Aleksei M Zheltikov

List of Publications by Year
in descending order

691 papers	12,618 citations	34105 52 h-index	69250 77 g-index
715 all docs	715 docs citations	715 times ranked	5685 citing authors

#	Article	IF	Citations
1	Optical attosecond pulses and tracking the nonlinear response of bound electrons. Nature, 2016, 530, 66-70.	27.8	346
2	Generalized Nonlinear SchrÃ¶dinger Equation for Dispersive Susceptibility and Permeability: Application to Negative Index Materials. Physical Review Letters, 2005, 95, 013902.	7.8	186
3	A strong-field driver in the single-cycle regime based on self-compression in a kagome fibre. Nature Communications, 2015, 6, 6117.	12.8	179
4	Title is missing!. Physics-Uspekhi, 2006, 49, 605.	2.2	152
5	Mapping the electron band structure by intraband high-harmonic generation in solids. Optica, 2017, 4, 516.	9.3	152
6	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
7	Mid-infrared laser filaments in the atmosphere. Scientific Reports, 2015, 5, 8368.	3.3	149
8	Free-space nitrogen gas laser driven by a femtosecond filament. Physical Review A, 2012, 86, .	2.5	148
9	Photonic-crystal fiber as a multifunctional optical sensor and sample collector. Optics Express, 2005, 13, 3454.	3.4	129
10	Soliton-based pump-seed synchronization for few-cycle OPCPA. Optics Express, 2005, 13, 6550.	3.4	129
11	Phase-stable sub-cycle mid-infrared conical emission from filamentation in gases. Optics Express, 2012, 20, 24741.	3.4	128
12	Multi-millijoule few-cycle mid-infrared pulses through nonlinear self-compression in bulk. Nature Communications, 2016, 7, 12877.	12.8	119
13	Efficient anti-Stokes generation through phase-matched four-wave mixing in higher-order modes of a microstructure fiber. Optics Letters, 2003, 28, 1948.	3.3	111
14	Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. ACS Photonics, 2018, 5, 765-770.	6.6	105
15	High-power wavelength-tunable photonic-crystal-fiber-based oscillator-amplifier-frequency-shifter femtosecond laser system and its applications for material microprocessing. Laser Physics Letters, 2009, 6, 44-48.	1.4	101
16	Coherent anti-Stokes Raman scattering: from proof-of-the-principle experiments to femtosecond CARS and higher order wave-mixing generalizations. Journal of Raman Spectroscopy, 2000, 31, 653-667.	2.5	95
17	Enhanced four-wave mixing in a hollow-core photonic-crystal fiber. Optics Letters, 2003, 28, 1448.	3.3	95
18	Tailoring the air plasma with a double laser pulse. Physics of Plasmas, 2011, 18, .	1.9	93

