frontiers in extreme nonlinear optics: Attosecond-to-zeptosecond coherent kiloelectronvolt X-rays on a tabletop. , 2013, , .		0
208	Controlling chemical bond break in hydrocarbons with laser fields. , 2014, , .		0
209	Self-Compression to Sub-Cycle Regime in Kagome Hollow-Core Photonic Crystal Fiber. , 2014, , .		0
210	A high power directly diode pumped Ti:sapphire laser with synchronized Yb-fiber amplifier for nonlinear optical microscopy and optical coherence tomography. , 2014, , .		0
211	Development of a high-power mid-IR parametric amplifier for multicolor driving of high harmonic generation. , 2015, , .		0
212	Observation of High-Lying Rydberg States Survived from Strong Field Interaction. , 2015, , .		0
213	Two-Pulse Control over Double Ionization Pathways in CO₂. Journal of Physics: Conference Series, 2015, 635, 112034.	0.4	0
214	High-Lying Rydberg States from Strong Field Interaction. Journal of Physics: Conference Series, 2015, 635, 092084.	0.4	0
215	"Slow" Molecular Fragmentation after Ultrafast Interaction. Journal of Physics: Conference Series, 2015, 635, 112069.	0.4	0
216	A 1-kHz-repetition-rate 100-fs CEP-stable Mid-IR Parametric Amplifier Tunable across the Mid-IR Fingerprint Region. , 2016, , .		0

#	Article	IF	Citations
217	Generation of a single UV pulse from a near-IR pulse burst. , 2017, , .		0
218	From three-photon to tunnel ionization pumped ZnO nanolasers. , 2017, , .		0
219	Filamentation of chirped mid-IR pulses in ambient air in the vicinity of zero dispersion. , 2017, , .		0
220	X-ray emission from nanostructured targets irradiated by a relativistically intense mid-infrared driver. , 2017, , .		0
221	Chirp-controlled filamentation of multi-mJ mid-IR pulses in ambient air. , 2017, , .		0
222	Direct observation of laser-induced O<inf>2</inf>⁺ production from CO<inf>2</inf>. , 2017, , .		0
223	Role of CO<inf>2</inf> in filamentation of 3.9-Î¼m Mid IR pulses in ambient air. , 2017, , .		0
224	Localizing high-lying Rydberg wave packets by orthogonally-polarized two-color laser pulses. , 2017, , .		0
225	High repetition rate fs pulse burst generation using the Vernier effect. , 2017, , .		0
226	Burst-mode pumping scheme for longwave parametric amplification. , 2017, , .		0
227	Laser-Induced Oxygen Formation from Carbon Dioxide. Journal of Physics: Conference Series, 2017, 875, 032024.	0.4	0
228	Localizing High-Lying Rydberg Wave Packets with Orthogonally-Polarized Two-Color Laser Fields. Journal of Physics: Conference Series, 2017, 875, 022016.	0.4	0
229	Filament-Initiated Lasing in Neutral Molecular Nitrogen. Springer Series in Optical Sciences, 2018, , 89-120.	0.7	0
230	Identifikation und Simulation optischer VerstÃrker fÃ¼r ultra-kurze Laserpulse. Automatisierungstechnik, 2018, 66, 66-78.	0.8	0
231	Isolated Pulse Parametric Frequency Conversion under Burst-Mode Pumping. , 2018, , .		0
232	Frustrated Double Ionization of Argon Atoms. , 2018, , .		0
233	Ho:YAG Amplifier with Dispersion Control and Spectral Shaping in a Single Volume Bragg Grating. , 2019, , .		0
234	Gigawatt Peak Power Pulses in the 5â€“9 Î¼m Window Driven by an Yb Amplifier. , 2019, , .		0

