Popov Sergei

List of Publications by Year
in descending order

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112 papers	3,565 citations	186209 28 h-index	133188 59 g-index
112 all docs	112 docs citations	112 times ranked	2362 citing authors

#	Article	IF	Citations
1	Tunable Q-switched fiber laser based on saturable edge-state absorption in few-layer molybdenum disulfide (MoS_2). Optics Express, 2014, 22, 31113.	1.7	310
2	Tm-doped fiber laser mode-locked by graphene-polymer composite. Optics Express, 2012, 20, 25077.	1.7	272
3	Solution processed MoS2-PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er:fiber laser. Nano Research, 2015, 8, 1522-1534.	5.8	256
4	Zero-dispersion wavelength decreasing photonic crystal fibers for ultraviolet-extended supercontinuum generation. Optics Express, 2006, 14, 5715.	1.7	230
5	Optophysiology: Depth-resolved probing of retinal physiology with functional ultrahigh-resolution optical coherence tomography. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5066-5071.	3.3	219
6	Continuous-wave, high-power, Raman continuum generation in holey fibers. Optics Letters, 2003, 28, 1353.	1.7	144
7	29 W High power CW supercontinuum source. Optics Express, 2008, 16, 5954.	1.7	144
8	Watts-level frequency doubling of a narrow line linearly polarized Raman fiber laser to 589 nm. Optics Express, 2005, 13, 6772.	1.7	143
9	Nanosecond-pulse fiber lasers mode-locked with nanotubes. Applied Physics Letters, 2009, 95, .	1.5	130
10	Extended blue supercontinuum generation in cascaded holey fibers. Optics Letters, 2005, 30, 3132.	1.7	102
11	Generation and direct measurement of giant chirp in a passively mode-locked laser. Optics Letters, 2009, 34, 3526.	1.7	94
12	Multispectral in vivo three-dimensional optical coherence tomography of human skin. Journal of Biomedical Optics, 2010, 15, 026025.	1.4	94
13	Optical coherence tomography using a continuous-wave, high-power, Raman continuum light source. Optics Express, 2004, 12, 5287.	1.7	91
14	Narrow-line, 1178nm CW bismuth-doped fiber laser with 6.4W output for direct frequency doubling. Optics Express, 2007, 15, 5473.	1.7	87
15	Optical pulse compression in dispersion decreasing photonic crystal fiber. Optics Express, 2007, 15, 13203.	1.7	87
16	Bismuth fiber integrated laser mode-locked by carbon nanotubes. Laser Physics Letters, 2010, 7, 790-794.	0.6	74
17	Using the E22 transition of carbon nanotubes for fiber laser mode-locking. Laser Physics Letters, 2011, 8, 144-149.	0.6	74
18	Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. Optics Express, 2013, 21, 23261.	1.7	74

