Aleksei M Zheltikov

List of Publications by Year
in descending order

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691	12,618	34105	69250
papers	citations	52 h-index	77 g-index

715	715	715	5685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
2	Lightwave engineering for on-site few-cycle pulse widths in high-peak-power laserâ€“matter interaction optics. Optics Communications, 2022, 502, 127311.	2.1	1
3	State-vector geometry and guided-wave physics behind optical super-resolution. Optics Letters, 2022, 47, 1586.	3.3	2
4	Subcycle terahertz field waveforms clocked by attosecond high-harmonic pulses from relativistic laser plasmas. Journal of Applied Physics, 2022, 131, .	2.5	3
5	Adaptive Wave-Front Shaping and Beam Focusing through Fiber Bundles for High-Resolution Bioimaging. Photonics, 2022, 9, 21.	2.0	3
6	Enhanced coherent transition radiation from midinfrared-laser-driven microplasmas. Scientific Reports, 2022, 12, 7660.	3.3	5
7	Broadband ultrawide-angle laser-plasma microwave antennas. Physical Review A, 2022, 105, .	2.5	2
8	Information geometry, Pythagorean-theorem extension, and Euclidean distance behind optical sensing via spectral analysis. Laser Physics Letters, 2022, 19, 065401.	1.4	0
9	Realâ€time fiberâ€optic recording of acuteâ€ischemicâ€stroke signatures. Journal of Biophotonics, 2022, 15, .	2.3	3
10	Measurement of the Time Structure of the Field and Carrier Phase of Single-Cycle Near- and Mid-Infrared Pulses. JETP Letters, 2022, 115, 396-401.	1.4	2
11	Enhancedâ€contrast twoâ€photon optogenetic <scp>pH</scp> sensing and <scp>pH</scp>â€resolved brain imaging. Journal of Biophotonics, 2021, 14, e202000301.	2.3	4
12	Resolving neural states from optical neural response readout. Laser Physics Letters, 2021, 18, 025402.	1.4	0
13	Effect of Laser Radiation near 1.5 Âµm on the Photoluminescence Parameters and the Ensemble of NV Centers in Diamond. JETP Letters, 2021, 113, 1-6.	1.4	1
14	Keldysh time bounds of laser-driven ionization dynamics. Optics Letters, 2021, 46, 989.	3.3	5
15	Coherently enhanced microwave pulses from midinfrared-driven laser plasmas. Optics Letters, 2021, 46, 1081.	3.3	10
16	Ultralow-power instant-on photon-pair counting and photon-entanglement analysis. Laser Physics Letters, 2021, 18, 045401.	1.4	0
17	Analysis of intensity correlation enhanced plasmonic structured illumination microscopy. Optics Letters, 2021, 46, 1554.	3.3	3
18	Enhancement of Plasma Nonlinearities and Generation of a Microwaveâ€“Terahertz Supercontinuum in the Field of Subterawatt Mid-Infrared Pulses. JETP Letters, 2021, 113, 301-307.	1.4	4