#	Article	IF	Citations
235	Sub-Cycle Separation of Ionization Bursts in the Double Ionization of H2. , 2019, , .		0
236	Mapping Mid-Infrared Dispersion Landscape onto Near-Infrared and Visible through Filamentation of Laser Pulses at 3.9 Î¼m in Air. , 2019, , .		0
237	Photoelectron Circular Dichroism at the Few-Cycle Limit in the Tunnel Ionization Regime. , 2019, , .		0
238	Broadband Terahertz Generation from Mid-Infrared 3.9 Î¼m OPCPA and Organic Crystals. , 2019, , .		0
239	Comparative Study of Harmonic Generation in Air and Argon in Light Filaments Driven by Circularly Polarized Mid-IR Pulses. , 2019, , .		0
240	Multioctave Supercontinua from Shock-Coupled Soliton Self-Compression in Hollow-Core Antiresonance-Guiding PCF. , 2019, , .		0
241	Nonlinear THz Field Applications in Free Space. , 2019, , .		0
242	Frustrated double ionization of argon atoms in strong laser fields. EPJ Web of Conferences, 2019, 205, 06007.	0.3	0
243	Imaging Rydberg States of Atoms and Molecules with a Weak DC Field. , 2019, , .		0
244	Comparative Study of High Order Harmonic Generation in Monolayer-Thick Semiconductors. , 2019, , .		0
245	Phase-Locked Programmable Femtosecond Pulse Bursts from a Regenerative Amplifier. , 2019, , .		0
246	High Harmonic Generation in Arrays of CdSe Quantum Dots. , 2019, , .		0
247	Dissociation of Laser-Induced Highly-Excited CO+ 2. , 2019, , .		0
248	Non-Linear Propagation of Ultrashort Mid-IR Pulses. , 2019, , .		0
249	Effects of the Pump Wavelength on Laser-Induced Ultrafast Demagnetization. , 2019, , .		0
250	Non-linear Response of CdSe/CdS Quantum Dots Driven by Intense Terahertz Pulses. , 2021, , .		0
251	Comparative Study on efficient THz Generation in the organic Crystal DAST driven by mid-IR Pulses. , 2021, , .		0
252	Robust Self-Referenced Generator of Programmable Multi-Millijoule THz-Rate Bursts. , 2021, , .		0

#	Article	IF	Citations
253	Ellipticity dependent excitation and high harmonic generation from intense mid-IR laser pulses in ZnO. , 2021, , .		0
254	Ultrafast Electro-Optic Modulation in CdSe/CdS Quantum Dots by intense THz Pulses. , 2021, , .		0
255	Contribution of free carriers to light absorption upon intense light-semiconductor interaction. , 2021, , .		0
256	Ultrafast All-Optical Two-Colour Switching in Asymmetric Dual-Core Fibre. , 2021, , .		0
257	Photon-echo spectroscopy with 5-fs pulses. , 2000, , .		0
258	Ultrashort Pulse Characterization by Frequency-Resolved Pump-Probe. Springer Series in Chemical Physics, 2001, , 147-149.	0.2	0
259	All-Optical Carrier-Envelope-Phase Stabilization of Ultrashort Laser Pulses by a Parametric Process. , 2002, , .		0
260	All-Optical Self-Stabilization of Carrier-Envelope Phase Offset in Few-Cycle Pulses by Optical Parametric Amplifiers. Springer Series in Chemical Physics, 2003, , 181-183.	0.2	0
261	Broadly Tunable CEP Stable OPA Pumped by a Monolithic Ytterbium Fiber Amplifier. , 2009, , .		0
262	Multi-mJ kHz cw-Pumped Femtosecond Yb,Na:CaF2 Amplifier. , 2009, , .		0
263	20-fs 1.6-mJ Pulses from a cw-Diode-Pumped Single-Stage 1-kHz Yb Amplifier. , 2010, , .		0
264	Toward Efficient Femtosecond Solid State Yb Amplifiers Pumped by a 976-nm YDFA. , 2011, , .		0
265	Double ionization dynamics of ethylene in a strong laser field. , 2012, , .		0
266	Double ionization dynamics of ethylene in a strong laser field. , 2012, , .		0
267	Complete Fragmentation of Hydrocarbon Molecules Probed by Few-cycle Laser Pulses. , 2012, , .		0
268	Attosecond wavefunction retrieval by electron wavepacket interferometry. , 2012, , .		0
269	Attosecond Strong-field Electron Wavepacket Interferometry. , 2012, , .		0
270	Multi-octave acousto-optic analyzer for spectral measurement in the mid-infrared spectral range. , 2013, , .		0

