

Andrius Baltuska

List of Publications by Year in descending order

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314
papers

14,705
citations

34016

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docs citations

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times ranked

6381
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright Coherent Ultrahigh Harmonics in the keV X-ray Regime from Mid-Infrared Femtosecond Lasers. <i>Science</i> , 2012, 336, 1287-1291.	6.0	1,537
2	Attosecond control of electronic processes by intense light fields. <i>Nature</i> , 2003, 421, 611-615.	13.7	1,493
3	Atomic transient recorder. <i>Nature</i> , 2004, 427, 817-821.	13.7	1,271
4	Attosecond spectroscopy in condensed matter. <i>Nature</i> , 2007, 449, 1029-1032.	13.7	992
5	Direct Measurement of Light Waves. <i>Science</i> , 2004, 305, 1267-1269.	6.0	596
6	Controlling the Carrier-Envelope Phase of Ultrashort Light Pulses with Optical Parametric Amplifiers. <i>Physical Review Letters</i> , 2002, 88, 133901.	2.9	467
7	Measurement of the Phase of Few-Cycle Laser Pulses. <i>Physical Review Letters</i> , 2003, 91, 253004.	2.9	447
8	90 GW peak power few-cycle mid-infrared pulses from an optical parametric amplifier. <i>Optics Letters</i> , 2011, 36, 2755.	1.7	372
9	Visible pulse compression to 4 fs by optical parametric amplification and programmable dispersion control. <i>Optics Letters</i> , 2002, 27, 306.	1.7	338
10	Optical pulse compression to 5 fs at a 1-MHz repetition rate. <i>Optics Letters</i> , 1997, 22, 102.	1.7	296
11	Parametric amplification of few-cycle carrier-envelope phase-stable pulses at 21 μm . <i>Optics Letters</i> , 2006, 31, 1103.	1.7	233
12	Autocorrelation measurement of 6-fs pulses based on the two-photon-induced photocurrent in a GaAsP photodiode. <i>Optics Letters</i> , 1997, 22, 1344.	1.7	214
13	Observation of extremely efficient terahertz generation from mid-infrared two-color laser filaments. <i>Nature Communications</i> , 2020, 11, 292.	5.8	186
14	Phase-controlled amplification of few-cycle laser pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 972-989.	1.9	178
15	High-brightness table-top hard X-ray source driven by sub-100-femtosecond mid-infrared pulses. <i>Nature Photonics</i> , 2014, 8, 927-930.	15.6	175
16	Multimillijoule chirped parametric amplification of few-cycle pulses. <i>Optics Letters</i> , 2005, 30, 567.	1.7	166
17	Fast volumetric calcium imaging across multiple cortical layers using sculpted light. <i>Nature Methods</i> , 2016, 13, 1021-1028.	9.0	158
18	Free-space nitrogen gas laser driven by a femtosecond filament. <i>Physical Review A</i> , 2012, 86, .	1.0	148