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19	Light-induced uncertainty and information limits of optical neural recording. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 251, 119351.	3.9	1
20	High-harmonic-driven inverse Raman scattering. Optics Letters, 2021, 46, 3219.	3.3	1
21	Natural and magnetically induced entanglement of hyperfine-structure states in atomic hydrogen. Physical Review A, 2021, 103, .	2.5	1
22	Polarization and Spatial Mode Structure of Mid-Infrared-Driven Terahertz-to-Microwave Radiation. ACS Photonics, 2021, 8, 1988-1996.	6.6	7
23	In search of lost time: attosecond physics, petahertz optoelectronics, and quantum speed limit. Physics-Uspekhi, 2021, 64, 370-385.	2.2	20
24	Singleâ€beam dualâ€color alternateâ€pathway twoâ€photon spectroscopy: Toward an optical toolbox for redox biology. Journal of Raman Spectroscopy, 2021, 52, 1552-1560.	2.5	4
25	Laser filaments as pulsed antennas. Optics Letters, 2021, 46, 4984.	3.3	2
26	Single-beam multimodal nonlinear-optical imaging of structurally complex events in cell-cycle dynamics. JPhys Photonics, 2021, 3, 044001.	4.6	7
27	Perfect swap and transfer of arbitrary quantum states. Optics Communications, 2021, 496, 126870.	2.1	2
28	Ultrabroadband Characterization of Microwave-to-Terahertz Supercontinua Driven by Ultrashort Pulses in the Mid-Infrared. Journal of Lightwave Technology, 2021, 39, 7862-7868.	4.6	0
29	Polarized coherent microwave supercontinua with a terawatt laser driver. Physical Review A, 2021, 104, .	2.5	1
30	Bremsstrahlung, transition, and Cherenkov radiation by laser filaments. Physical Review A, 2021, 104, .	2.5	1
31	Imaging through scattering: the Fisher information and the generalized Abbe limit. Optics Letters, 2021, 46, 5902-5905.	3.3	1
32	Broadband terahertz generation by optical rectification of ultrashort multiterawatt laser pulses near the beam breakup threshold. Optics Letters, 2021, 46, 5866.	3.3	7
33	Nearâ€infraredâ€toâ€vacuumâ€ultraviolet highâ€harmonic Raman and plasma emission spectroscopy with ultrashort midâ€infrared laser pulses. Journal of Raman Spectroscopy, 2021, 52, 2089-2099.	2.5	2
34	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
35	Quantum metrology with superposition spin coherent states: Insights from Fisher information. Physical Review A, 2021, 104, .	2.5	2
36	Laser Microscopy of Scattering Media Based on the Regularized Minimally Diffuse Image Reconstruction. JETP Letters, 2021, 114, 451-455.	1.4	0

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37	Waveguided CARS in air-filled anti-resonant hollow-core fiber. , 2021, , .		0
38	Twoâ€•and threeâ€photon absorption crossâ€section characterization for highâ€brightness, cellâ€specific multiphoton fluorescence brain imaging. Journal of Biophotonics, 2020, 13, e201900243.	2.3	18
39	Relativistic Nonlinear Optical Phenomena in the Field of Subterawatt Laser Pulses. JETP Letters, 2020, 112, 17-23.	1.4	15
40	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. Applied Physics Letters, 2020, 117, 120601.	3.3	34
41	Photonic toolbox for fast real-time polymerase chain reaction. Laser Physics Letters, 2020, 17, 076202.	1.4	4
42	Singleâ€beam optogenetic multimodal Ï‡ (3) / Ï‡ (5) nonlinear microscopy and brain imaging. Journal of Raman Spectroscopy, 2020, 51, 1942-1950.	2.5	3
43	Thermogenetics as a New Direction in Controlling the Activity of Neural Networks. Neuroscience and Behavioral Physiology, 2020, 50, 1018-1023.	0.4	3
44	Sub-half-cycle field transients from shock-wave-assisted soliton self-compression. Scientific Reports, 2020, 10, 12253.	3.3	5
45	All-Optical Brain Thermometry in Freely Moving Animals. ACS Photonics, 2020, 7, 3353-3360.	6.6	12
46	Multisite cellâ€•and neuralâ€dynamicsâ€resolving deep brain imaging in freely moving mice with implanted reconnectable fiber bundles. Journal of Biophotonics, 2020, 13, e202000081.	2.3	11
47	Laser-driven tunneling photocurrent as a source of midinfrared to microwave multidecade supercontinua yoked to high-order harmonics. Physical Review A, 2020, 101, .	2.5	10
48	Relativistic electron bunches locked to attosecond optical field waveforms: an attosecond lightâ€“matter bound state. Laser Physics Letters, 2020, 17, 055401.	1.4	6
49	Photonic-Crystal-Fiber Quantum Probes for High-Resolution Thermal Imaging. Physical Review Applied, 2020, 13, .	3.8	9
50	Spin cat-state family for Heisenberg-limit metrology. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1021.	2.1	10
51	Optical beam shift as a vectorial pointer of curved-path geodesics: an evolution-operator perspective. Optics Express, 2020, 28, 12302.	3.4	6
52	High-energy self-mode-locked Cr:forsterite laser near the soliton blowup threshold. Optics Letters, 2020, 45, 1890.	3.3	7
53	Light and corona: guided-wave readout for coronavirus spike proteinâ€“host-receptor binding. Optics Letters, 2020, 45, 5428.	3.3	2
54	Chirp-controlled high-harmonic and attosecond-pulse generation via coherent-wake plasma emission driven by mid-infrared laser pulses. Optics Letters, 2020, 45, 750.	3.3	15