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19	Cross-correlation frequency-resolved optical gating coherent anti-Stokes Raman scattering with frequency-converting photonic-crystal fibers. Physical Review E, 2004, 70, 057601.	2.1	80
20	Nonlinear Optics of Photonic Crystals. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2046.	2.1	76
21	Frequency conversion of subnanojoule femtosecond laser pulses in a microstructure fiber for photochromism initiation. Optics Express, 2003, 11, 2440.	3.4	73
22	Saturation of third-harmonic generation in a plasma of self-induced optical breakdown due to the self-action of 80-fs light pulses. Optics Communications, 1997, 133, 587-595.	2.1	72
23	Enhanced spectral broadening of short laser pulses in high-numerical-aperture holey fibers. Applied Physics B: Lasers and Optics, 2001, 73, 181-184.	2.2	71
24	Multiwatt octave-spanning supercontinuum generation in multicore photonic-crystal fiber. Optics Letters, 2012, 37, 2292.	3.3	71
25	Subterawatt few-cycle mid-infrared pulses from a single filament. Optica, 2016, 3, 299.	9.3	71
26	Enhanced Ï‡^(3) interactions of unamplified femtosecond Cr:forsterite laser pulses in photonic-crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2183.	2.1	70
27	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
28	Nonlinear optics of microstructure fibers. Physics-Uspekhi, 2004, 47, 69-98.	2.2	68
29	Isolated Attosecond Pulses from Laser-Driven Synchrotron Radiation. Physical Review Letters, 2012, 109, 245005.	7.8	68
30	Time-domain spectroscopy in the mid-infrared. Scientific Reports, 2014, 4, 6670.	3.3	68
31	White light generation over three octaves by femtosecond filament at 39ÂÂµm in argon. Optics Letters, 2012, 37, 3456.	3.3	67
32	Compression of ultrashort light pulses in photonic crystals: when envelopes cease to be slow. Optics Communications, 1999, 159, 191-202.	2.1	65
33	Coherence brightened laser source for atmospheric remote sensing. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15185-15190.	7.1	65
34	Half-cycle pulses in the mid-infrared from a two-color laser-induced filament. Applied Physics B: Lasers and Optics, 2014, 117, 611-619.	2.2	64
35	Ultrabroadband, coherent light source based on self-channeling of few-cycle pulses in helium. Optics Letters, 2008, 33, 1407.	3.3	63
36	Time-resolved coherent anti-Stokes Raman scattering with a femtosecond soliton output of a photonic-crystal fiber. Optics Letters, 2006, 31, 2323.	3.3	62

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37	Multioctave, 3â€"18â€‰â€‰Î¼m sub-two-cycle supercontinua from self-compressing, self-focusing soliton transients in a solid. Optics Letters, 2015, 40, 974.	3.3	62
38	Highly efficient frequency tripling of laser radiation in a low-temperature laser-produced gaseous plasma. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 363.	2.1	60
39	Soliton self-frequency shift decelerated by self-steepening. Optics Letters, 2008, 33, 1723.	3.3	58
40	Coherent four-wave mixing in excited and ionized gas media: four-photon spectrochronography, ellipsometry, and nonlinear-optical imaging of atoms and ions. Physics-Uspekhi, 1999, 42, 321-351.	2.2	57
41	Photonic bandgap materials and birefringent layers based on anisotropically nanostructured silicon. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2273.	2.1	57
42	Laser breakdown with millijoule trains of picosecond pulses transmitted through a hollow-core photonic-crystal fibre. Journal Physics D: Applied Physics, 2003, 36, 1375-1381.	2.8	57
43	Density of modes and tunneling times in finite one-dimensional photonic crystals: A comprehensive analysis. Physical Review E, 2004, 70, 016612.	2.1	56
44	Laser ablation of dental tissues with picosecond pulses of 106-Î¼m radiation transmitted through a hollow-core photonic-crystal fiber. Applied Optics, 2004, 43, 2251.	2.1	56
45	Generation of a spectrally asymmetric third harmonic with unamplified 30-fs Cr:forsterite laser pulses in a tapered fiber. Applied Physics B: Lasers and Optics, 2003, 76, 515-519.	2.2	55
46	Thermogenetic neurostimulation with single-cell resolution. Nature Communications, 2017, 8, 15362.	12.8	55
47	1.2- to 2.2-mum Tunable Raman Soliton Source Based on a Crâ€‰:â€‰Forsterite Laser and a Photonic-Crystal Fiber. IEEE Photonics Technology Letters, 2008, 20, 900-902.	2.5	54
48	Third-harmonic generation in a laser-pre-excited gas: the role of excited-state neutrals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 271, 407-412.	2.1	53
49	Subexawatt few-cycle lightwave generation via multipetawatt pulse compression. Optics Communications, 2013, 291, 299-303.	2.1	53
50	Mid-infrared laser filamentation in molecular gases. Optics Letters, 2013, 38, 3194.	3.3	53
51	Phase matching of second-harmonic generation in birefringent porous silicon. Applied Physics B: Lasers and Optics, 2001, 73, 31-34.	2.2	52
52	Mid-infrared-to-mid-ultraviolet supercontinuum enhanced by third-to-fifteenth odd harmonics. Optics Letters, 2015, 40, 2068.	3.3	52
53	Femtosecond pulses in nanophotonics. Physics-Uspekhi, 2004, 47, 687-704.	2.2	51
54	Guiding radar signals by arrays of laser-induced filaments: finite-difference analysis. Applied Optics, 2007, 46, 5593.	2.1	51