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19	Gouy Phase Shift for Few-Cycle Laser Pulses. <i>Physical Review Letters</i> , 2004, 92, 113001.	2.9	140
20	Attosecond-Recollision-Controlled Selective Fragmentation of Polyatomic Molecules. <i>Physical Review Letters</i> , 2012, 109, 243001.	2.9	136
21	Attosecond Probe of Valence-Electron Wave Packets by Subcycle Sculpted Laser Fields. <i>Physical Review Letters</i> , 2012, 108, 193004.	2.9	131
22	Soliton-based pump-seed synchronization for few-cycle OPCPA. <i>Optics Express</i> , 2005, 13, 6550.	1.7	129
23	Generation of carrier-envelope-phase-stable 2-cycle 740-fs pulses at 21-fs carrier wavelength. <i>Optics Express</i> , 2009, 17, 62.	1.7	126
24	Few-cycle optical light pulses with passive carrier-envelope phase stabilization. <i>Laser and Photonics Reviews</i> , 2011, 5, 323-351.	4.4	121
25	Near- and Extended-Edge X-Ray-Absorption Fine-Structure Spectroscopy Using Ultrafast Coherent High-Order Harmonic Supercontinua. <i>Physical Review Letters</i> , 2018, 120, 093002.	2.9	121
26	Second-harmonic generation frequency-resolved optical gating in the single-cycle regime. <i>IEEE Journal of Quantum Electronics</i> , 1999, 35, 459-478.	1.0	115
27	Amplitude and phase characterization of 45-fs pulses by frequency-resolved optical gating. <i>Optics Letters</i> , 1998, 23, 1474.	1.7	104
28	Hydrated-electron population dynamics. <i>Chemical Physics Letters</i> , 2004, 389, 171-175.	1.2	101
29	Subcycle Control of Electron-Electron Correlation in Double Ionization. <i>Physical Review Letters</i> , 2014, 112, 193002.	2.9	97
30	Ultrafast Librational Dynamics of the Hydrated Electron. <i>Physical Review Letters</i> , 1998, 80, 4645-4648.	2.9	89
31	Self-compression of millijoule 15 fs pulses. <i>Optics Letters</i> , 2009, 34, 2498.	1.7	89
32	High energy and average power femtosecond laser for driving mid-infrared optical parametric amplifiers. <i>Optics Letters</i> , 2013, 38, 2746.	1.7	84
33	Highly efficient scalable monolithic semiconductor terahertz pulse source. <i>Optica</i> , 2016, 3, 1075.	4.8	84
34	Observation of few-cycle, strong-field phenomena in surface plasmon fields. <i>Optics Express</i> , 2010, 18, 24206.	1.7	81
35	Self-referencing of the carrier-envelope slip in a 6-fs visible parametric amplifier. <i>Optics Letters</i> , 2002, 27, 1241.	1.7	78
36	Early-Time Dynamics of the Photoexcited Hydrated Electron. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10065-10082.	1.1	73

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37	Internal Momentum State Mapping Using High Harmonic Radiation. <i>Physical Review Letters</i> , 2008, 101, 033901.	2.9	73
38	Subterawatt few-cycle mid-infrared pulses from a single filament. <i>Optica</i> , 2016, 3, 299.	4.8	71
39	Optical Detection of Attosecond Ionization Induced by a Few-Cycle Laser Field in a Transparent Dielectric Material. <i>Physical Review Letters</i> , 2011, 106, 147401.	2.9	70
40	Adaptive shaping of two-cycle visible pulses using a flexible mirror. <i>Applied Physics B: Lasers and Optics</i> , 2002, 75, 427-443.	1.1	69
41	White light generation over three octaves by femtosecond filament at 39 μ m in argon. <i>Optics Letters</i> , 2012, 37, 3456.	1.7	67
42	Hollow-core-waveguide compression of multi-millijoule CEP-stable 32 μ m pulses. <i>Optica</i> , 2016, 3, 1308.	4.8	67
43	The primary events in the photoactivation of yellow protein. <i>Chemical Physics Letters</i> , 1997, 270, 263-266.	1.2	66
44	Multi-mJ, 200-fs, cw-pumped, cryogenically cooled, Yb,Na:CaF ₂ amplifier. <i>Optics Letters</i> , 2009, 34, 2075.	1.7	66
45	Selective Control over Fragmentation Reactions in Polyatomic Molecules Using Impulsive Laser Alignment. <i>Physical Review Letters</i> , 2014, 112, 163003.	2.9	66
46	Strong-field plasmonic electron acceleration with few-cycle, phase-stabilized laser pulses. <i>Applied Physics Letters</i> , 2011, 98, 111116.	1.5	64
47	Parametric amplification of 100 fs mid-infrared pulses in ZnGeP ₂ driven by a Ho:YAG chirped-pulse amplifier. <i>Optics Letters</i> , 2017, 42, 683.	1.7	63
48	Time-Resolved Absorption Difference Spectroscopy of the LH-1 Antenna of <i>Rhodospseudomonas viridis</i> . <i>Journal of Physical Chemistry A</i> , 1998, 102, 4360-4371.	1.1	59
49	Remotely pumped stimulated emission at 337 nm in atmospheric nitrogen. <i>Physical Review A</i> , 2013, 88, .	1.0	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. <i>Optics Letters</i> , 2016, 41, 930.	1.7	57
51	Laser-sub-cycle two-dimensional electron-momentum mapping using orthogonal two-color fields. <i>Physical Review A</i> , 2014, 90, .	1.0	55
52	Mid-infrared laser filamentation in molecular gases. <i>Optics Letters</i> , 2013, 38, 3194.	1.7	53
53	High Energy Proton Ejection from Hydrocarbon Molecules Driven by Highly Efficient Field Ionization. <i>Physical Review Letters</i> , 2011, 106, 163001.	2.9	52
54	Mid-infrared-to-mid-ultraviolet supercontinuum enhanced by third-to-fifteenth odd harmonics. <i>Optics Letters</i> , 2015, 40, 2068.	1.7	52