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19	High brightness picosecond all-fiber generation in 525-1800nm range with picosecond Yb pumping. Optics Express, 2005, 13, 377.	1.7	66
20	Passive synchronization of all-fiber lasers through a common saturable absorber. Optics Letters, 2011, 36, 3984.	1.7	65
21	Ultrafast Raman laser mode-locked by nanotubes. Optics Letters, 2011, 36, 3996.	1.7	60
22	All-Fiber Format Compression of Frequency Chirped Pulses in Air-Guiding Photonic Crystal Fibers. Physical Review Letters, 2004, 93, 103901.	2.9	51
23	Extended continuous-wave supercontinuum generation in a low-water-loss holey fiber. Optics Letters, 2005, 30, 1938.	1.7	44
24	Temporal and noise characteristics of continuous-wave-pumped continuum generation in holey fibers around 1300nm. Applied Physics Letters, 2004, 85, 2706-2708.	1.5	42
25	21 Âµm continuous-wave Raman laser in GeO_2 fiber. Optics Letters, 2007, 32, 1848.	1.7	35
26	Role of pump coherence in the evolution of continuous-wave supercontinuum generation initiated by modulation instability. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 502.	0.9	29
27	Harmonic and single pulse operation of a Raman laser using graphene. Laser Physics Letters, 2012, 9, 223-228.	0.6	28
28	Fiber grating compression of giant-chirped nanosecond pulses from an ultra-long nanotube mode-locked fiber laser. Optics Letters, 2015, 40, 387.	1.7	28
29	Short-pulse, all-fiber, Raman laser with dispersion compensation in a holey fiber. Optics Letters, 2003, 28, 1891.	1.7	27
30	20-kW peak power all-fiber 157-Âµm source based on compression in air-core photonic bandgap fiber, its frequency doubling, and broadband generation from 430 to 1450 nm. Optics Letters, 2005, 30, 436.	1.7	26
31	Scalar Nanosecond Pulse Generation in a Nanotube Mode-Locked Environmentally Stable Fiber Laser. IEEE Photonics Technology Letters, 2014, 26, 1672-1675.	1.3	24
32	Long wavelength extension of CW-pumped supercontinuum through soliton-dispersive wave interactions. Optics Express, 2010, 18, 24729.	1.7	23
33	7W average power, high-beam-quality green generation in MgO-doped stoichiometric periodically poled lithium tantalate. Applied Physics Letters, 2004, 85, 3026-3028.	1.5	21
34	Ytterbium gain band self-induced modulation instability laser. Optics Letters, 2006, 31, 167.	1.7	21
35	CW-pumped short pulsed 1.12 Î¼m Raman laser using carbon nanotubes. Laser Physics Letters, 2013, 10, 015101.	0.6	21
36	Stimulated Brillouin scattering of visible light in small-core photonic crystal fibers. Optics Letters, 2014, 39, 2330.	1.7	21

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37	Efficient continuous-wave holey fiber Raman laser. Applied Physics Letters, 2005, 87, 031106.	1.5	20
38	Continuous Wave Supercontinuum Generation Through Pumping in the Normal Dispersion Region for Spectral Flatness. IEEE Photonics Technology Letters, 2012, 24, 1325-1327.	1.3	20
39	Q-switched Fiber Laser with MoS2 Saturable Absorber. , 2014, , .		19
40	Duration-tunable picosecond source at 560â€‰â€‰nm with watt-level average power. Optics Letters, 2015, 40, 3085.	1.7	19
41	Widely tunable polarization maintaining photonic crystal fiber based parametric wavelength conversion. Optics Express, 2013, 21, 15826.	1.7	18
42	Ultrafast fibre laser sources: Examples of recent developments. Optical Fiber Technology, 2014, 20, 666-677.	1.4	16
43	Fiber-integrated frequency-doubling of a picosecond Raman laser to 560 nm. Optics Express, 2015, 23, 15728.	1.7	15
44	Radiation-hard KS-4V glass and optical fiber, manufactured on its basis, for plasma diagnostics in ITER. Plasma Devices and Operations, 2004, 12, 1-9.	0.6	13
45	Broadband, low intensity noise CW source for OCT at 1800nm. Optics Communications, 2008, 281, 154-156.	1.0	13
46	Synchronously pumped photonic crystal fiber-based optical parametric oscillator. Optics Letters, 2012, 37, 3156.	1.7	13
47	Second-harmonic generation to the green and yellow using picosecond fiber pump sources and periodically poled waveguides. Applied Physics Letters, 2006, 88, 071113.	1.5	12
48	High-peak-power femtosecond pulse compression with polarization-maintaining ytterbium-doped fiber amplification. Optics Letters, 2007, 32, 1199.	1.7	12
49	All-fiber integrated 10ÂGHz repetition rate femtosecond laser source based on Raman compression of pulses generated through spectral masking of a phase-modulated diode. Optics Letters, 2012, 37, 3099.	1.7	12
50	Femtosecond pulses at 20 GHz repetition rate through spectral masking of a phase modulated signal and nonlinear pulse compression. Optics Express, 2013, 21, 5671.	1.7	12
51	Amplification of picosecond pulses and gigahertz signals in bismuth-doped fiber amplifiers. Optics Letters, 2011, 36, 1446.	1.7	10
52	Picosecond bismuth-doped fiber MOPFA for frequency conversion. Optics Letters, 2011, 36, 3792.	1.7	10
53	Nanosecond Pulse Generation in Lumped Normally Dispersive All-Fiber Mode-Locked Laser. IEEE Photonics Technology Letters, 2011, 23, 1379-1381.	1.3	9
54	Fiber-integrated 780 nm source for visible parametric generation. Optics Express, 2014, 22, 29726.	1.7	7