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55	Mode-locked Yb-doped large-mode-area photonic crystal fiber laser operating in the vicinity of zero cavity dispersion. Laser Physics Letters, 2010, 7, 230-235.	1.4	51
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	Evolution of ultrashort light pulses in a two-level medium visualized with the finite-difference time domain technique. Optics Express, 2001, 8, 452.	3.4	50
59	Electron spin manipulation and readout through an optical fiber. Scientific Reports, 2014, 4, 5362.	3.3	50
60	Frequency-tunable anti-Stokes line emission by eigenmodes of a birefringent microstructure fiber. Optics Express, 2004, 12, 1932.	3.4	49
61	Editorial: Supercontinuum generation. Applied Physics B: Lasers and Optics, 2003, 77, 143-147.	2.2	47
62	Coherent anti-Stokes Raman scattering in isolated air-guided modes of a hollow-core photonic-crystal fiber. Physical Review A, 2004, 70, .	2.5	47
63	Two-octave spectral broadening of subnanojoule Cr:forsterite femtosecond laser pulses in tapered fibers. Applied Physics B: Lasers and Optics, 2002, 74, 307-311.	2.2	46
64	Gaussian-mode analysis of waveguide-enhanced Kerr-type nonlinearity of optical fibers and photonic wires. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1100.	2.1	46
65	Tailoring the soliton output of a photonic crystal fiber for enhanced two-photon excited luminescence response from fluorescent protein biomarkers and neuron activity reporters. Optics Letters, 2009, 34, 3373.	3.3	45
66	Fiber-optic control and thermometry of single-cell thermosensation logic. Scientific Reports, 2015, 5, 15737.	3.3	45
67	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	3.4	45
68	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. Optica, 2020, 7, 1349.	9.3	45
69	Chirp control in third-harmonic generation due to cross-phase modulation. Applied Physics B: Lasers and Optics, 1998, 67, 53-57.	2.2	44
70	Nanocrystal-size-sensitive third-harmonic generation in nanostructured silicon. Applied Physics B: Lasers and Optics, 2003, 76, 429-433.	2.2	44
71	The physical limit for the waveguide enhancement of nonlinear-optical processes. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 410-415.	0.6	44
72	Title is missing!. Physics-Uspekhi, 2007, 50, 705.	2.2	44