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55	Cell-specific three-photon-fluorescence brain imaging: neurons, astrocytes, and gliovascular interfaces. Optics Letters, 2020, 45, 836.	3.3	20
56	Extreme Raman red shift: ultrafast multimode nonlinear space-time dynamics, pulse compression, and broadly tunable frequency conversion. Optica, 2020, 7, 1349.	9.3	45
57	Ultraviolet-to-millimeter-band supercontinua driven by ultrashort mid-infrared laser pulses. Optica, 2020, 7, 15.	9.3	40
58	A fiber opticâ€“nanophotonic approach to the detection of antibodies and viral particles of COVID-19. Nanophotonics, 2020, 10, 235-246.	6.0	15
59	Multi-mJ mid-IR light bullets in air. EPJ Web of Conferences, 2019, 205, 01004.	0.3	1
60	Development and applications of nonlinear optical spectroscopy: 17th ECONOS/37th ECW meeting in Milan (Italy). Journal of Raman Spectroscopy, 2019, 50, 1256-1259.	2.5	1
61	High-Harmonic Probe for Relativistic Laser-Matter Interactions Driven by Ultrashort Pulses in the Mid-Infrared. , 2019, , .		0
62	Comparative Study of Harmonic Generation in Air and Argon in Light Filaments Driven by Circularly Polarized Mid-IR Pulses. , 2019, , .		0
63	Multioctave Supercontinua from Shock-Coupled Soliton Self-Compression in Hollow-Core Antiresonance-Guiding PCF. , 2019, , .		0
64	Entropy- and purity-tailored broadband entanglement from vectorial four-wave mixing: Insights from pulse modes and classical-field dynamics. Physical Review A, 2019, 100, .	2.5	1
65	Fiber-Optic Quantum Thermometry with Germanium-Vacancy Centers in Diamond. ACS Photonics, 2019, 6, 1690-1693.	6.6	26
66	Broadband quantum light on a fiber-optic platform: from biphotons and heralded single photons to bright squeezed vacuum. Laser Physics Letters, 2019, 16, 075401.	1.4	5
67	Nonlinearâ€optical stainâ€free stereoimaging of astrocytes and gliovascular interfaces. Journal of Biophotonics, 2019, 12, e201800432.	2.3	6
68	Ultrahigh-contrast cross-polarized entangled photon pairs from a strongly birefringent photonic-crystal fiber. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	5
69	Multioctave supercontinua from shock-coupled soliton self-compression. Physical Review A, 2019, 99, .	2.5	9
70	Threeâ€photonâ€resonanceâ€enhanced thirdâ€harmonic generation for labelâ€free deepâ€brain imaging: In search of a chemical contrast. Journal of Raman Spectroscopy, 2019, 50, 1296-1302.	2.5	6
71	Non-Linear Propagation of Ultrashort Mid-IR Pulses. , 2019, , .		0
72	Physics behind laser thermogenetic neurostimulation. Journal of Applied Physics, 2019, 126, 233102.	2.5	1