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55	Laser wakefield acceleration with mid-IR laser pulses. <i>Optics Letters</i> , 2018, 43, 1131.	1.7	52
56	Third- and fifth-harmonic generation by mid-infrared ultrashort pulses: beyond the fifth-order nonlinearity. <i>Optics Letters</i> , 2012, 37, 2268.	1.7	51
57	Stimulated Raman gas sensing by backward UV lasing from a femtosecond filament. <i>Optics Letters</i> , 2015, 40, 2469.	1.7	51
58	Sub-5 fs pulse generation from a noncollinear optical parametric amplifier. <i>Measurement Science and Technology</i> , 2002, 13, 1671-1682.	1.4	48
59	High-energy terahertz pulses from semiconductors pumped beyond the three-photon absorption edge. <i>Optics Express</i> , 2016, 24, 23872.	1.7	48
60	Extending the supercontinuum spectrum down to 200 nm with few-cycle pulses. <i>New Journal of Physics</i> , 2006, 8, 177-177.	1.2	46
61	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. <i>Optics Express</i> , 2015, 23, 15278.	1.7	45
62	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. <i>Optica</i> , 2020, 7, 1349.	4.8	45
63	Shaping of picosecond pulses for pumping optical parametric amplification. <i>Applied Physics B: Lasers and Optics</i> , 2007, 87, 79-84.	1.1	44
64	Scalable Yb-MOPA-driven carrier-envelope phase-stable few-cycle parametric amplifier at 15 μm . <i>Optics Letters</i> , 2009, 34, 118.	1.7	43
65	Disentangling Intracycle Interferences in Photoelectron Momentum Distributions Using Orthogonal Two-Color Laser Fields. <i>Physical Review Letters</i> , 2017, 119, 243201.	2.9	43
66	Optical Detection of Tunneling Ionization. <i>Physical Review Letters</i> , 2010, 104, 163904.	2.9	42
67	Optical attosecond mapping by polarization selective detection. <i>Physical Review A</i> , 2007, 76, .	1.0	41
68	Electronic Predetermination of Ethylene Fragmentation Dynamics. <i>Physical Review X</i> , 2014, 4, .	2.8	41
69	70 mJ nonlinear compression and scaling route for an Yb amplifier using large-core hollow fibers. <i>Optics Letters</i> , 2021, 46, 896.	1.7	40
70	Spectroscopy and lasing of cryogenically cooled Yb:Na:CaF ₂ . <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 339-350.	1.1	39
71	Coincidence spectroscopy of high-lying Rydberg states produced in strong laser fields. <i>Physical Review A</i> , 2016, 94, .	1.0	39
72	Seeding of an eleven femtosecond optical parametric chirped pulse amplifier and its Nd ³⁺ /picosecond pump laser from a single broadband Ti:Sapphire oscillator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 173-180.	1.9	37

