

Aleksei M Zheltikov

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

625
papers

9,730
citations

45
h-index

64
g-index

715
ext. papers

11,309
ext. citations

2.5
avg, IF

6.53
L-index

#	Paper	IF	Citations
625	Optical attosecond pulses and tracking the nonlinear response of bound electrons. <i>Nature</i> , 2016 , 530, 66-70	50.4	241
624	Generalized nonlinear Schrödinger equation for dispersive susceptibility and permeability: application to negative index materials. <i>Physical Review Letters</i> , 2005 , 95, 013902	7.4	160
623	A strong-field driver in the single-cycle regime based on self-compression in a kagome fibre. <i>Nature Communications</i> , 2015 , 6, 6117	17.4	128
622	. <i>Physics-Uspekhi</i> , 2006 , 49, 605	2.8	126
621	Mid-infrared laser filaments in the atmosphere. <i>Scientific Reports</i> , 2015 , 5, 8368	4.9	120
620	Free-space nitrogen gas laser driven by a femtosecond filament. <i>Physical Review A</i> , 2012 , 86,	2.6	116
619	Soliton-based pump-seed synchronization for few-cycle OPCPA. <i>Optics Express</i> , 2005 , 13, 6550-7	3.3	106
618	Photonic-crystal fiber as a multifunctional optical sensor and sample collector. <i>Optics Express</i> , 2005 , 13, 3454-9	3.3	104
617	Efficient anti-Stokes generation through phase-matched four-wave mixing in higher-order modes of a microstructure fiber. <i>Optics Letters</i> , 2003 , 28, 1948-50	3	95
616	High-power wavelength-tunable photonic-crystal-fiber-based oscillator-amplifier-frequency-shifter femtosecond laser system and its applications for material microprocessing. <i>Laser Physics Letters</i> , 2009 , 6, 44-48	1.5	94
615	Phase-stable sub-cycle mid-infrared conical emission from filamentation in gases. <i>Optics Express</i> , 2012 , 20, 24741-7	3.3	88
614	Multi-millijoule few-cycle mid-infrared pulses through nonlinear self-compression in bulk. <i>Nature Communications</i> , 2016 , 7, 12877	17.4	86
613	Coherent anti-Stokes Raman scattering: from proof-of-the-principle experiments to femtosecond CARS and higher order wave-mixing generalizations. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 653-667	2.3	86
612	Mapping the electron band structure by intraband high-harmonic generation in solids. <i>Optica</i> , 2017 , 4, 516	8.6	82
611	Enhanced four-wave mixing in a hollow-core photonic-crystal fiber. <i>Optics Letters</i> , 2003 , 28, 1448-50	3	79
610	Tailoring the air plasma with a double laser pulse. <i>Physics of Plasmas</i> , 2011 , 18, 063509	2.1	71
609	Cross-correlation frequency-resolved optical gating coherent anti-Stokes Raman scattering with frequency-converting photonic-crystal fibers. <i>Physical Review E</i> , 2004 , 70, 057601	2.4	71

608	Holey fibers. <i>Uspekhi Fizicheskikh Nauk</i> , 2000 , 170, 1203	0.5	69
607	Enhanced $\chi(3)$ interactions of unamplified femtosecond Cr:forsterite laser pulses in photonic-crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2183	1.7	64
606	Saturation of third-harmonic generation in a plasma of self-induced optical breakdown due to the self-action of 80-fs light pulses. <i>Optics Communications</i> , 1997 , 133, 587-595	2	63
605	Nonlinear Optics of Photonic Crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2046	1.7	63
604	Frequency conversion of subnanjoule femtosecond laser pulses in a microstructure fiber for photochromism initiation. <i>Optics Express</i> , 2003 , 11, 2440-5	3.3	62
603	Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. <i>ACS Photonics</i> , 2018 , 5, 765-770	6.3	60
602	Enhanced spectral broadening of short laser pulses in high-numerical-aperture holey fibers. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 73, 181-184	1.9	60
601	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	7.4	58
600	White light generation over three octaves by femtosecond filament at 3.9 μm in argon. <i>Optics Letters</i> , 2012 , 37, 3456-8	3	58
599	Time-resolved coherent anti-Stokes Raman scattering with a femtosecond soliton output of a photonic-crystal fiber. <i>Optics Letters</i> , 2006 , 31, 2323-5	3	58
598	Multioctave, 3-18 μm sub-two-cycle supercontinua from self-compressing, self-focusing soliton transients in a solid. <i>Optics Letters</i> , 2015 , 40, 974-7	3	56
597	Ultrabroadband, coherent light source based on self-channeling of few-cycle pulses in helium. <i>Optics Letters</i> , 2008 , 33, 1407-9	3	56
596	Laser breakdown with millijoule trains of picosecond pulses transmitted through a hollow-core photonic-crystal fibre. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 1375-1381	3	53
595	Subterawatt few-cycle mid-infrared pulses from a single filament. <i>Optica</i> , 2016 , 3, 299	8.6	52
594	Multiwatt octave-spanning supercontinuum generation in multicore photonic-crystal fiber. <i>Optics Letters</i> , 2012 , 37, 2292-4	3	52
593	Photonic bandgap materials and birefringent layers based on anisotropically nanostructured silicon. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2273	1.7	51
592	Compression of ultrashort light pulses in photonic crystals: when envelopes cease to be slow. <i>Optics Communications</i> , 1999 , 159, 191-202	2	49
591	Phase matching of second-harmonic generation in birefringent porous silicon. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 73, 31-34	1.9	48