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73	Experimental and theoretical investigation of a multicolor filament. Physical Review A, 2009, 80, .	2.5	44
74	Supercontinuum generation in a multiple-submicron-core microstructure fiber: toward limiting waveguide enhancement of nonlinear-optical processes. Applied Physics B: Lasers and Optics, 2003, 77, 299-305.	2.2	43
75	Soliton-number analysis of soliton-effect pulse compression to single-cycle pulse widths. Physical Review A, 2008, 78, .	2.5	43
76	Implantable fiber-optic interface for parallel multisite long-term optical dynamic brain interrogation in freely moving mice. Scientific Reports, 2013, 3, 3265.	3.3	43
77	Fiber-based thermometry using optically detected magnetic resonance. Applied Physics Letters, 2014, 105, .	3.3	43
78	Solid-State Source of Subcycle Pulses in the Midinfrared. Physical Review Letters, 2016, 117, 043901.	7.8	43
79	Optical Detection of Tunneling Ionization. Physical Review Letters, 2010, 104, 163904.	7.8	42
80	Holey fibers. Physics-Uspekhi, 2000, 43, 1125-1136.	2.2	41
81	Frequency-tunable supercontinuum generation in photonic-crystal fibers by femtosecond pulses of an optical parametric amplifier. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2156.	2.1	41
82	Microstructure-fiber sources of mode-separable supercontinuum emission for wave-mixing spectroscopy. Journal of Raman Spectroscopy, 2002, 33, 888-895.	2.5	41
83	Frequency-shifted megawatt soliton output of a hollow photonic-crystal fiber for time-resolved coherent anti-Stokes Raman scattering microspectroscopy. Optics Letters, 2006, 31, 3318.	3.3	40
84	Fiber-optic magnetic-field imaging. Optics Letters, 2014, 39, 6954.	3.3	40
85	Quantum and Semiclassical Physics behind Ultrafast Optical Nonlinearity in the Midinfrared: The Role of Ionization Dynamics within the Field Half Cycle. Physical Review Letters, 2014, 113, 043901.	7.8	40
86	Ultraviolet-to-millimeter-band supercontinua driven by ultrashort mid-infrared laser pulses. Optica, 2020, 7, 15.	9.3	40
87	Waveguide modes of hollow photonic-crystal fibers. JETP Letters, 2002, 76, 341-345.	1.4	39
88	Population inversion of molecular nitrogen in an Ar: N2 mixture by selective resonance-enhanced multiphoton ionization. Journal of Applied Physics, 2011, 110, .	2.5	39
89	A hollow beam from a holey fiber. Optics Express, 2006, 14, 4128.	3.4	38
90	Field-Cycle-Resolved Photoionization in Solids. Physical Review Letters, 2014, 113, 133903.	7.8	38

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91	Neurophotonics: optical methods to study and control the brain. Physics-Uspekhi, 2015, 58, 345-364.	2.2	38
92	Four-wave mixing of picosecond pulses in hollow fibers: expanding the possibilities of gas-phase analysis. Applied Physics B: Lasers and Optics, 2001, 72, 575-582.	2.2	37
93	Second-harmonic generation in strongly scattering porous gallium phosphide. Applied Physics B: Lasers and Optics, 2004, 79, 225-228.	2.2	37
94	Widely tunable soliton frequency shifting of few-cycle laser pulses. Physical Review E, 2006, 74, 036617.	2.1	37
95	Ray-optic analysis of the (bio)sensing ability of ring-cladding hollow waveguides. Applied Optics, 2008, 47, 474.	2.1	37
96	Route to Attosecond Nonlinear Spectroscopy. Physical Review Letters, 2010, 105, 243902.	7.8	37
97	Frequency-tunable sub-two-cycle 60-MW-peak-power free-space waveforms in the mid-infrared. Optics Letters, 2014, 39, 6430.	3.3	37
98	Self-compression of high-peak-power mid-infrared pulses in anomalously dispersive air. Optica, 2017, 4, 1405.	9.3	37
99	Ultrashort light pulses in hollow waveguides. Physics-Uspekhi, 2002, 45, 687-718.	2.2	36
100	Frequency?time and time?space mappings with broadband and supercontinuum chirped pulses in coherent wave mixing and pump?probe techniques. Applied Physics B: Lasers and Optics, 2003, 77, 369-376.	2.2	36
101	Femtosecond laser-induced cell fusion. Applied Physics Letters, 2008, 92, .	3.3	36
102	Long-lived laser-induced microwave plasma guides in the atmosphere: Self-consistent plasma-dynamic analysis and numerical simulations. Journal of Applied Physics, 2010, 108, 033113.	2.5	36
103	Waveguide modes of electromagnetic radiation in hollow-core microstructure and photonic-crystal fibers. Journal of Experimental and Theoretical Physics, 2003, 96, 857-869.	0.9	35
104	Negative refraction of ultra-short electromagnetic pulses. Applied Physics B: Lasers and Optics, 2005, 81, 393-402.	2.2	35
105	Mode-controlled colors from microstructure fibers. Optics Express, 2004, 12, 730.	3.4	34
106	Comparison of different methods for rigorous modeling of photonic crystal fibers. Optics Express, 2006, 14, 5699.	3.4	34
107	Ionization-induced blueshift of high-peak-power guided-wave ultrashort laser pulses in hollow-core photonic-crystal fibers. Physical Review A, 2007, 76, .	2.5	34
108	Ultrafast-laser-induced backward stimulated Raman scattering for tracing atmospheric gases. Optics Express, 2012, 20, 18784.	3.4	34

