Dmitry A Korobko

List of Publications by Year
in descending order

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102	676	516710 16	677142 22
papers	citations	h-index	g-index

105	105	105	350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-repetition-rate pulse generation and compression in dispersion decreasing fibers. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2377.	2.1	35
2	Stabilizing DFB laser injection-locked to an external fiber-optic ring resonator. Optics Express, 2020, 28, 478.	3.4	35
3	Multisoliton complexes in fiber lasers. Optical Fiber Technology, 2014, 20, 593-609.	2.7	34
4	Long-range soliton interactions through gain-absorption depletion and recovery. Optics Letters, 2015, 40, 2862.	3.3	30
5	High-frequency vector harmonic mode locking driven by acoustic resonances. Optics Letters, 2019, 44, 5112.	3.3	24
6	Self-injection-locking linewidth narrowing in a semiconductor laser coupled to an external fiber-optic ring resonator. Optics Communications, 2017, 405, 253-258.	2.1	23
7	Broadband infrared continuum generation in dispersion shifted tapered fiber. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 692.	2.1	22
8	Narrow linewidth short cavity Brillouin random laser based on Bragg grating array fiber and dynamical population inversion gratings. Results in Physics, 2018, 9, 806-808.	4.1	22
9	Dual-frequency laser comprising a single fiber ring cavity for self-injection locking of DFB laser diode and Brillouin lasing. Optics Express, 2020, 28, 37322.	3.4	21
10	Stabilization of passive harmonic mode locking in a fiber ring laser. Optics Letters, 2020, 45, 184.	3.3	21
11	Highly Nonlinear Dispersion Increasing Fiber for Femtosecond Pulse Generation. Journal of Lightwave Technology, 2015, 33, 3643-3648.	4.6	18
12	Multistage fiber preamplifier employing spectral compression for generation of high-energy laser pulses. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 239.	2.1	18
13	Stabilization of a Harmonic Mode-Locking by Shifting the Carrier Frequency. Journal of Lightwave Technology, 2021, 39, 2980-2987.	4.6	18
14	Mode-locking evolution in ring fiber lasers with tunable repetition rate. Optics Express, 2017, 25, 21180.	3.4	17
15	Detuning effects in Brillouin ring microresonator laser. Optics Express, 2020, 28, 4962.	3.4	17
16	All-fiber polarization-maintaining mode-locked laser operated at 980â€‰â€‰nm. Optics Letters, 2020, 45, 2275.	3.3	17
17	Optical amplifier with tailored dispersion for energy scaling of similaritons. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 582.	2.1	16
18	Role of cavity dispersion on soliton grouping in a fiber lasers. Optics Express, 2014, 22, 1896.	3.4	13

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19	Brillouin lasing in single-mode tapered optical fiber with inscribed fiber Bragg grating array. Results in Physics, 2018, 9, 625-627.	4.1	13
20	Distributed measurements of vibration frequency using phase-OTDR with a DFB laser self-stabilized through PM fiber ring cavity. Results in Physics, 2019, 12, 1840-1842.	4.1	13
21	Application of Dual-Frequency Self-Injection Locked DFB Laser for Brillouin Optical Time Domain Analysis. Sensors, 2021, 21, 6859.	3.8	13
22	Induced modulation instability of surface plasmon polaritons. Optics Letters, 2015, 40, 4619.	3.3	12
23	Dynamics of frequency-modulated soliton-like pulses in a longitudinally inhomogeneous, anomalous group velocity dispersion fibre amplifier. Quantum Electronics, 2012, 42, 828-833.	1.0	11
24	Formation of parabolic pulses in inhomogeneous fiber optical amplifiers. Physics of Wave Phenomena, 2013, 21, 110-117.	1.1	11
25	Infiltrated bunch of solitons in Bi-doped frequency-shifted feedback fibre laser operated at 1450â€‰nm. Scientific Reports, 2017, 7, 44194.	3.3	11
26	Generation of a broad IR spectrum and N-soliton compression in a longitudinally inhomogeneous dispersion-shifted fibre. Quantum Electronics, 2015, 45, 844-852.	1.0	10
27	Compression of femtosecond pulses in a wide wavelength range using a large-mode-area tapered fiber. Laser Physics, 2019, 29, 025104.	1.2	10
28	Pulse repetition rate tuning of a harmonically mode-locked ring fiber laser using resonant optical injection. Optics Letters, 2021, 46, 5687.	3.3	10
29	A generator of far-infrared and terahertz radiation in nonlinear metamaterials exhibiting negative index of refraction. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 822-831.	0.6	9
30	Modulation instability and short-pulse generation in media with relaxing Kerr nonlinearity and high self-steepening. Quantum Electronics, 2014, 44, 42-47.	1.0	9
31	Generation of 2â€Î¼m radiation due to single-mode fibers with longitudinally varying diameter. Optical Fiber Technology, 2019, 47, 38-42.	2.7	8
32	Resonantly induced mitigation of supermode noise in a harmonically mode-locked fiber laser: revealing the underlying mechanisms. Optics Express, 2022, 30, 17243.	3.4	8
33	Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber. Quantum Electronics, 2015, 45, 26-34.	1.0	7
34	Tunnelling of frequency-modulated wavepackets in photonic crystals with amplification. Journal of Optics (United Kingdom), 2016, 18, 015102.	2.2	7
35	Theory of multiple scattering in a fractal medium. Technical Physics Letters, 1999, 25, 435-437.	0.7	6
36	Modulation instability of pulsed radiation in an optical waveguide in the presence of the traveling refractive index wave. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 256-262.	0.6	6

