

Grigorii S Sokolovskii

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Turn-on delay in the mid-infrared quantum-cascade lasers: experiment and numerical simulations. , 2021, , .		0
2	Conical refraction with generalized Bessel-Gaussian beams. , 2021, , .		1
3	Cascaded Second Harmonic Generation with a Half-Order Periodical Orientation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 1851-1856.	0.6	1
4	Close relationship between Bessel-Gaussian and conical refraction beams. Optics Express, 2020, 28, 33900.	3.4	8
5	Photonic crystal waveguide for second harmonic generation: exact solution. Journal of Physics: Conference Series, 2020, 1697, 012068.	0.4	0
6	Conical refraction mode of an optical resonator. Optics Letters, 2020, 45, 1317.	3.3	3
7	Gain Switching of the Broad-Stripe InAs/GaAs Quantum Dot Lasers. , 2020, , .		0
8	The Effect of Active Region Heating on Dynamic and Power Characteristics of Quantum Cascade Lasers Emitting at a Wavelength of 4.8 μm at Room Temperature. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT 00 Overlock 00 Tf 50 45		0
9	Room Temperature Lasing of Single-Mode Arched-Cavity Quantum-Cascade Lasers. Technical Physics Letters, 2019, 45, 398-400.	0.7	17
10	Two-dimensional waveguide for efficient second-harmonic generation in visible range. Journal of Physics: Conference Series, 2019, 1400, 066049.	0.4	0
11	Conical Refraction with Laguerre-Gaussian Beams: From Raman Spot to "Anti-Raman" Doughnut Distribution. , 2019, , .		0
12	Generation of Droplet Quasi-Bessel Beams Using a Semiconductor Laser. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 848-853.	0.6	5
13	Conical refraction output from a Nd:YVO ₄ laser with an intracavity conerefringent element. Optics Letters, 2019, 44, 642.	3.3	9
14	High power Nd:YVO-KGW conical refraction laser. , 2019, , .		2
15	Conical refraction lasing in a Nd:YVO ₄ laser with a conerefringent KGW element. , 2019, , .		0
16	Conical refraction with low-coherence light sources. Optics Express, 2019, 27, 25428.	3.4	6
17	Dual-band generation around 8 μm by quantum cascade lasers in wide temperature range. Journal of Physics: Conference Series, 2018, 1135, 012073.	0.4	1
18	Generation of Droplet Bessel Beams Using a Semiconductor Laser. Technical Physics Letters, 2018, 44, 887-889.	0.7	3

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19	3D laser nano-printing on fibre paves the way for super-focusing of multimode laser radiation. Scientific Reports, 2018, 8, 14618.	3.3	18
20	Turn-on Dynamics of Quantum Cascade Lasers with a Wavelength of 8100 nm at Room Temperature. Technical Physics, 2018, 63, 1656-1658.	0.7	11
21	Dual-Frequency Generation in Quantum Cascade Lasers of the 8- μ m Spectral Range. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2018, 125, 402-404.	0.6	24
22	Temperature effects on optical properties and efficiency of red AlGaInP-based light emitting diodes under high current pulse pumping. Journal of Applied Physics, 2018, 124, .	2.5	11
23	Conical refraction of a high-M2 laser beam. , 2017, , .		2
24	Generation of High-Power Ultrashort Optical Pulses Using a Semiconductor Laser with Controlled Current Pumping. Technical Physics, 2017, 62, 1885-1888.	0.7	1
25	Peaking of Optical Pulses in Vertical-Cavity Surface-Emitting Lasers with an Active Region Based on Submonolayer InGaAs Quantum Dots. Technical Physics Letters, 2017, 43, 1099-1101.	0.7	1
26	Drag coefficient of solid micro-sphere between parallel plates. Journal of Physics: Conference Series, 2016, 769, 012084.	0.4	2
27	Metamaterial for the second harmonic generation. , 2016, , .		0
28	A novel type of quasi-phasematching for the second harmonic generation. Journal of Physics: Conference Series, 2016, 769, 012050.	0.4	4
29	Generation of high-power ultrashort optical pulses by semiconductor lasers. Technical Physics Letters, 2016, 42, 1159-1162.	0.7	3
30	Study of particle drag force in a channel for optical trapping applications. , 2016, , .		0
31	Metamaterial for efficient second harmonic generation. Technical Physics Letters, 2016, 42, 1041-1044.	0.7	7
32	Fractional order of poling period for broadly tunable second harmonic generation. , 2016, , .		0
33	Slow passage through thresholds in quantum dot lasers. Physical Review E, 2016, 94, 052208.	2.1	6
34	AlGaInP red-emitting light emitting diode under extremely high pulsed pumping. Proceedings of SPIE, 2016, , .	0.8	6
35	White Light Generation in a Diode-Pumped PPKTP Waveguide. , 2016, , .		2
36	17th Russian Youth Conference on Physics and Astronomy (PhysicA.SPb/2014). Journal of Physics: Conference Series, 2015, 661, 011001.	0.4	0