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109	Strong-Field Photoionization as Excited-State Tunneling. Physical Review Letters, 2016, 116, 123901.	7.8	34
110	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. Applied Physics Letters, 2020, 117, 120601.	3.3	34
111	Femtosecond optical harmonic generation as a non-linear spectroscopic probe for carbon nanotubes. Journal of Raman Spectroscopy, 2003, 34, 1018-1024.	2.5	33
112	Raman response function of atmospheric air. Optics Letters, 2007, 32, 2052.	3.3	33
113	High-throughput of single high-power laser pulses by hollow photonic band gap fibers. Laser Physics Letters, 2007, 4, 444-448.	1.4	33
114	Spectral narrowing of chirp-free light pulses in anomalously dispersive, highly nonlinear photonic-crystal fibers. Optics Express, 2008, 16, 2502.	3.4	33
115	Widely tunable 70-MHz near-infrared source of ultrashort pulses based on a mode-locked ytterbium laser and a photonic-crystal fiber. Laser Physics Letters, 2010, 7, 355-358.	1.4	33
116	Generation of supercontinuum compressible to single-cycle pulse widths in an ionizing gas. New Journal of Physics, 2008, 10, 093001.	2.9	32
117	Generation of 150â€‰MW, 110â€‰fs pulses by phase-locked amplification in multicore photonic crystal fiber. Optics Letters, 2010, 35, 2326.	3.3	32
118	High-resolution magnetic field imaging with a nitrogen-vacancy diamond sensor integrated with a photonic-crystal fiber. Optics Letters, 2016, 41, 472.	3.3	32
119	Picosecond supercontinuum generation in large mode area photonic crystal fibers for coherent anti-Stokes Raman scattering microspectroscopy. Scientific Reports, 2018, 8, 9526.	3.3	32
120	Experimental demonstration of a photonic-crystal-fiber optical diode. Applied Physics B: Lasers and Optics, 2004, 78, 547-550.	2.2	31
121	Self-channeling of subgigawatt femtosecond laser pulses in a ground-state waveguide induced in the hollow core of a photonic crystal fiber. Optics Letters, 2004, 29, 1521.	3.3	31
122	The Raman effect in femto- and attosecond physics. Physics-Uspekhi, 2011, 54, 29-51.	2.2	31
123	Laser-induced filaments in the mid-infrared. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 092001.	1.5	31
124	Isolated waveguide modes of high-intensity light fields. Physics-Uspekhi, 2004, 47, 1205-1220.	2.2	30
125	Designing dispersion-compensating photonic-crystal fibers using a genetic algorithm. Optics Communications, 2008, 281, 567-572.	2.1	30
126	Ionization penalty in nonlinear Raman neuroimaging. Optics Letters, 2011, 36, 508.	3.3	30