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73	Quantum technologies in Russia. Quantum Science and Technology, 2019, 4, 040501.	5.8	24
74	A high-N00N output of harmonically driven cavity QED. Scientific Reports, 2019, 9, 16780.	3.3	11
75	Intensity and wavelength scaling of laser-driven electron transition radiation: toward a table-top source of electromagnetic pulses. Laser Physics Letters, 2019, 16, 015401.	1.4	3
76	The whither of bacteriophytochromeâ€based nearâ€infrared fluorescent proteins: Insights from twoâ€photon absorption spectroscopy. Journal of Biophotonics, 2019, 12, e201800353.	2.3	4
77	Ultrafast nonlinear phenomena in fiber-optic photon-pair generation by ultrashort laser pulses. Laser Physics Letters, 2019, 16, 015402.	1.4	0
78	Macroscopic tripartite entanglement of nitrogen-vacancy centers in diamond coupled to a superconducting resonator. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 443.	2.1	4
79	Multioctave supercontinua and subcycle lightwave electronics [Invited]. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A168.	2.1	18
80	Laser-induced tunneling, the Kapitza effective potential, and the limits of perturbative nonlinear optics. Optics Express, 2019, 27, 8246.	3.4	5
81	Linear entropy of multiqutrit nonorthogonal states. Optics Express, 2019, 27, 8291.	3.4	7
82	High-order harmonic analysis of anisotropic petahertz photocurrents in solids. Optics Letters, 2019, 44, 1888.	3.3	15
83	Chirp-controlled filamentation and formation of light bullets in the mid-IR. Optics Letters, 2019, 44, 2173.	3.3	17
84	Stain-free subcellular-resolution astrocyte imaging using third-harmonic generation. Optics Letters, 2019, 44, 3166.	3.3	11
85	Anomalous and near-zero group-velocity dispersion in the sub-THz and mm-band atmospheric windows. Optics Letters, 2019, 44, 3170.	3.3	2
86	Background-free two-photon fluorescence readout via a three-photon charge-state modulation of nitrogen-vacancy centers in diamond. Optics Letters, 2019, 44, 3737.	3.3	12
87	Vectorial magnetic field sensing with a dual-core photonic-crystal fiber: Toward fiber-optic stereomagnetometry. AIP Conference Proceedings, 2018, , .	0.4	0
88	Optical breakdown of solids by few-cycle laser pulses. Scientific Reports, 2018, 8, 1824.	3.3	29
89	Free-beam soliton self-compression in air. Journal of Optics (United Kingdom), 2018, 20, 025504.	2.2	2
90	Generating maximally-path-entangled number states in two spin ensembles coupled to a superconducting flux qubit. Physical Review A, 2018, 97, .	2.5	19

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91	Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. ACS Photonics, 2018, 5, 765-770.	6.6	105
92	Twoâ€photon imaging of fiberâ€coupled neurons. Journal of Biophotonics, 2018, 11, e201600203.	2.3	8
93	Reconnectable fiberscopes for chronic in vivo deepâ€brain imaging. Journal of Biophotonics, 2018, 11, e201700106.	2.3	9
94	An ultraslim all-fiber microendoscope for depth-resolved imaging. Applied Physics Letters, 2018, 113, .	3.3	9
95	Enhanced-contrast optical readout in ultrafast broadband Raman quantum memories. Scientific Reports, 2018, 8, 13774.	3.3	1
96	Thermogenetic stimulation of single neocortical pyramidal neurons transfected with TRPV1-L channels. Neuroscience Letters, 2018, 687, 153-157.	2.1	6
97	Optical shock wave and photon-number conservation. Physical Review A, 2018, 98, .	2.5	8
98	Coherent Raman spectroscopy of solidâ€state broadband quantum memories. Journal of Raman Spectroscopy, 2018, 49, 1128-1135.	2.5	2
99	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
100	Witnessing quantum entanglement in ensembles of nitrogenâ€“vacancy centers coupled to a superconducting resonator. Optics Express, 2018, 26, 17849.	3.4	14
101	Filamentation of mid-IR pulses in ambient air in the vicinity of molecular resonances. Optics Letters, 2018, 43, 2185.	3.3	23
102	Analytical insights into self-phase modulation: beyond the basic theory. Optics Express, 2018, 26, 17571.	3.4	10
103	Quantum stereomagnetometry with a dual-core photonic-crystal fiber. Applied Physics Letters, 2018, 113, .	3.3	11
104	Thermodynamic limitations on the temperature sensitivity of cell-membrane ion channels: Trouble with enthalpy uncertainty. Journal of Applied Physics, 2018, 123, 224701.	2.5	3
105	Supercontinuum generation in large-mode-area photonic crystal fibers for coherent Raman microspectroscopy. , 2018, , .		2
106	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
107	Free-beam spectral self-compression at supercritical peak powers. Optics Letters, 2018, 43, 5693.	3.3	4
108	Ultrafast mid-infrared spectrochronography of dispersion near molecular absorption bands. Optics Letters, 2018, 43, 1327.	3.3	2