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37	Fiber Lasers of Prof. Okhotnikov: Review of the Main Achievements and Breakthrough Technologies. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-14.	2.9	6
38	Mitigation of the supermode noise in a harmonically mode-locked ring fiber laser using optical injection. Optics Letters, 2021, 46, 5747.	3.3	6
39	Modified mandelbrot algorithm for stochastic analysis of a fractal-type distribution of galaxies. Russian Physics Journal, 1997, 40, 711-716.	0.4	5
40	Analysis of steady bound soliton-state attributes in hybrid mode-locked fiber laser. Laser Physics Letters, 2016, 13, 105103.	1.4	5
41	Multistage Fiber Amplifier with Spectral Compression Elements for High-Energy Laser Pulse Generation. Journal of Russian Laser Research, 2016, 37, 448-458.	0.6	5
42	Evolution of surface plasmonâ€“polariton wave in a thin metal film: The modulationâ€instability effect. Annalen Der Physik, 2017, 529, 1600167.	2.4	5
43	Fractal properties of clusters generated by branching processes. Journal of Mathematical Sciences, 1998, 92, 3940-3948.	0.4	4
44	Fractal model of transport: Low-angle approximation. Technical Physics, 2004, 49, 532-539.	0.7	4
45	Cross modulation instability in normal-dispersion fibre lasers and amplifiers. Quantum Electronics, 2014, 44, 345-352.	1.0	4
46	Fibre laser system providing generation of frequency-modulated pulses with a spectral width exceeding the gain linewidth. Quantum Electronics, 2016, 46, 1092-1096.	1.0	4
47	Frequency locking of a semiconductor laser by a ring fibre resonator. Quantum Electronics, 2017, 47, 871-876.	1.0	4
48	A Fiber-Optic System Generating Pulses of High Spectral Density. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	4
49	Direction-dependent propagation of high-power femtosecond pulses through a large-mode-area tapered fiber. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1681.	2.1	4
50	Amplification of chirped pulses in inhomogeneous three-level active optical fibers. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 260-265.	0.6	3
51	Parametric wave interaction in media exhibiting quadratic and cubic nonlinearities under high-frequency pumping conditions. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	3
52	Propagation of frequency-modulated pulses in active one-dimensional photonic crystals. Quantum Electronics, 2015, 45, 136-142.	1.0	3
53	Frequency modulation of semiconductor disk laser pulses. Quantum Electronics, 2015, 45, 628-634.	1.0	3
54	Generation of subpicosecond pulses due to the development of modulation instability of whispering-gallery-mode wave packets in an optical waveguide with a travelling refractive-index wave. Quantum Electronics, 2018, 48, 818-822.	1.0	3

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55	A Laser Complex with a Central Wavelength of 1.55 Î¼m for Generation of Pulses with Energy Exceeding 1 Î¼J and a Supercontinuum Spanning a Nearly Two-Octave Range. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Over		
56	Amplifier similariton fiber laser with hybrid-mode-locking technique. Optics Express, 2021, 29, 34977-34985.	3.4	3
57	Brillouin-like amplification in rare-earth-doped optical fibers. Optics Express, 2021, 29, 40345.	3.4	3
58	Dynamics of optical pulses in waveguides with a large self-steepening parameter. Quantum Electronics, 2013, 43, 1029-1036.	1.0	2
59	Parabolic pulse generation in short fiber amplifiers. Journal of Optics (United Kingdom), 2019, 21, 105505.	2.2	2
60	Fiber laser for application in phase sensitive optical time domain reflectometry. , 2018, , .		2
61	Generation of Subpicosecond Pulse Trains in Fiber Cascades Comprising a Cylindrical Waveguide with Propagating Refractive Index Wave. Photonics, 2021, 8, 484.	2.0	2
62	On the existence of a nonzero mass density for a fractal set of independent pointlike masses with a power-type distribution. Journal of Mathematical Sciences, 1998, 92, 4097-4103.	0.4	1
63	A multistage fiber amplifier with a decreased rate of frequency modulation of amplified pulses. Laser Physics, 2013, 23, 095111.	1.2	1
64	Amplifier similariton laser with extra-broad bandwidth output pulse. Laser Physics Letters, 2016, 13, 035106.	1.4	1
65	Generation of light and dark soliton trains in a dissipative four-wave mixing, mode-locked fibre ring laser. Quantum Electronics, 2018, 48, 129-135.	1.0	1
66	Analysis of a sub-nanosecond pulses frequency modulation using the tunable fiber Bragg grating. , 2018, , .		1
67	Subpicosecond pulse generation above 2 Î¼m in longitudinally inhomogeneous single-mode fibres. Quantum Electronics, 2018, 48, 813-817.	1.0	1
68	Cost-effective laser source for phase-OTDR vibration sensing. , 2018, , .		1
69	Jitter suppression in passive harmonic mode-locking fiber ring laser. , 2020, , .		1
70	THz pulse train generation through ultrafast development of surface plasmon-polariton modulation instability. Journal of Optics (United Kingdom), 0, , .	2.2	1
71	Amplification of frequency-modulated pulses in graded dispersion erbium-doped optical fibers. Technical Physics Letters, 2012, 38, 1020-1023.	0.7	0
72	Generation of radiation in tunnel-coupled waveguides with positive and negative refractive indices. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 299-304.	0.6	0