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127	Subcycle solitonic breathers. Physical Review A, 2014, 90, .	2.5	30
128	Pulse self-compression to single-cycle pulse widths a few decades above the self-focusing threshold. Physical Review A, 2016, 94, .	2.5	30
129	Third-harmonic generation with no signal at3Ï‰. Physical Review A, 2005, 72, .	2.5	29
130	Post-filament self-trapping of ultrashort laser pulses. Optics Letters, 2014, 39, 4659.	3.3	29
131	Optical breakdown of solids by few-cycle laser pulses. Scientific Reports, 2018, 8, 1824.	3.3	29
132	Generation of the second optical harmonic in porous-silicon-based structures with a photonic band gap. JETP Letters, 1999, 69, 300-305.	1.4	28
133	Nonlinear-optical spectral transformation of few-cycle laser pulses in photonic-crystal fibers. Physical Review E, 2005, 72, 056603.	2.1	28
134	Third-harmonic generation by Raman-shifted solitons in a photonic-crystal fiber. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1975.	2.1	28
135	Ionization-induced effects in the soliton dynamics of high-peak-power femtosecond pulses in hollow photonic-crystal fibers. Physical Review A, 2007, 76, .	2.5	28
136	Spectral compression of frequency-shifting solitons in a photonic-crystal fiber. Optics Letters, 2009, 34, 662.	3.3	27
137	Powerful wavelength-tunable ultrashort solitons in a solid-core photonic-crystal fiber. Optics Letters, 2009, 34, 851.	3.3	27
138	Ionization penalty in nonlinear optical bioimaging. Physical Review E, 2010, 81, 051918.	2.1	27
139	Fiber-optic magnetometry with randomly oriented spins. Optics Letters, 2014, 39, 6755.	3.3	27
140	Fiber-optic electron-spin-resonance thermometry of single laser-activated neurons. Optics Letters, 2016, 41, 5563.	3.3	27
141	Room-temperature magnetic gradiometry with fiber-coupled nitrogen-vacancy centers in diamond. Optics Letters, 2015, 40, 3727.	3.3	26
142	Nonlinear dynamics of high-power ultrashort laser pulses: exaflop computations on a laboratory computer station and subcycle light bullets. Physics-Uspekhi, 2016, 59, 869-877.	2.2	26
143	Fiber-Optic Quantum Thermometry with Germanium-Vacancy Centers in Diamond. ACS Photonics, 2019, 6, 1690-1693.	6.6	26
144	Coherent Raman scattering in molecular hydrogen in a dc electric field. JETP Letters, 1999, 70, 375-379.	1.4	25

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145	Propagation and amplification of ultrashort light pulses in a resonant two-level medium: finite-difference time-domain analysis. Optics Communications, 2001, 193, 187-196.	2.1	25
146	Asymmetric spectral broadening and temporal evolution of cross-phase-modulated third-harmonic pulses. Optics Express, 2002, 10, 122.	3.4	25
147	Dispersion-free pulse propagation in a negative-index material. Optics Letters, 2005, 30, 1998.	3.3	25
148	Multimode anharmonic third-order harmonic generation in a photonic-crystal fiber. Physical Review E, 2006, 73, 016610.	2.1	25
149	Stabilized soliton self-frequency shift and 0.1- PHz sideband generation in a photonic-crystal fiber with an air-hole-modified core. Optics Express, 2008, 16, 14987.	3.4	25
150	Title is missing!. Physics-Uspekhi, 2008, 51, 591.	2.2	25
151	Nonlinear-optical brain anatomy by harmonic-generation and coherent Raman microscopy on a compact femtosecond laser platform. Applied Physics Letters, 2011, 99, .	3.3	25
152	Generation of 0.3 mW high-power broadband terahertz pulses from GaP crystal pumped by negatively chirped femtosecond laser pulses. Laser Physics Letters, 2013, 10, 125404.	1.4	25
153	Quantum-controlled color: chirp- and polarization-sensitive two-photon photochromism of spiropyrans in the solid phase. Chemical Physics Letters, 2003, 381, 572-578.	2.6	24
154	Highly birefringent silicate glass photonic-crystal fiber with polarization-controlled frequency-shifted output: A promising fiber light source for nonlinear Raman microspectroscopy. Optics Express, 2006, 14, 10645.	3.4	24
155	Coherent Raman Umklappscattering. Laser Physics Letters, 2011, 8, 736-741.	1.4	24
156	Quantum technologies in Russia. Quantum Science and Technology, 2019, 4, 040501.	5.8	24
157	Diffuse optical harmonic generation in SiC nanopowder films: hunting scattered photons. Applied Physics B: Lasers and Optics, 2004, 78, 73-77.	2.2	23
158	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
159	Application of Terahertz Timeâ€Domain Spectroscopy in Intracellular Metabolite Detection. Journal of Biophotonics, 2010, 3, 641-645.	2.3	23
160	The generalized Sellmeier equation for air. Scientific Reports, 2017, 7, 46111.	3.3	23
161	Keldysh photoionization theory: through the barriers. Physics-Uspekhi, 2017, 60, 1087-1120.	2.2	23
162	Filamentation of mid-IR pulses in ambient air in the vicinity of molecular resonances. Optics Letters, 2018, 43, 2185.	3.3	23