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73	Angular encoding in attosecond recollision. <i>New Journal of Physics</i> , 2008, 10, 025029.	1.2	37
74	Self-compression of high-peak-power mid-infrared pulses in anomalously dispersive air. <i>Optica</i> , 2017, 4, 1405.	4.8	37
75	Theory of a filament initiated nitrogen laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 094016.	0.6	36
76	Angular structure formation in single-pass optical parametric generators pumped by intersecting beams. <i>Optics Letters</i> , 1995, 20, 2174.	1.7	35
77	Carrier-envelope-phase dependence of asymmetric C D bond breaking in C ₂ D ₂ in an intense few-cycle laser field. <i>Chemical Physics Letters</i> , 2014, 595-596, 61-66.	1.2	35
78	Ultrafast-laser-induced backward stimulated Raman scattering for tracing atmospheric gases. <i>Optics Express</i> , 2012, 20, 18784.	1.7	34
79	Spectral narrowing of chirp-free light pulses in anomalously dispersive, highly nonlinear photonic-crystal fibers. <i>Optics Express</i> , 2008, 16, 2502.	1.7	33
80	Wave Packet Dynamics in Ultrafast Spectroscopy of the Hydrated Electron. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4172-4176.	1.1	32
81	Frequency-resolved pump-probe characterization of femtosecond infrared pulses. <i>Optics Letters</i> , 2002, 27, 1171.	1.7	30
82	Effect of Laser Parameters on Ultrafast Hydrogen Migration in Methanol Studied by Coincidence Momentum Imaging. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2686-2690.	1.1	29
83	Post-filament self-trapping of ultrashort laser pulses. <i>Optics Letters</i> , 2014, 39, 4659.	1.7	29
84	Solitary beam propagation in periodic layered Kerr media enables high-efficiency pulse compression and mode self-cleaning. <i>Light: Science and Applications</i> , 2021, 10, 53.	7.7	29
85	Laser-subcycle control of sequential double-ionization dynamics of helium. <i>Physical Review A</i> , 2016, 93, .	1.0	28
86	Carrier envelope phase stabilization of a Yb:KGW laser amplifier. <i>Optics Letters</i> , 2011, 36, 3242.	1.7	27
87	Time-and-energy-resolved measurement of Auger cascades following Kr 3d excitation by attosecond pulses. <i>New Journal of Physics</i> , 2011, 13, 113003.	1.2	27
88	Localizing high-lying Rydberg wave packets with two-color laser fields. <i>Physical Review A</i> , 2017, 96, .	1.0	27
89	Pulse fidelity control in a 20-fs sub-200-fs monolithic Yb-fiber amplifier. <i>Laser Physics</i> , 2011, 21, 1329-1335.	0.6	26
90	Duration of an intense laser pulse can determine the breakage of multiple chemical bonds. <i>Scientific Reports</i> , 2015, 5, 12877.	1.6	26