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109	Wavelength beam combining by spectrally selective polarization transformation. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2842.	2.1	3
110	Threeâ€dimensional fiberâ€optic readout of singleâ€neuronâ€resolved fluorescence in living brain of transgenic mice. Journal of Biophotonics, 2017, 10, 775-779.	2.3	8
111	Quantitative cognitiveâ€test characterization of reconnectable implantable fiberâ€optic neurointerfaces for optogenetic neurostimulation. Journal of Biophotonics, 2017, 10, 1485-1491.	2.3	8
112	Laser-induced filaments in the mid-infrared. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 092001.	1.5	31
113	Temporal solitons in air. Physical Review A, 2017, 95, .	2.5	18
114	Causality arguments behind closed-form description of air dispersion in the mid-infrared. Laser Physics Letters, 2017, 14, 045401.	1.4	0
115	Polarization map of correlated sideband generation in vectorial four-wave mixing. Applied Physics Letters, 2017, 110, 181108.	3.3	6
116	Power-scalable subcycle pulses from laser filaments. Scientific Reports, 2017, 7, 36263.	3.3	14
117	Thermogenetic neurostimulation with single-cell resolution. Nature Communications, 2017, 8, 15362.	12.8	55
118	Amplitude concentration in a phase-modulated spectrum due to femtosecond filamentation. Scientific Reports, 2017, 7, 43367.	3.3	7
119	Defect guidance in kagome-clad fibers: the role of photonic band gaps and self-similarity of the lattice. Laser Physics Letters, 2017, 14, 015402.	1.4	1
120	Depth-resolved subcycle dynamics of photoionization in solids. Physical Review A, 2017, 96, .	2.5	6
121	Multibeam synthesis of high-power subcycle field waveforms. Physical Review A, 2017, 96, .	2.5	2
122	The generalized Sellmeier equation for air. Scientific Reports, 2017, 7, 46111.	3.3	23
123	Nonlinear optics in the mid-infrared: new morning. Journal of Physics: Conference Series, 2017, 793, 012019.	0.4	1
124	Mapping anomalous dispersion of air with ultrashort mid-infrared pulses. Scientific Reports, 2017, 7, 2103.	3.3	5
125	Fiber-optic soliton self-compression to subcycle pulse widths in the mid-infrared. Laser Physics Letters, 2017, 14, 125401.	1.4	0
126	Phase matching as a gate for photon entanglement. Scientific Reports, 2017, 7, 46115.	3.3	5