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163	Frequency-time and time-space mappings for single-shot coherent four-wave mixing with chirped pulses and broad beams. Journal of Raman Spectroscopy, 2001, 32, 960-970.	2.5	22
164	Pump-depleting four-wave mixing in supercontinuum-generating microstructure fibers. Applied Physics B: Lasers and Optics, 2003, 77, 313-317.	2.2	22
165	Second-and third-harmonic generation by carbon nanotubes irradiated with femtosecond laser pulses. Journal of Experimental and Theoretical Physics, 2004, 98, 220-226.	0.9	22
166	The friendly gas phase. Nature Materials, 2005, 4, 267-268.	27.5	22
167	Phase-matched four-wave mixing and sensing of water molecules by coherent anti-Stokes Raman scattering in large-core-area hollow photonic-crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2049.	2.1	22
168	Broadband Terahertz Pulses Generated by a Compact Femtosecond Photonic Crystal Fiber Amplifier. IEEE Photonics Technology Letters, 2010, 22, 814-816.	2.5	22
169	Photonic-crystal-fiber platform for multicolor multilabel neurophotonic studies. Applied Physics Letters, 2011, 98, .	3.3	22
170	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
171	Microwave-induced thermogenetic activation of single cells. Applied Physics Letters, 2015, 106, .	3.3	22
172	Angle-resolved multioctave supercontinua from mid-infrared laser filaments. Optics Letters, 2016, 41, 3479.	3.3	22
173	High-order harmonic generation from a solid-surface plasma by relativistic-intensity sub-100-fs mid-infrared pulses. Optics Letters, 2018, 43, 5571.	3.3	22
174	In vivo dynamics of acidosis and oxidative stress in the acute phase of an ischemic stroke in a rodent model. Redox Biology, 2021, 48, 102178.	9.0	22
175	Optimizing Two-Photon Three-Dimensional Data Storage in Photochromic Materials Using the Principles of Nonlinear Optics. Japanese Journal of Applied Physics, 1997, 36, 426-428.	1.5	21
176	High-resolution four-photon spectroscopy with chirped pulses. Quantum Electronics, 2000, 30, 606-610.	1.0	21
177	Time-resolved polarization-sensitive measurements of the electric field in a sliding discharge by means of dc field-induced coherent Raman scattering. Journal of Raman Spectroscopy, 2001, 32, 177-181.	2.5	21
178	Third-harmonic generation in focused beams as a method of 3D microscopy of a laser-produced plasma. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 778-783.	0.6	21
179	Efficient second-harmonic generation by scattering from porous gallium phosphide. JETP Letters, 2003, 78, 193-197.	1.4	21
180	Microstructure-fiber frequency converters. Laser Physics Letters, 2004, 1, 220-233.	1.4	21

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181	Tunable supercontinuum generation in a high-index-step photonic-crystal fiber with a comma-shaped core. Optics Express, 2006, 14, 1942.	3.4	21
182	Nanoscale nonlinear optics in photonic-crystal fibres. Journal of Optics, 2006, 8, S47-S72.	1.5	21
183	X-SEA-F-SPIDER characterization of over octave spanning pulses in the infrared range. Optics Express, 2016, 24, 12713.	3.4	21
184	Supercontinuum generation in photonic-molecule modes of microstructure fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 665-674.	2.9	20
185	Generation of femtosecond anti-Stokes pulses through phase-matched parametric four-wave mixing in a photonic crystal fiber. Optics Letters, 2004, 29, 1545.	3.3	20
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