#	Article	IF	Citations
271	Controlling Fragmentation Reactions of Polyatomic Molecules with Impulsive Alignment. , 2014, , .		0
272	Control of Chemical Bond Break with both Electronic and Nuclear Dynamics. , 2014, , .		0
273	Sub-100 fs mid-infrared pulses as driver for a table-top hard x-ray source. , 2014, , .		0
274	Direct Carrier-Envelope Phase Control of a sub-MHz Yb amplifier. , 2014, , .		0
275	Table-top hard x-ray source driven by sub-100 fs mid-infrared pulses. , 2014, , .		0
276	Sub-Cycle Gigawatt Peak Power Pulses Self-Compressed by Optical Shock Waves. , 2014, , .		0
277	Electronic Pre-Determination of Ethylene Fragmentation Dynamics Using Intense, Ultrashort Laser Pulses. , 2014, , .		0
278	Controlling molecular fragmentation reactions with impulsive alignment. , 2014, , .		0
279	Electronic Pre-determination of Ethylene Fragmentation Dynamics. Springer Proceedings in Physics, 2015, , 155-159.	0.2	0
280	Attosecond Spatial Control of Electron Wave Packet Emission Dynamics. Springer Proceedings in Physics, 2015, , 113-117.	0.2	0
281	Coincidence Spectroscopy of High-Lying Rydberg States with a Reaction Microscope. , 2016, , .		0
282	Hollow-Core-Waveguide Compression of Multi-mJ CEP-Stable 3.2-Î¼m Pulses. , 2016, , .		0
283	 Mid-IR pulse post-compression in hollow-core waveguide. , 2016, , .		0
284	Laser-sub-cycle control of sequential double ionization dynamics of helium. , 2016, , .		0
285	Filamentation and Self-compression of High-Energy mid-IR Pulses. , 2016, , .		0
286	Laser-sub-cycle Fragmentation Dynamics of Argon Dimers. , 2016, , .		0
287	Molecular pathway control in sequential double ionization of CO2 using two-pulse sequences. , 2016, , .		0
288	Sub 100-fs, 5.2-micron ZGP Parametric Amplifier Driven by a ps Ho:YAG Chirped Pulse Amplifier and its application to high harmonic generation. , 2016, , .		0

#	Article	IF	Citations
289	Highly Efficient Semiconductor Terahertz Pulse Sources Pumped Beyond the Three-Photon Absorption Edge. , 2016, , .		0
290	Burst-Mode Pumping for Single-Pulse Parametric Amplification in the Long-Wave IR. , 2017, , .		0
291	Multicolor Burst Pump for Long-Wave Parametric Amplifiers. , 2017, , .		0
292	Dual-cycle regenerative amplification of delayed pulses for driving OPA chains. , 2017, , .		0
293	The Molecular Attoclock: Sub-cycle Control of Electronic Dynamics During H2 Double Ionization. , 2018, , .		0
294	High Energy, Few-Cycle Parametric Source Tunable in the 5â€“11 Âµm Window Driven by an Yb Bulk CPA System. , 2018, , .		0
295	Two-Dimensional Control of Electron Localization in H₂Dissociation with Elliptically Polarized Few-Cycle Laser Pulses. , 2018, , .		0
296	High flux soft X-ray source driven on Yb laser amplifier for resonant magnetic diffraction application. , 2018, , .		0
297	High power hollow-core fiber compression of Yb lasers as ideal drivers for HHG. , 2018, , .		0
298	Highly Efficient THz Generation by Mid-IR Pulses. , 2019, , .		0
299	Phase-Locked Programmable Femtosecond Pulse Bursts from a Regenerative Amplifier. , 2019, , .		0
300	Generation of Sub-millijoule Few-optical-cycle Mid-IR Pulses via Cascaded Parametric Down-conversion. , 2019, , .		0
301	Material Processing with Picosecond 2-Î¼m Pulses from Ho:YAG Amplifier. , 2019, , .		0
302	Low-Order Harmonic Generation in Mid-Infrared Laser Filaments in Gases. , 2019, , .		0
303	Generation of Continuously-Tunable, Narrowband THz Pulses from Phase-Locked Femtosecond Pulse Bursts. , 2020, , .		0
304	Efficient THz generation by optical rectification of intense mid-infrared pulses in organic crystals. , 2020, , .		0
305	Generation of Continuously-Tunable, Narrowband THz Pulses from Phase-Locked Femtosecond Pulse Bursts. , 2020, , .		0
306	Raman effect in the spectral broadening of ultrashort laser pulses in hydrocarbon molecules. , 2020, , .		0

#	Article	IF	Citations
307	Broadband intense THz radiation from organic crystals driven by mid-infrared pulses. , 2020, , .		0
308	Carrier-Envelope-Phase Characterization Using Harmonic Spectral Interference in Mid-Infrared Laser Filament in Argon. , 2021, , .		0
309	High Harmonic Generation Driven by Raman Multidimensional Solitary States. , 2021, , .		0
310	Self-Switching of Femtosecond Pulses in Highly Nonlinear Dual-Core Fibre. , 2020, , .		0
311	Novel Intense Single- and Multicycle THz Sources. , 2020, , .		0
312	Robust Self-Referenced Generator of Programmable Multi-Millijoule THz-Rate Bursts. , 2021, , .		0
313	Ultrafast Manipulation of Electro-Absorption in Colloidal Quantum Dots by MV/cm-THz Fields from DAST driven by mid-IR Pulses. , 2021, , .		0
314	Two all-optical switching schemes of 1560 nm femtosecond pulses using soft glass asymmetric dual-core fibers. , 2022, , .		0