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127	Keldysh photoionization theory: through the barriers. Physics-Uspekhi, 2017, 60, 1087-1120.	2.2	23
128	Controllable two-color dispersive wave generation in argon-filled hypocycloid-core kagome fiber. Optics Express, 2017, 25, 32972.	3.4	13
129	Mapping the electron band structure by intraband high-harmonic generation in solids. Optica, 2017, 4, 516.	9.3	152
130	Self-compression of high-peak-power mid-infrared pulses in anomalously dispersive air. Optica, 2017, 4, 1405.	9.3	37
131	Long-wavelength infrared solitons in air. Optics Letters, 2017, 42, 3614.	3.3	12
132	Modeling high-peak-power few-cycle field waveform generation by optical parametric amplification in the long-wavelength infrared. Optics Express, 2016, 24, 23207.	3.4	10
133	Fiber-optic electron-spin-resonance thermometry of single laser-activated neurons. Optics Letters, 2016, 41, 5563.	3.3	27
134	Tunneling phase time in photoionization: in search of a clock. Optica, 2016, 3, 1201.	9.3	8
135	Spatiotemporal modulation instability as off-axis parametric amplification: insights from the phase. Optics Express, 2016, 24, 20716.	3.4	10
136	A compact laser platform for nonlinear Raman microspectroscopy: multimodality through broad chirp tunability. Journal of Raman Spectroscopy, 2016, 47, 1042-1048.	2.5	6
137	Advances in nonlinear optical spectroscopies: a historical perspective of developments and applications presented at ECONOS. Journal of Raman Spectroscopy, 2016, 47, 1111-1123.	2.5	5
138	Asymptotically one-dimensional dynamics of high-peak-power ultrashort laser pulses. Journal of Optics (United Kingdom), 2016, 18, 115501.	2.2	7
139	Electron band structure detection by high-order optical harmonic generation in solids. JETP Letters, 2016, 104, 449-452.	1.4	6
140	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
141	Supercomputations and big-data analysis in strong-field ultrafast optical physics: filamentation of high-peak-power ultrashort laser pulses. Laser Physics Letters, 2016, 13, 065403.	1.4	6
142	Octave phase matching for optical parametric amplification of single-cycle pulses in the mid-infrared range. JETP Letters, 2016, 103, 167-170.	1.4	6
143	Fiber-optic vectorial magnetic-field gradiometry by a spatiotemporal differential optical detection of magnetic resonance in nitrogenâ€“vacancy centers in diamond. Optics Letters, 2016, 41, 2057.	3.3	16
144	Stimulated fluorescence quenching in nitrogenâ€“vacancy centers of diamond: temperature effects. Optics Letters, 2016, 41, 2077.	3.3	15

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145	Pulse self-compression to single-cycle pulse widths a few decades above the self-focusing threshold. Physical Review A, 2016, 94, .	2.5	30
146	X-SEA-F-SPIDER characterization of over octave spanning pulses in the infrared range. Optics Express, 2016, 24, 12713.	3.4	21
147	Generation and amplification of ultrashort mid-infrared pulses. , 2016, , .		0
148	Angle-resolved multioctave supercontinua from mid-infrared laser filaments. Optics Letters, 2016, 41, 3479.	3.3	22
149	Solid-State Source of Subcycle Pulses in the Midinfrared. Physical Review Letters, 2016, 117, 043901.	7.8	43
150	Strong-Field Photoionization as Excited-State Tunneling. Physical Review Letters, 2016, 116, 123901.	7.8	34
151	Keldysh parameter, photoionization adiabaticity, and the tunneling time. Physical Review A, 2016, 94, .	2.5	19
152	Multi-millijoule few-cycle mid-infrared pulses through nonlinear self-compression in bulk. Nature Communications, 2016, 7, 12877.	12.8	119
153	Optical attosecond pulses and tracking the nonlinear response of bound electrons. Nature, 2016, 530, 66-70.	27.8	346
154	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
155	Subterawatt few-cycle mid-infrared pulses from a single filament. Optica, 2016, 3, 299.	9.3	71
156	The Dawn of Quantum Biophotonics. , 2016, , 147-176.		3
157	Self-compression of sub-TW mid-IR pulses in transparent dielectrics and filaments generated in ambient air. , 2016, , .		1
158	A solid-state source of subcycle pulses in the mid-infrared. , 2016, , .		0
159	Fiber-optic control and thermometry of single-cell thermosensation logic. Scientific Reports, 2015, 5, 15737.	3.3	45
160	Mid-infrared laser filaments in the atmosphere. Scientific Reports, 2015, 5, 8368.	3.3	149
161	Multimodal nonlinear Raman microspectroscopy with ultrashort chirped laser pulses. JETP Letters, 2015, 101, 593-597.	1.4	4
162	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