590	Isolated attosecond pulses from laser-driven synchrotron radiation. <i>Physical Review Letters</i> , 2012 , 109, 245005	7.4	47
589	Coherence brightened laser source for atmospheric remote sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15185-90	11.5	47
588	Guiding radar signals by arrays of laser-induced filaments: finite-difference analysis. <i>Applied Optics</i> , 2007 , 46, 5593-7	1.7	47
587	Laser ablation of dental tissues with picosecond pulses of 1.06-microm radiation transmitted through a hollow-core photonic-crystal fiber. <i>Applied Optics</i> , 2004 , 43, 2251-6	1.7	47
586	Nonlinear optics of microstructure fibers. <i>Physics-Uspexhi</i> , 2004 , 47, 69-98	2.8	46
585	Density of modes and tunneling times in finite one-dimensional photonic crystals: a comprehensive analysis. <i>Physical Review E</i> , 2004 , 70, 016612	2.4	46
584	Evolution of ultrashort light pulses in a two-level medium visualized with the finite-difference time domain technique. <i>Optics Express</i> , 2001 , 8, 452-7	3.3	46
583	Mid-infrared-to-mid-ultraviolet supercontinuum enhanced by third-to-fifteenth odd harmonics. <i>Optics Letters</i> , 2015 , 40, 2068-71	3	45
582	Mode-locked Yb-doped large-mode-area photonic crystal fiber laser operating in the vicinity of zero cavity dispersion. <i>Laser Physics Letters</i> , 2010 , 7, 230-235	1.5	45
581	Third-harmonic generation in a laser-pre-excited gas: the role of excited-state neutrals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 271, 407-412	2.3	45
580	Highly efficient frequency tripling of laser radiation in a low-temperature laser-produced gaseous plasma. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1991 , 8, 363	1.7	45
579	Mid-infrared laser filamentation in molecular gases. <i>Optics Letters</i> , 2013 , 38, 3194-7	3	44
578	Soliton self-frequency shift decelerated by self-steepening. <i>Optics Letters</i> , 2008 , 33, 1723-5	3	44
577	Time-domain spectroscopy in the mid-infrared. <i>Scientific Reports</i> , 2014 , 4, 6670	4.9	43
576	Third- and fifth-harmonic generation by mid-infrared ultrashort pulses: beyond the fifth-order nonlinearity. <i>Optics Letters</i> , 2012 , 37, 2268-70	3	43
575	Generation of a spectrally asymmetric third harmonic with unamplified 30-fs Cr:forsterite laser pulses in a tapered fiber. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 515-519	1.9	43
574	Frequency-tunable anti-Stokes line emission by eigenmodes of a birefringent microstructure fiber. <i>Optics Express</i> , 2004 , 12, 1932-7	3.3	43
573	Thermogenetic neurostimulation with single-cell resolution. <i>Nature Communications</i> , 2017 , 8, 15362	17.4	42