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55	Narrow Linewidth Bismuth-Doped All-Fiber Ring Laser. IEEE Photonics Technology Letters, 2010, 22, 793-795.	1.3	6
56	Characterization of nonlinear saturation and mode-locking potential of ionically-doped colored glass filter for short-pulse fiber lasers. Optics Express, 2013, 21, 12562.	1.7	5
57	Electron-beam-induced absorption in quartz glasses. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rgBT /Over	0.2	4
58	High-power completely fiber integrated super-continuum sources (Invited Paper). , 2005, , .		4
59	Stable Gain-Guided Soliton Propagation in a Polarized Yb-Doped Mode-Locked Fiber Laser. IEEE Photonics Journal, 2012, 4, 1058-1064.	1.0	4
60	High power fibre integrated sources. , 2006, , .		4
61	Non-linear applications of microstructured optical fibres. Optical and Quantum Electronics, 2007, 39, 963-974.	1.5	3
62	1.5-2 Âµm, multi-Watt white-light generation in CW format in highly-nonlinear fibres. , 2004, , .		3
63	‹title›E-beam-induced absorption in various grades of quartz‹/title›. , 2004, , .		2
64	Compact fully fibre integrated source of 100â€…fs pulses at 1.1â€…[micro sign]m based on compression in holey fibre. Electronics Letters, 2005, 41, 234.	0.5	2
65	Optimizing penetration depth, contrast, and resolution in 3D dermatologic OCT. , 2010, , .		2
66	Femtosecond pulse compression in air-guiding PCF. , 2004, , .		2
67	Mode-locking by nanotubes of a Raman laser based on a highly doped GeO2 fiber. , 2012, , .		2
68	All-fibre, 2ps Yb laser with 60kW peak power. , 2004, , 163.		1
69	Operation Limits of Flux-grown PPKTP and Stoichiometric PPLT for High Power SHG around 775nm. , 2005, , TuB25.		1
70	High brightness polychromatic visible generation in photonic crystal fibers with picosecond Yb pumping. , 2005, , .		1
71	Multi-watt average power 388 nm UV generation through frequency quadrupling of Yb/Er fiber laser sources. , 2005, , .		1
72	Red picosecond pulses generated by frequency doubling a Raman amplified widely tunable 1.3 Âµm fiber ring laser. Optics Letters, 2005, 30, 2769.	1.7	1