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73	Cascade scheme of FM pulse amplification in length-inhomogeneous active waveguides with normal dispersion. , 2013, , .		0
74	Dynamics of the wave packet in a tunnel-coupled structure consisting of amplifying right-handed and absorbing left-handed media. Technical Physics, 2013, 58, 1194-1200.	0.7	0
75	Generation of pulse trains with high-repetition-rate in anomalous dispersion decreasing fibers. , 2014, , .		0
76	Microwave generator based on tunnel-coupled semiconductor-metamaterial structure. Technical Physics, 2014, 59, 564-570.	0.7	0
77	Generation of pulse trains with high-repetition-rate in anomalous dispersion decreasing fibers. , 2014, , .		0
78	Induced modulation instability of surface plasmon polaritons in a layer structure of subwavelength thickness. , 2016, , .		0
79	Optical fiber amplifier with spectral compression elements for high-power laser pulse generation. , 2016, , .		0
80	Advanced scheme of amplifier similariton laser. , 2016, , .		0
81	Induced modulation instability of surface plasmon polaritons in an ultra-thin metal film. , 2016, , .		0
82	Cascade amplification scheme with control of the amplified pulse spectral width. Journal of Optics (India), 2016, 45, 240-246.	1.7	0
83	Generation of intensive surface plasmon polariton pulses due to the induced modulation instability effect. , 2017, , .		0
84	Generation of wide spectrum and pedestal-free pulse compression in highly nonlinear dispersion increasing fiber. Proceedings of SPIE, 2017, , .	0.8	0
85	Laser-induced generation of surface periodic structures in media with nonlinear diffusion. Physics of the Solid State, 2017, 59, 2313-2320.	0.6	0
86	Pulse Train Generation in Fiber Lasers with Tunable Repetition Rate. , 2017, , .		0
87	New multisoliton complex in Bi-doped fiber laser operated at 1450 nm. , 2017, , .		0
88	Dynamics of a Wave Packet of Whispering-Gallery-Mode Type in an Optical Waveguide in the Presence of a Traveling Refractive-Index Wave. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 13	0.6	0
89	Long-wavelength spectral filtering in anisotropic tapered fiber. Results in Physics, 2018, 11, 512-514.	4.1	0
90	Generation of high-power laser pulses using nonlinear spectral compression. , 2018, , .		0

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91	Short cavity Tunable Brillouin Random Laser. , 2018, , .		0
92	Spectral compression in ring similariton fiber laser. Laser Physics Letters, 2019, 16, 035107.	1.4	0
93	Generation of parabolic laser pulses in short fibre amplifiers. Quantum Electronics, 2019, 49, 925-930.	1.0	0
94	Effect of frequency detuning on Brillouin lasing in microcavities. Quantum Electronics, 2020, 50, 284-290.	1.0	0
95	Statistical Analysis of Radiation-Induced Dynamics of Cancer Cell Transcriptome Using Dna-Microarray Data. Mathematical Biology and Bioinformatics, 2013, 8, 520-528.	0.6	0
96	High-power femtosecond pulse propagation in a tapered large-mode-area optical fiber. , 2018, , .		0
97	Generation of dark soliton trains with high repetiton rates through dissipative four wave mixing. , 2018, , .		0
98	Modeling of a semiconductor laser coupled to an external fiberoptic ring resonator. , 2018, , .		0
99	Cost-effective solution for phase-OTDR distributed acoustic/vibration sensing. , 2019, , .		0
100	Non-resonant operation of microcavity Brillouin lasers. , 2019, , .		0
101	Generation of Raman solitons with minimal losses for dispersion radiation due to longitudinally nonuniform fiber. , 2019, , .		0
102	Modeling mode-locked Bismuth laser for soliton generation in the normal and anomalous dispersion regime. , 2020, , .		0