572	Experimental and theoretical investigation of a multicolor filament. <i>Physical Review A</i> , 2009 , 80,	2.6	41
571	Gaussian-mode analysis of waveguide-enhanced Kerr-type nonlinearity of optical fibers and photonic wires. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1100	1.7	41
570	Coherent four-wave mixing in excited and ionized gas media: four-photon spectrochronography, ellipsometry, and nonlinear-optical imaging of atoms and ions. <i>Physics-Uspekhi</i> , 1999 , 42, 321-351	2.8	41
569	Electron spin manipulation and readout through an optical fiber. <i>Scientific Reports</i> , 2014 , 4, 5362	4.9	40
568	Two-octave spectral broadening of subnanjoule Cr:forsterite femtosecond laser pulses in tapered fibers. <i>Applied Physics B: Lasers and Optics</i> , 2002 , 74, 307-311	1.9	40
567	Tailoring the soliton output of a photonic crystal fiber for enhanced two-photon excited luminescence response from fluorescent protein biomarkers and neuron activity reporters. <i>Optics Letters</i> , 2009 , 34, 3373-5	3	39
566	1.2- to 2.2- μm Tunable Raman Soliton Source Based on a Cr : Forsterite Laser and a Photonic-Crystal Fiber. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 900-902	2.2	39
565	Femtosecond pulses in nanophotonics. <i>Physics-Uspekhi</i> , 2004 , 47, 687-704	2.8	39
564	Waveguide modes of hollow photonic-crystal fibers. <i>JETP Letters</i> , 2002 , 76, 341-345	1.2	39
563	Soliton-number analysis of soliton-effect pulse compression to single-cycle pulse widths. <i>Physical Review A</i> , 2008 , 78,	2.6	38
562	Frequency-shifted megawatt soliton output of a hollow photonic-crystal fiber for time-resolved coherent anti-Stokes Raman scattering microspectroscopy. <i>Optics Letters</i> , 2006 , 31, 3318-20	3	38
561	The physical limit for the waveguide enhancement of nonlinear-optical processes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2003 , 95, 410-415	0.7	38
560	Half-cycle pulses in the mid-infrared from a two-color laser-induced filament. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 117, 611-619	1.9	37
559	Coherent anti-Stokes Raman scattering in isolated air-guided modes of a hollow-core photonic-crystal fiber. <i>Physical Review A</i> , 2004 , 70,	2.6	37
558	Stimulated Raman gas sensing by backward UV lasing from a femtosecond filament. <i>Optics Letters</i> , 2015 , 40, 2469-72	3	36
557	Solid-State Source of Subcycle Pulses in the Midinfrared. <i>Physical Review Letters</i> , 2016 , 117, 043901	7.4	36
556	Let there be white light: supercontinuum generation by ultrashort laser pulses. <i>Uspekhi Fizicheskikh Nauk</i> , 2006 , 176, 623	0.5	36
555	Nanocrystal-size-sensitive third-harmonic generation in nanostructured silicon. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 429-433	1.9	36

554	Quantum and semiclassical physics behind ultrafast optical nonlinearity in the midinfrared: the role of ionization dynamics within the field half cycle. <i>Physical Review Letters</i> , 2014 , 113, 043901	7.4	35
553	Subexawatt few-cycle lightwave generation via multipetawatt pulse compression. <i>Optics Communications</i> , 2013 , 291, 299-303	2	35
552	Nonlinear optics of microstructure fibers. <i>Uspekhi Fizicheskikh Nauk</i> , 2004 , 174, 73	0.5	35
551	Long-lived laser-induced microwave plasma guides in the atmosphere: Self-consistent plasma-dynamic analysis and numerical simulations. <i>Journal of Applied Physics</i> , 2010 , 108, 033113	2.5	34
550	Chirp control in third-harmonic generation due to cross-phase modulation. <i>Applied Physics B: Lasers and Optics</i> , 1998 , 67, 53-57	1.9	34
549	. <i>Physics-Uspekhi</i> , 2007 , 50, 705	2.8	34
548	Four-wave mixing of picosecond pulses in hollow fibers: expanding the possibilities of gas-phase analysis. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 72, 575-582	1.9	34
547	Fiber-optic control and thermometry of single-cell thermosensation logic. <i>Scientific Reports</i> , 2015 , 5, 15737	4.9	33
546	Fiber-based thermometry using optically detected magnetic resonance. <i>Applied Physics Letters</i> , 2014 , 105, 261109	3.4	33
545	A hollow beam from a holey fiber. <i>Optics Express</i> , 2006 , 14, 4128-34	3.3	33
544	Supercontinuum generation in a multiple-submicron-core microstructure fiber: toward limiting waveguide enhancement of nonlinear-optical processes. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 299-305	1.9	33
543	Frequency-tunable supercontinuum generation in photonic-crystal fibers by femtosecond pulses of an optical parametric amplifier. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2156 ¹⁻⁷	1.7	33
542	Ultrashort light pulses in hollow waveguides. <i>Uspekhi Fizicheskikh Nauk</i> , 2002 , 172, 743	0.5	33
541	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. <i>Optics Express</i> , 2015 , 23, 15278-89	3.3	32
540	Frequency-tunable sub-two-cycle 60-MW-peak-power free-space waveforms in the mid-infrared. <i>Optics Letters</i> , 2014 , 39, 6430-3	3	32
539	Implantable fiber-optic interface for parallel multisite long-term optical dynamic brain interrogation in freely moving mice. <i>Scientific Reports</i> , 2013 , 3, 3265	4.9	32
538	Population inversion of molecular nitrogen in an Ar: N ₂ mixture by selective resonance-enhanced multiphoton ionization. <i>Journal of Applied Physics</i> , 2011 , 110, 083112	2.5	32
537	Widely tunable 70-MHz near-infrared source of ultrashort pulses based on a mode-locked ytterbium laser and a photonic-crystal fiber. <i>Laser Physics Letters</i> , 2010 , 7, 355-358	1.5	32