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163	Microwave-induced thermogenetic activation of single cells. Applied Physics Letters, 2015, 106, .	3.3	22
164	A compact single cycle driver for strong field applications based on a self-compression in a Kagome fiber. , 2015, , .		0
165	Pulse-width considerations for nonlinear Raman brain imaging: whither the optimum?. Laser Physics Letters, 2015, 12, 115401.	1.4	1
166	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
167	Neurophotonics: optical methods to study and control the brain. Physics-Uspekhi, 2015, 58, 345-364.	2.2	38
168	Modal analysis of kagome-lattice structures. Laser Physics Letters, 2015, 12, 055102.	1.4	3
169	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
170	Mid-infrared-to-mid-ultraviolet supercontinuum enhanced by third-to-fifteenth odd harmonics. Optics Letters, 2015, 40, 2068.	3.3	52
171	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	3.4	45
172	New horizons of optics of the midinfrared spectral range. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.6	1
173	Ultrahigh-contrast imaging by temporally modulated stimulated emission depletion. Optics Letters, 2015, 40, 725.	3.3	14
174	Stimulated Raman gas sensing by backward UV lasing from a femtosecond filament. Optics Letters, 2015, 40, 2469.	3.3	51
175	Room-temperature magnetic gradiometry with fiber-coupled nitrogen-vacancy centers in diamond. Optics Letters, 2015, 40, 3727.	3.3	26
176	Optical phase-space modes, self-focusing, and the wavelength as tunableÄ§. Physica Scripta, 2015, 90, 128003.	2.5	6
177	Multi-millijoule Few-Optical-Cycle Pulses in Mid-IR: Scaling Power, Energy and Wavelength. , 2015, , .		2
178	250-GW Sub-Three-Cycle Multi-Millijoule Mid-IR Pulses Self-Compressed in a YAG plate. , 2015, , .		2
179	Ultrafast Photonics with Microstructures Fibers. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 153-165.	0.3	0
180	Ultrabroadband XFROG of few-cycle mid-infrared pulses by four-wave mixing in a gas. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1901.	2.1	15

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181	Pulse-width-tunable 07â€‰â€‰W mode-locked Cr: forsterite laser. Optics Letters, 2014, 39, 205.	3.3	17
182	Post-filament self-trapping of ultrashort laser pulses. Optics Letters, 2014, 39, 4659.	3.3	29
183	Strong field applications of Gigawatt self-compressed pulses from a Kagome fiber. , 2014, , .		1
184	Intense Cr:forsterite-laser-based supercontinuum source. Optics Letters, 2014, 39, 5562.	3.3	12
185	Field-Cycle-Resolved Photoionization in Solids. Physical Review Letters, 2014, 113, 133903.	7.8	38
186	Enhanced-locality fiber-optic two-photon-fluorescence live-brain interrogation. Applied Physics Letters, 2014, 104, .	3.3	4
187	Frequency-tunable sub-two-cycle 60-MW-peak-power free-space waveforms in the mid-infrared. Optics Letters, 2014, 39, 6430.	3.3	37
188	Efficient terahertz wave generation from GaP crystals pumped by chirp-controlled pulses from femtosecond photonic crystal fiber amplifier. Applied Physics Letters, 2014, 104, 031117.	3.3	18
189	Subcycle solitonic breathers. Physical Review A, 2014, 90, .	2.5	30
190	Subcycle waveform generation by nonrecolliding tunneling electron wave packets. Physical Review A, 2014, 90, .	2.5	3
191	Fiber-optic magnetic-field imaging. Optics Letters, 2014, 39, 6954.	3.3	40
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