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91	Highly efficient THz generation by optical rectification of mid-IR pulses in DAST. <i>APL Photonics</i> , 2021, 6, 046105.	3.0	26
92	Path-selective investigation of intense laser-pulse-induced fragmentation dynamics in triply charged 1,3-butadiene. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 085603.	0.6	25
93	Probing the influence of the Coulomb field on atomic ionization by sculpted two-color laser fields. <i>New Journal of Physics</i> , 2013, 15, 043050.	1.2	24
94	Role of proton dynamics in efficient photoionization of hydrocarbon molecules. <i>Physical Review A</i> , 2014, 89, .	1.0	24
95	Frustrated double ionization of argon atoms in strong laser fields. <i>Physical Review Research</i> , 2020, 2, .	1.3	24
96	Soliton self-frequency shift of 6-fs pulses in photonic-crystal fibers. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 585-588.	1.1	23
97	Two-proton migration in 1,3-butadiene in intense laser fields. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12939.	1.3	23
98	Strong laser-pulse-driven ionization and Coulomb explosion of hydrocarbon molecules. <i>Physical Review A</i> , 2012, 86, .	1.0	23
99	Filamentation of mid-IR pulses in ambient air in the vicinity of molecular resonances. <i>Optics Letters</i> , 2018, 43, 2185.	1.7	23
100	Hydrogen migration and C-C bond breaking in 1,3-butadiene in intense laser fields studied by coincidence momentum imaging. <i>Chemical Physics Letters</i> , 2010, 484, 119-123.	1.2	22
101	High-fidelity, 160 fs, 5 μ J pulses from an integrated Yb-fiber laser system with a fiber stretcher matching a simple grating compressor. <i>Optics Letters</i> , 2012, 37, 927.	1.7	22
102	Subterawatt femtosecond pulses in the mid-infrared range: new spatiotemporal dynamics of high-power electromagnetic fields. <i>Physics-Uspexhi</i> , 2015, 58, 89-94.	0.8	22
103	110-mJ 225-fs cryogenically cooled Yb:CaF ₂ multipass amplifier. <i>Optics Express</i> , 2016, 24, 28915.	1.7	22
104	Angle-resolved multi-octave supercontinua from mid-infrared laser filaments. <i>Optics Letters</i> , 2016, 41, 3479.	1.7	22
105	Millijoule femtosecond pulses at 1937 nm from a diode-pumped ring cavity Tm:YAP regenerative amplifier. <i>Optics Express</i> , 2018, 26, 29460.	1.7	22
106	X-SEA-F-SPIDER characterization of over octave spanning pulses in the infrared range. <i>Optics Express</i> , 2016, 24, 12713.	1.7	21
107	Fragmentation of long-lived hydrocarbons after strong field ionization. <i>Physical Review A</i> , 2016, 93, .	1.0	21
108	Enhanced ionisation of polyatomic molecules in intense laser pulses is due to energy upshift and field coupling of multiple orbitals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 125601.	0.6	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. <i>Optical Fiber Technology</i> , 2018, 42, 39-49.	1.4	21
110	Relativistic Interaction of Long-Wavelength Ultrashort Laser Pulses with Nanowires. <i>Physical Review X</i> , 2019, 9, .	2.8	19
111	Wavelength scaling of ultrafast demagnetization in Co/Pt multilayers. <i>Physical Review B</i> , 2020, 101, .	1.1	19
112	Hollow-fiber compression of 6 mJ pulses from a continuous-wave diode-pumped single-stage Yb,Na:CaF ₂ chirped pulse amplifier. <i>Optics Letters</i> , 2011, 36, 1914.	1.7	18
113	Optical and THz signatures of sub-cycle tunneling dynamics. <i>Chemical Physics</i> , 2013, 414, 92-99.	0.9	18
114	Two-pulse control over double ionization pathways in CO ₂ . <i>Journal of Chemical Physics</i> , 2016, 144, 024306.	1.2	18
115	Ultrafast multi-wavelength switch based on dynamics of spectrally-shifted solitons in a dual-core photonic crystal fiber. <i>Optics Express</i> , 2014, 22, 31092.	1.7	17
116	Chirp-controlled filamentation and formation of light bullets in the mid-IR. <i>Optics Letters</i> , 2019, 44, 2173.	1.7	17
117	Programmable generation of terahertz bursts in chirped-pulse laser amplification. <i>Optica</i> , 2020, 7, 1758.	4.8	17
118	Optical Detection of Interfering Pathways in Subfemtosecond Multielectron Dynamics. <i>Physical Review Letters</i> , 2009, 103, 033901.	2.9	16
119	Third-harmonic generation and scattering in combustion flames using a femtosecond laser filament. <i>Optics Letters</i> , 2018, 43, 615.	1.7	16
120	Subfemtosecond Tracing of Molecular Dynamics during Strong-Field Interaction. <i>Physical Review Letters</i> , 2019, 123, 263201.	2.9	16
121	Influence of 2.09- μ m pulse duration on through-silicon laser ablation of thin metal coatings. <i>Optics and Laser Technology</i> , 2021, 133, 106535.	2.2	16
122	High energy redshifted and enhanced spectral broadening by molecular alignment. <i>Optics Letters</i> , 2020, 45, 3013.	1.7	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. <i>Optics Express</i> , 2013, 21, 16255.	1.7	15
124	Sagnac interferometric multipass loop amplifier. <i>Optics Express</i> , 2012, 20, 25121.	1.7	14
125	Sub-100 fs pulses from an all-polarization maintaining Yb-fiber oscillator with an anomalous dispersion higher-order-mode fiber. <i>Optics Express</i> , 2015, 23, 26139.	1.7	14
126	Bismuth ferrite dielectric nanoparticles excited at telecom wavelengths as multicolor sources by second, third, and fourth harmonic generation. <i>Nanoscale</i> , 2018, 10, 8146-8152.	2.8	14