536	Microstructure-fiber sources of mode-separable supercontinuum emission for wave-mixing spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 888-895	2.3	32
535	Holey fibers. <i>Physics-Uspexhi</i> , 2000 , 43, 1125-1136	2.8	32
534	Widely tunable soliton frequency shifting of few-cycle laser pulses. <i>Physical Review E</i> , 2006 , 74, 036617	2.4	31
533	Femtosecond laser-induced cell fusion. <i>Applied Physics Letters</i> , 2008 , 92, 093901	3.4	30
532	Self-channeling of subgigawatt femtosecond laser pulses in a ground-state waveguide induced in the hollow core of a photonic crystal fiber. <i>Optics Letters</i> , 2004 , 29, 1521-3	3	30
531	Optical detection of tunneling ionization. <i>Physical Review Letters</i> , 2010 , 104, 163904	7.4	29
530	Ionization-induced blueshift of high-peak-power guided-wave ultrashort laser pulses in hollow-core photonic-crystal fibers. <i>Physical Review A</i> , 2007 , 76,	2.6	29
529	Ionization penalty in nonlinear Raman neuroimaging. <i>Optics Letters</i> , 2011 , 36, 508-10	3	28
528	Route to attosecond nonlinear spectroscopy. <i>Physical Review Letters</i> , 2010 , 105, 243902	7.4	28
527	Ray-optic analysis of the (bio)sensing ability of ring-cladding hollow waveguides. <i>Applied Optics</i> , 2008 , 47, 474-9	1.7	28
526	Spectral narrowing of chirp-free light pulses in anomalously dispersive, highly nonlinear photonic-crystal fibers. <i>Optics Express</i> , 2008 , 16, 2502-7	3.3	28
525	Comparison of different methods for rigorous modeling of photonic crystal fibers. <i>Optics Express</i> , 2006 , 14, 5699-714	3.3	28
524	Second-harmonic generation in strongly scattering porous gallium phosphide. <i>Applied Physics B: Lasers and Optics</i> , 2004 , 79, 225-228	1.9	28
523	Field-cycle-resolved photoionization in solids. <i>Physical Review Letters</i> , 2014 , 113, 133903	7.4	27
522	Fiber-optic magnetic-field imaging. <i>Optics Letters</i> , 2014 , 39, 6954-7	3	27
521	Generation of 150 MW, 110 fs pulses by phase-locked amplification in multicore photonic crystal fiber. <i>Optics Letters</i> , 2010 , 35, 2326-8	3	27
520	High-throughput of single high-power laser pulses by hollow photonic band gap fibers. <i>Laser Physics Letters</i> , 2007 , 4, 444-448	1.5	27
519	Designing dispersion-compensating photonic-crystal fibers using a genetic algorithm. <i>Optics Communications</i> , 2008 , 281, 567-572	2	27