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73	Multi-watt supercontinuum generation from 0.3 to 2.4 μm in PCF tapers. , 2007, , .		1
74	Fibre integrated femtosecond sources based on soliton generation from CW noise. Electronics Letters, 2007, 43, 207.	0.5	1
75	Nonlinear optics and frequency conversion: fiber lasers in IR, VIS and UV. , 2007, , .		1
76	Pulse Compression in Dispersion Decreasing Photonic Crystal Fiber. , 2007, , .		1
77	2W/nm peak-power all-fiber supercontinuum source and its application to the characterization of periodically poled non-linear crystals. Optics Communications, 2007, 277, 134-137.	1.0	1
78	Mode-locking fibre lasers with the E<inf>22</inf> transition of carbon nanotubes. , 2009, , .		1
79	Generation of high frequency trains of chirped soliton-like pulses in inhomogeneous and cascaded active fiber configurations. Optics Communications, 2018, 426, 333-340.	1.0	1
80	Nanotube-based passively mode-locked Raman laser. , 2011, , .		1
81	Nanotube mode-locked, low repetition rate pulse source for fiber-based supercontinuum generation at low average pump power. , 2014, , .		1
82	Synchronously coupled fiber lasers and sum frequency generation using graphene composites. , 2014, , .		1
83	25W average-power, second-harmonic-generation of a linearly-polarized Er fiber source in PPKTP and its application for tandem harmonic generation in UV. , 2004, , 155.		0
84	All-fiber CW Raman continuum light source for ultrahigh resolution optical coherence tomography. , 2005, , .		0
85	Continuous wave four wave mixing in a holey fiber with two zero dispersion wavelengths using a fiber integrated configuration. , 2005, , .		0
86	High efficiency continuous-wave Holey-fiber Raman laser. , 2005, , .		0
87	Optophysiology using functional ultrahigh resolution OCT: from in vitro animal to in vivo human measurements. , 2006, 6138, 78.		0
88	Blue light generation in holey fibre using frequency doubled fibre pump source. Electronics Letters, 2006, 42, 200.	0.5	0
89	6.4W, Narrow-line CW Bismuth-doped Fiber Laser for Frequency Doubling to 590nm. , 2007, , .		0
90	Broadband, Low Intensity Noise Source for Optical Coherence Tomography at 1.8μm. , 2007, , .		0

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91	2.1 μm CW Raman source in GeO₂ fiber. , 2007, , .		0
92	High power 29 W CW supercontinuum source. Proceedings of SPIE, 2008, , .	0.8	0
93	2 ns pulses from a fibre laser mode-locked by carbon nanotubes. , 2009, , .		0
94	Bismuth-Doped Fiber Integrated Ring Laser Mode-Locked with a Nanotube-Based Saturable Absorber. , 2010, , .		0
95	Noise and Stability in Giant-Chirp Oscillators Mode-Locked with a Nanotube-Based Saturable Absorber. , 2010, , .		0
96	Giant chirp oscillators: Modeling and experiment. , 2010, , .		0
97	Narrow-Line All-Fiber Bismuth Ring Laser. , 2010, , .		0
98	Soliton-dispersive wave collisions in high average power supercontinuum generation. , 2010, , .		0
99	Nanotube-based passively mode-locked Ytterbium-pumped Raman laser. , 2011, , .		0
100	High average power supercontinuum sources. , 2011, , .		0
101	2 to 3 Âµm Raman-soliton continuum enabled by a nanotube mode-locked Tm-doped MOPFA. , 2013, , .		0
102	Compact and broadly tunable near-visible parametric wavelength converter based on polarization-maintaining photonic-crystal fiber. , 2013, , .		0
103	Fiber-integrated second harmonic generation modules for visible and near-visible picosecond pulse generation. Proceedings of SPIE, 2015, , .	0.8	0
104	A 20kW Peak Power, Air-core, Ultrashort Pulse Fibre Source with Extensive Wavelength Conversion. , 2005, , .		0
105	7W Average Power, Green Generation in MgO -doped Stoichiometric PPLT with Yb Laser Pumping. , 2005, , .		0
106	CW-pumped, High Power, Extended Supercontinuum Generation in Low Water-loss PCF. , 2005, , .		0
107	High brightness, visible to infrared picosecond generation with all-fibre format Yb laser. , 2005, , .		0
108	Extension of Supercontinuum Generation to the Blue in Cascaded Holey Fibers. , 2006, , .		0

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109	High Power CW Pumped Supercontinuum Sources. , 2008, , .		0
110	High Power Supercontinuum Sources. , 2010, , .		0
111	Gigahertz Repetition Rate Ultrashort Pulses Through Phase Modulation, Spectral Masking and Fibre Nonlinearity. , 2012, , .		0
112	Visible Light Stimulated Brillouin Scattering in Small-Core Photonic Crystal Fibers. , 2014, , .		0