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127	Experimental Separation of Subcycle Ionization Bursts in Strong-Field Double Ionization of H ₂ . Physical Review Letters, 2020, 124, 103201.	2.9	14
128	High-gain amplification in Yb:CaF ₂ crystals pumped by a high-brightness Yb-doped 976Ånm fiber laser. Applied Physics B: Lasers and Optics, 2013, 111, 495-500.	1.1	13
129	Molecular oxygen observed by direct photoproduction from carbon dioxide. Physical Review A, 2017, 95, .	1.0	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.	1.1	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.	0.6	12
132	High-energy pulse stacking via regenerative pulse-burst amplification. Optics Letters, 2017, 42, 2201.	1.7	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.	1.7	11
134	Combined Yb/Nd driver for optical parametric chirped pulse amplifiers. Optics Express, 2016, 24, 22261.	1.7	11
135	Generalized Phase Sensitivity of Directional Bond Breaking in the Laser-Molecule Interaction. Physical Review Letters, 2020, 125, 023202.	2.9	11
136	The criterion of pulse reconstruction quality based on Wigner representation. Applied Physics B: Lasers and Optics, 2000, 70, S109-S117.	1.1	10
137	Solvent-Controlled Acceleration of Electron Transfer in Binary Mixtures. Journal of Physical Chemistry A, 2001, 105, 11407-11413.	1.1	10
138	Plasma-blueshift spectral shear interferometry for characterization of ultimately short optical pulses. Optics Letters, 2009, 34, 82.	1.7	10
139	Broadband self-switching of femtosecond pulses in highly nonlinear high index contrast dual-core fibre. Optics Communications, 2020, 472, 126043.	1.0	10
140	Time-and-energy resolved measurement of the cascaded Auger decay in krypton. Laser Physics, 2011, 21, 1270-1274.	0.6	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.	1.7	9
142	Direct carrier-envelope phase control of an amplified laser system. Optics Letters, 2014, 39, 1669.	1.7	9
143	Multioctave supercontinua from shock-coupled soliton self-compression. Physical Review A, 2019, 99, .	1.0	9
144	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	1.9	9

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145	Bifurcation suppression in regenerative amplifiers by active feedback methods. <i>Optics Express</i> , 2020, 28, 1722.	1.7	8
146	Broadly tunable carrier envelope phase stable optical parametric amplifier pumped by a monolithic ytterbium fiber amplifier. <i>Optics Letters</i> , 2009, 34, 2799.	1.7	7
147	Numerical investigation of the sequential-double-ionization dynamics of helium in different few-cycle-laser-field shapes. <i>Physical Review A</i> , 2017, 95, .	1.0	7
148	Zero-energy proton dissociation of H ₂ ⁺ through stimulated Raman scattering. <i>Physical Review A</i> , 2019, 99, .	1.0	7
149	Laser-induced dissociative recombination of carbon dioxide. <i>Physical Review Research</i> , 2019, 1, .	1.3	7
150	10-mJ optically synchronized CEP-stable chirped parametric amplifier at 1.5 μ m. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010, 108, 456-462.	0.2	6
151	Channel-resolved subcycle interferences of electron wave packets emitted from in two-color laser fields. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	2.0	6
152	Modeling and iterative pulse-shape control of optical chirped pulse amplifiers. <i>Automatica</i> , 2018, 98, 150-158.	3.0	6
153	Laser-Induced Electron Transfer in the Dissociative Multiple Ionization of Argon Dimers. <i>Physical Review Letters</i> , 2020, 125, 063202.	2.9	6
154	High Contrast All-Optical Dual Wavelength Switching of Femtosecond Pulses in Soft Glass Dual-Core Optical Fiber. <i>Journal of Lightwave Technology</i> , 2021, 39, 5111-5117.	2.7	6
155	Ultrafast Electroabsorption Switching in Colloidal CdSe/CdS Core/Shell Quantum Dots Driven by Intense THz Pulses. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	6
156	Intense, directional UV emission from molecular nitrogen ions in an adaptively controlled femtosecond filament. <i>EPJ Web of Conferences</i> , 2013, 41, 10004.	0.1	5
157	Optimizing pulse compressibility in completely all-fibered Ytterbium chirped pulse amplifiers for in vivo two photon laser scanning microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 3526.	1.5	5
158	Raman Redshift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. <i>Advanced Photonics Research</i> , 2021, 2, 2100113.	1.7	5
159	Extended focal depth Fourier domain optical coherence microscopy with a Bessel-beam "LP ₀₂ mode" from a higher order mode fiber. <i>Biomedical Optics Express</i> , 2021, 12, 7327.	1.5	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. <i>Laser Physics</i> , 2008, 18, 1389-1399.	0.6	4
162	Strong Light-Field Driven Nanolasers. <i>Nano Letters</i> , 2019, 19, 3563-3568.	4.5	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.	1.7	3
164	Complex Study of Solitonic Ultrafast SelfSwitching in Slightly Asymmetric Dual-CoreFibers. Applied Optics, 2021, 60, 10191-10198.	0.9	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, .	1.0	2
169	Laser-subcycle control of electronic excitation across system boundaries. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 164004.	0.6	2
170	Exploring photoelectron angular distributions emitted from molecular dimers by two delayed intense laser pulses. Physical Review A, 2020, 102, .	1.0	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.	0.4	1
173	Hydrated Electron Dynamics at a Five Femtosecond Time Scale. Zeitschrift Fur Physikalische Chemie, 1998, 1, 141-147.	1.4	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€ferrata. Optics Letters, 2002, 27, 2046.	1.7	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.	0.1	1
178	Generation of multi-color carrier-envelope phase locked pulse with continuous color tunability. Optics Communications, 2014, 315, 310-316.	1.0	1
179	New horizons of optics of the midinfrared spectral range. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 ggBT /Overlock 10 Tf	0.2	1
180	The molecular attoclock: sub-cycle control of electronic dynamics during H2 double ionization. EPJ Web of Conferences, 2019, 205, 02002.	0.1	1