518	Generation of supercontinuum compressible to single-cycle pulse widths in an ionizing gas. <i>New Journal of Physics</i> , 2008 , 10, 093001	2.9	27
517	Experimental demonstration of a photonic-crystal-fiber optical diode. <i>Applied Physics B: Lasers and Optics</i> , 2004 , 78, 547-550	1.9	27
516	Nonlinear-optical spectral transformation of few-cycle laser pulses in photonic-crystal fibers. <i>Physical Review E</i> , 2005 , 72, 056603	2.4	27
515	Neurophotronics: optical methods to study and control the brain. <i>Physics-Uspekhi</i> , 2015 , 58, 345-364	2.8	26
514	Post-filament self-trapping of ultrashort laser pulses. <i>Optics Letters</i> , 2014 , 39, 4659-62	3	26
513	The Raman effect in femto- and attosecond physics. <i>Physics-Uspekhi</i> , 2011 , 54, 29-51	2.8	26
512	Ultrafast-laser-induced backward stimulated Raman scattering for tracing atmospheric gases. <i>Optics Express</i> , 2012 , 20, 18784-94	3.3	26
511	Femtosecond optical harmonic generation as a non-linear spectroscopic probe for carbon nanotubes. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 1018-1024	2.3	26
510	Powerful wavelength-tunable ultrashort solitons in a solid-core photonic-crystal fiber. <i>Optics Letters</i> , 2009 , 34, 851-3	3	25
509	Raman response function of atmospheric air. <i>Optics Letters</i> , 2007 , 32, 2052-4	3	25
508	Isolated waveguide modes of high-intensity light fields. <i>Physics-Uspekhi</i> , 2004 , 47, 1205-1220	2.8	25
507	Frequency-time and time-space mappings with broadband and supercontinuum chirped pulses in coherent wave mixing and pump-probe techniques. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 369-376	1.9	25
506	Self-compression of high-peak-power mid-infrared pulses in anomalously dispersive air. <i>Optica</i> , 2017 , 4, 1405	8.6	24
505	Third-harmonic generation with no signal at 3ω . <i>Physical Review A</i> , 2005 , 72,	2.6	24
504	Waveguide modes of electromagnetic radiation in hollow-core microstructure and photonic-crystal fibers. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 96, 857-869	1	24
503	Ultrashort light pulses in hollow waveguides. <i>Physics-Uspekhi</i> , 2002 , 45, 687-718	2.8	24
502	High-resolution magnetic field imaging with a nitrogen-vacancy diamond sensor integrated with a photonic-crystal fiber. <i>Optics Letters</i> , 2016 , 41, 472-5	3	23
501	Ionization penalty in nonlinear optical bioimaging. <i>Physical Review E</i> , 2010 , 81, 051918	2.4	23

500	Mode-controlled colors from microstructure fibers. <i>Optics Express</i> , 2004 , 12, 730-5	3.3	23
499	Negative refraction of ultra-short electromagnetic pulses. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 393-402	1.9	23
498	Propagation and amplification of ultrashort light pulses in a resonant two-level medium: finite-difference time-domain analysis. <i>Optics Communications</i> , 2001 , 193, 187-196	2	23
497	Optical breakdown of solids by few-cycle laser pulses. <i>Scientific Reports</i> , 2018 , 8, 1824	4.9	22
496	Strong-Field Photoionization as Excited-State Tunneling. <i>Physical Review Letters</i> , 2016 , 116, 123901	7.4	22
495	Subcycle solitonic breathers. <i>Physical Review A</i> , 2014 , 90,	2.6	22
494	Stabilized soliton self-frequency shift and 0.1- PHz sideband generation in a photonic-crystal fiber with an air-hole-modified core. <i>Optics Express</i> , 2008 , 16, 14987-96	3.3	22
493	Multimode anharmonic third-order harmonic generation in a photonic-crystal fiber. <i>Physical Review E</i> , 2006 , 73, 016610	2.4	22
492	Dispersion-free pulse propagation in a negative-index material. <i>Optics Letters</i> , 2005 , 30, 1998-2000	3	22
491	Diffuse optical harmonic generation in SiC nanopowder films: hunting scattered photons. <i>Applied Physics B: Lasers and Optics</i> , 2004 , 78, 73-77	1.9	22
490	Soliton self-frequency shift of 6-fs pulses in photonic-crystal fibers. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 585-588	1.9	22
489	Roadmap on integrated quantum photonics. <i>JPhys Photonics</i> ,	2.5	22
488	Coherent Raman Umklappscattering. <i>Laser Physics Letters</i> , 2011 , 8, 736-741	1.5	21
487	Nanoscale nonlinear optics in photonic-crystal fibres. <i>Journal of Optics</i> , 2006 , 8, S47-S72		21
486	Ionization-induced effects in the soliton dynamics of high-peak-power femtosecond pulses in hollow photonic-crystal fibers. <i>Physical Review A</i> , 2007 , 76,	2.6	21
485	Microstructure-fiber frequency converters. <i>Laser Physics Letters</i> , 2004 , 1, 220-233	1.5	21
484	Quantum-controlled color: chirp- and polarization-sensitive two-photon photochromism of spiropyran in the solid phase. <i>Chemical Physics Letters</i> , 2003 , 381, 572-578	2.5	21
483	Generation of the second optical harmonic in porous-silicon-based structures with a photonic band gap. <i>JETP Letters</i> , 1999 , 69, 300-305	1.2	21