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37	Dropout dynamics in pulsed quantum dot lasers due to mode jumping. Applied Physics Letters, 2015, 106, 261103.	3.3	5
38	Optical trapping with superfocused high-M ² laser diode beam. Proceedings of SPIE, 2015, , .	0.8	1
39	Impact of the carrier relaxation paths on two-state operation in quantum dot lasers. , 2015, , .		0
40	Quantum dot semiconductor disk laser at 13 μ m. Optics Letters, 2015, 40, 3400.	3.3	8
41	574–647 nm wavelength tuning by second-harmonic generation from diode-pumped PPKTP waveguides. Optics Letters, 2015, 40, 835.	3.3	18
42	Study of a novel type of the optical modes in VCSELs. Journal of Physics: Conference Series, 2014, 572, 012044.	0.4	0
43	Superfocusing of high-M ² semiconductor laser beams: experimental demonstration. , 2014, , .		2
44	Hsp70 and ceramide release by diode laser-treated mouse skin cells in vivo. Journal of Physics: Conference Series, 2014, 572, 012017.	0.4	2
45	Efficient generation of orange light by frequency-doubling of a quantum-dot laser radiation in a PPKTP waveguide. Proceedings of SPIE, 2014, , .	0.8	0
46	Efficient yellow-green light generation at 561 nm by frequency-doubling of a QD-FBG laser diode in a PPLN waveguide. Optics Letters, 2014, 39, 6672.	3.3	23
47	Laser beams with conical refraction patterns. Proceedings of SPIE, 2014, , .	0.8	13
48	The effect of slow passage in the pulse-pumped quantum dot laser. , 2014, , .		1
49	Manipulation of microparticles using Bessel beams from semiconductor lasers. Technical Physics Letters, 2014, 40, 475-478.	0.7	7
50	73 nm wavelength tuning from a frequency-doubled quantum-dot laser in PPKTP waveguides. , 2014, , .		0
51	Optical trapping with Bessel beams generated from semiconductor lasers. Journal of Physics: Conference Series, 2014, 572, 012039.	0.4	15
52	Optical trapping with Bessel beams generated from semiconductor lasers. , 2014, , .		0
53	Influence of the axicon characteristics and beam propagation parameter M ² on the formation of Bessel beams from semiconductor lasers. Quantum Electronics, 2013, 43, 423-427.	1.0	22
54	InAs/AlSb widely tunable external cavity quantum cascade laser around 3.2 μ m. Applied Physics Letters, 2013, 102, 011124.	3.3	31

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55	Turn-on delay of QD and QW laser diodes: What is the difference?. Journal of Physics: Conference Series, 2013, 461, 012030.	0.4	2
56	High-speed photodiodes for the mid-infrared spectral region 1.2–2.4 μ m based on GaSb/GaInAsSb/GaAlAsSb heterostructures with a transmission band of 2–5 GHz. Semiconductors, 2013, 47, 1103-1109.	0.5	13
57	Orange-to-red tunable picosecond pulses by frequency doubling in a diode-pumped PPKTP waveguide. Optics Letters, 2013, 38, 2835.	3.3	19
58	Conical Refraction: New observations and a dual cone model. Optics Express, 2013, 21, 11125.	3.4	44
59	Second harmonic generation in a low-loss orientation-patterned GaAs waveguide. Optics Express, 2013, 21, 16424.	3.4	10
60	Generation of tunable visible picosecond pulses by frequency-doubling of a quantum-dot laser in a PPKTP waveguide. Proceedings of SPIE, 2013, , .	0.8	0
61	Blue-to-red tunable SHG from a diode-pumped PPKTP waveguide. , 2013, , .		0
62	Highly efficient SHG at 561 nm using a QD laser and a PPLN waveguide. , 2013, , .		0
63	Conical refraction: A dual-cone model. , 2013, , .		0
64	15th Russian Youth Conference on Physics and Astronomy (PhysicA.SPb). Journal of Physics: Conference Series, 2013, 461, 011001.	0.4	0
65	Green-to-red tunable SHG of a quantum-dot laser in a PPKTP waveguide. Laser Physics Letters, 2012, 9, 790-795.	1.4	26
66	Flexible particle manipulation techniques with conical refraction-based optical tweezers. , 2012, , .		8
67	Non-diffracting beams from surface-emitting lasers. Proceedings of SPIE, 2012, , .	0.8	3
68	Effect of gain saturation on the current-power characteristic of semiconductor laser. Technical Physics Letters, 2012, 38, 613-615.	0.7	2
69	Nonvanishing turn-on delay in quantum dot lasers. Applied Physics Letters, 2012, 100, 081109.	3.3	15
70	Superfocusing of multimode semiconductor lasers and light-emitting diodes. Technical Physics Letters, 2012, 38, 402-404.	0.7	11
71	High power Bessel beams from EP-VECSELs. Proceedings of SPIE, 2011, , .	0.8	6
72	Study of non-diffracting light beams from broad-stripe edge-emitting semiconductor lasers. Technical Physics Letters, 2010, 36, 9-12.	0.7	18