#	ARTICLE	IF	CITATIONS
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, .	1.1	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 μm 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 subnanjoule 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- μm Holmium Laser. , 2020, , .		1
189	Dynamic real-time subtraction of stray-light and background for multiphoton imaging. Biomedical Optics Express, 2021, 12, 288.	1.5	1
190	A Compact All-Solid-State Sub-5-fsec Laser. Optics and Photonics News, 1997, 8, 46.	0.4	0
191	Introduction to the Issue on Ultrafast Science and Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 161-162.	1.9	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.	1.7	0
195	Absorption recovery time reduction in InGaN/GaN quantum well saturable absorbers. Journal of Applied Physics, 2008, 103, 103508.	1.1	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:CaF ₂ 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 Photoelectron Spectroscopy in Xenon. , 2012, , .		0
205	Toward "Perfect-Wave" 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.	0.3	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 CO ₂ . Journal of Physics: Conference Series, 2015, 635, 112034.	0.3	0
214	High-Lying Rydberg States from Strong Field Interaction. Journal of Physics: Conference Series, 2015, 635, 092084.	0.3	0
215	"Slow" Molecular Fragmentation after Ultrafast Interaction. Journal of Physics: Conference Series, 2015, 635, 112069.	0.3	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 ₂ production from CO ₂ . , 2017, , .		0
223	Role of CO ₂ in filamentation of 3.9- μ m 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.	0.3	0
228	Localizing High-Lying Rydberg Wave Packets with Orthogonally-Polarized Two-Color Laser Fields. Journal of Physics: Conference Series, 2017, 875, 022016.	0.3	0
229	Filament-Initiated Lasing in Neutral Molecular Nitrogen. Springer Series in Optical Sciences, 2018, , 89-120.	0.5	0
230	Identifikation und Simulation optischer Verstärker für ultra-kurze Laserpulse. Automatisierungstechnik, 2018, 66, 66-78.	0.4	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 9 μ m Window Driven by an Yb Amplifier. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
235	Sub-Cycle Separation of Ionization Bursts in the Double Ionization of H ₂ . , 2019, , .		0
236	Mapping Mid-Infrared Dispersion Landscape onto Near-Infrared and Visible through Filamentation of Laser Pulses at 3.9 μ m 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 μ m 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.	0.1	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.	0.1	0
280	Attosecond Spatial Control of Electron Wave Packet Emission Dynamics. Springer Proceedings in Physics, 2015, , 113-117.	0.1	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- μ m 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 CO ₂ 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 H ₂ Double Ionization. , 2018, , .		0
294	High Energy, Few-Cycle Parametric Source Tunable in the 5â€“11 Åµm Window Driven by an Yb Bulk CPA System. , 2018, , .		0
295	Two-Dimensional Control of Electron Localization in H ₂ Dissociation 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 2-1/4µm 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