482	Ultraviolet-to-millimeter-band supercontinua driven by ultrashort mid-infrared laser pulses. <i>Optica</i> , 2020 , 7, 15	8.6	21
481	Nonlinear-optical brain anatomy by harmonic-generation and coherent Raman microscopy on a compact femtosecond laser platform. <i>Applied Physics Letters</i> , 2011 , 99, 231109	3.4	20
480	Photonic-crystal-fiber platform for multicolor multilabel neurophotonic studies. <i>Applied Physics Letters</i> , 2011 , 98, 253706	3.4	20
479	Spectral compression of frequency-shifting solitons in a photonic-crystal fiber. <i>Optics Letters</i> , 2009 , 34, 662-4	3	20
478	Third-harmonic generation by Raman-shifted solitons in a photonic-crystal fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1975	1.7	20
477	Highly birefringent silicate glass photonic-crystal fiber with polarization-controlled frequency-shifted output: A promising fiber light source for nonlinear Raman microspectroscopy. <i>Optics Express</i> , 2006 , 14, 10645-51	3.3	20
476	Third-harmonic generation in focused beams as a method of 3D microscopy of a laser-produced plasma. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2001 , 90, 778-783	0.7	20
475	Asymmetric spectral broadening and temporal evolution of cross-phase-modulated third harmonic pulses. <i>Optics Express</i> , 2002 , 10, 122-7	3.3	20
474	Fiber-optic electron-spin-resonance thermometry of single laser-activated neurons. <i>Optics Letters</i> , 2016 , 41, 5563-5566	3	20
473	Angle-resolved multioctave supercontinua from mid-infrared laser filaments. <i>Optics Letters</i> , 2016 , 41, 3479-82	3	19
472	Microwave-induced thermogenetic activation of single cells. <i>Applied Physics Letters</i> , 2015 , 106, 163702	3.4	19
471	Optimizing Two-Photon Three-Dimensional Data Storage in Photochromic Materials Using the Principles of Nonlinear Optics. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 426-428	1.4	19
470	Phase-matched four-wave mixing and sensing of water molecules by coherent anti-Stokes Raman scattering in large-core-area hollow photonic-crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 2049	1.7	19
469	Probing resonant nonlinearities in organic materials using photonic-crystal fiber frequency converters. <i>Chemical Physics Letters</i> , 2005 , 405, 310-313	2.5	19
468	Three-dimensional microscopy of laser-produced plasmas using third-harmonic generation. <i>Quantum Electronics</i> , 2000 , 30, 1080-1082	1.8	19
467	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. <i>Applied Physics Letters</i> , 2020 , 117, 120601	3.4	19
466	Nonlinear dynamics of high-power ultrashort laser pulses: exaflop computations on a laboratory computer station and subcycle light bullets. <i>Physics-Uspekhi</i> , 2016 , 59, 869-877	2.8	19
465	Picosecond supercontinuum generation in large mode area photonic crystal fibers for coherent anti-Stokes Raman scattering microspectroscopy. <i>Scientific Reports</i> , 2018 , 8, 9526	4.9	19

464	Laser-induced filaments in the mid-infrared. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 092001	1.3	18
463	Attosecond shock waves. <i>Physical Review Letters</i> , 2013 , 110, 183903	7.4	18
462	Broadband Terahertz Pulses Generated by a Compact Femtosecond Photonic Crystal Fiber Amplifier. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 814-816	2.2	18
461	Application of terahertz time-domain spectroscopy in intracellular metabolite detection. <i>Journal of Biophotonics</i> , 2010 , 3, 641-5	3.1	18
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