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73	Fast-response p-i-n photodiodes for 0.9–2.4 μm wavelength range. Technical Physics Letters, 2010, 36, 412-414.	0.7	3
74	10.1007/s11455-008-3003-5. , 2010, 34, 187.		0
75	Efficient THz radiation from a nanocrystalline silicon-based multi-layer photomixer. Semiconductor Science and Technology, 2009, 24, 095025.	2.0	6
76	Generation of TE modes in semiconductor vertical-cavity surface-emitting lasers. Technical Physics Letters, 2009, 35, 1133-1136.	0.7	2
77	Generation of propagation-invariant light beams from semiconductor light sources. Technical Physics Letters, 2008, 34, 1075-1078.	0.7	24
78	Novel materials GaInAsPSb/GaSb and GaInAsPSb/InAs for room-temperature optoelectronic devices for a 3–5 μm wavelength range (GaInAsPSb/GaSb and GaInAsPSb/InAs for 3–5 μm). Semiconductor Science and Technology, 2008, 23, 125026.	2.0	5
79	Self-sustained pulsation in the oxide-confined vertical-cavity surface-emitting lasers based on submonolayer InGaAs quantum dots. Applied Physics Letters, 2007, 91, 121106.	3.3	13
80	Self-ordering of Mg and O isoelectronic impurities in ZnSe. Semiconductors, 2007, 41, 125-129.	0.5	2
81	Anomalous dynamic characteristics of semiconductor quantum-dot lasers generating on two quantum states. Technical Physics Letters, 2007, 33, 4-7.	0.7	12
82	Phase effects in broad-stripe curved-grating distributed feedback heterolasers. Technical Physics Letters, 2007, 33, 292-294.	0.7	1
83	247nm solar-blind ultraviolet p-i-n photodetector. Journal of Applied Physics, 2006, 100, 096104.	2.5	19
84	Self-assembling of zinc and tellurium impurities in zinc-blende MgS. Technical Physics Letters, 2006, 32, 818-820.	0.7	1
85	VCSELs based on arrays of sub-monolayer InGaAs quantum dots. Semiconductors, 2006, 40, 615-619.	0.5	9
86	Output Radiation Focusing in Curved-Grating Distributed Bragg Reflector Laser. Technical Physics Letters, 2005, 31, 824.	0.7	7
87	Self-focused distributed Bragg reflector laser diodes. Journal of Applied Physics, 2004, 95, 1502-1509.	2.5	12
88	Threshold crossing and spectral properties of a curved-grating distributed Bragg reflector quantum-well laser (c-DBR). Semiconductor Science and Technology, 2004, 19, 1010-1014.	2.0	2
89	Near-threshold spectral and modal characteristics of a curved-grating quantum-well distributed-feedback laser. Nanotechnology, 2003, 14, 615-618.	2.6	4
90	<title>Near-threshold spectral and modal characteristics of a curved-grating quantum-well distributed-feedback laser (c-DFB)</title>. , 2002, , .		0

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91	<title>Self-focused distributed Bragg reflector QW laser diodes</title>. , 2002, , .		0
92	3.6 mW blue light by direct frequency doubling of a diode laser using an aperiodically poled lithium niobate crystal. Applied Physics Letters, 2001, 78, 3172-3174.	3.3	16
93	High-power laser structures incorporating novel curved-gratings. Optical and Quantum Electronics, 1999, 31, 215-221.	3.3	12
94	Polarization switching time for semiconductor laser radiation. Technical Physics Letters, 1997, 23, 373-376.	0.7	2
95	<title>Picosecond InP photoconductors produced by deep implantation of heavy ions</title>. , 1996, , .		1