

V V Dudelev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7181995/publications.pdf>

Version: 2024-02-01

82
papers

413
citations

840776

11
h-index

888059

17
g-index

82
all docs

82
docs citations

82
times ranked

237
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of propagation-invariant light beams from semiconductor light sources. Technical Physics Letters, 2008, 34, 1075-1078.	0.7	24
2	Dual-Frequency Generation in Quantum Cascade Lasers of the 8- $\hat{1}$ / ₄ m Spectral Range. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 402-404.	0.6	24
3	Influence of the axicon characteristics and beam propagation parameter M2 on the formation of Bessel beams from semiconductor lasers. Quantum Electronics, 2013, 43, 423-427.	1.0	22
4	High-power (>1 W) room-temperature quantum-cascade lasers for the long-wavelength IR region. Quantum Electronics, 2020, 50, 141-142.	1.0	20
5	Study of non-diffracting light beams from broad-stripe edge-emitting semiconductor lasers. Technical Physics Letters, 2010, 36, 9-12.	0.7	18
6	Bessel beams from semiconductor light sources. Progress in Quantum Electronics, 2014, 38, 157-188.	7.0	18
7	Room Temperature Lasing of Single-Mode Arched-Cavity Quantum-Cascade Lasers. Technical Physics Letters, 2019, 45, 398-400.	0.7	17
8	High-Power Quantum-Cascade Lasers Emitting in the 8- $\hat{1}$ / ₄ m Wavelength Range. Technical Physics Letters, 2019, 45, 735-738.	0.7	16
9	Nonvanishing turn-on delay in quantum dot lasers. Applied Physics Letters, 2012, 100, 081109.	3.3	15
10	Optical trapping with Bessel beams generated from semiconductor lasers. Journal of Physics: Conference Series, 2014, 572, 012039.	0.4	15
11	High-speed photodiodes for the mid-infrared spectral region 1.2-2.4 $\hat{1}$ / ₄ m based on GaSb/GaInAsSb/GaAlAsSb heterostructures with a transmission band of 2-5 GHz. Semiconductors, 2013, 47, 1103-1109.	0.5	13
12	Superfocusing of multimode semiconductor lasers and light-emitting diodes. Technical Physics Letters, 2012, 38, 402-404.	0.7	11
13	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
14	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
15	VCSELs based on arrays of sub-monolayer InGaAs quantum dots. Semiconductors, 2006, 40, 615-619.	0.5	9
16	Quantum dot semiconductor disk laser at 13- $\hat{1}$ / ₄ m. Optics Letters, 2015, 40, 3400.	3.3	8
17	Heterostructures of Quantum-Cascade Laser for the Spectral Range of 4.6 $\hat{1}$ / ₄ m for Obtaining a Continuous-Wave Lasing Mode. Technical Physics Letters, 2020, 46, 442-445.	0.7	8
18	Output Radiation Focusing in Curved-Grating Distributed Bragg Reflector Laser. Technical Physics Letters, 2005, 31, 824.	0.7	7

#	ARTICLE	IF	CITATIONS
19	Manipulation of microparticles using Bessel beams from semiconductor lasers. <i>Technical Physics Letters</i> , 2014, 40, 475-478.	0.7	7
20	Metamaterial for efficient second harmonic generation. <i>Technical Physics Letters</i> , 2016, 42, 1041-1044.	0.7	7
21	Development and study of high-power quantum-cascade lasers emitting at 4.5 μm –4.6 μm . <i>Quantum Electronics</i> , 2020, 50, 989-994.	1.0	7
22	High power Bessel beams from EP-VECSELs. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
23	Slow passage through thresholds in quantum dot lasers. <i>Physical Review E</i> , 2016, 94, 052208.	2.1	6
24	AlGaInP red-emitting light emitting diode under extremely high pulsed pumping. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
25	High Temperature Laser Generation of Quantum-Cascade Lasers in the Spectral Region of 8 μm . <i>Physics of the Solid State</i> , 2018, 60, 2291-2294.	0.6	6
26	Spectral Characteristics of Half-Ring Quantum-Cascade Lasers. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	6
27	10-W 4.6- μm quantum cascade lasers. <i>Quantum Electronics</i> , 2020, 50, 720-721.	1.0	6
28	Novel materials GaInAsPSb/GaSb and GaInAsPSb/InAs for room-temperature optoelectronic devices for a 3 μm –5 μm wavelength range (GaInAsPSb/GaSb and GaInAsPSb/InAs for 3 μm –5 μm). <i>Semiconductor Science and Technology</i> , 2008, 23, 125026.	2.0	5
29	Dropout dynamics in pulsed quantum dot lasers due to mode jumping. <i>Applied Physics Letters</i> , 2015, 106, 261103.	3.3	5
30	Photonic-crystal waveguide for the second-harmonic generation. <i>Physics of the Solid State</i> , 2017, 59, 1702-1705.	0.6	5
31	Half-disk laser: insight into the internal mode structure of laser resonators. <i>Optics Express</i> , 2018, 26, 14433.	3.4	5
32	Generation of Droplet Quasi-Bessel Beams Using a Semiconductor Laser. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019, 127, 848-853.	0.6	5
33	A novel type of quasi-phasematching for the second harmonic generation. <i>Journal of Physics: Conference Series</i> , 2016, 769, 012050.	0.4	4
34	Growth and optical characterization of 7.5 μm quantum-cascade laser heterostructures grown by MBE. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 041029.	0.4	4
35	A Material for Difference-Frequency Generation of Terahertz Radiation. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018, 125, 582-585.	0.6	4
36	Fast-response p-i-n photodiodes for 0.9 μm –2.4 μm wavelength range. <i>Technical Physics Letters</i> , 2010, 36, 412-414.	0.7	3

#	ARTICLE	IF	CITATIONS
37	Non-diffracting beams from surface-emitting lasers. Proceedings of SPIE, 2012, , .	0.8	3
38	Generation of high-power ultrashort optical pulses by semiconductor lasers. Technical Physics Letters, 2016, 42, 1159-1162.	0.7	3
39	Generation of Droplet Bessel Beams Using a Semiconductor Laser. Technical Physics Letters, 2018, 44, 887-889.	0.7	3
40	Observation of Long Turn-On Delay in Pulsed Quantum Cascade Lasers. Journal of Lightwave Technology, 2022, 40, 2104-2110.	4.6	3
41	Generation of \tilde{E} modes in semiconductor vertical-cavity surface-emitting lasers. Technical Physics Letters, 2009, 35, 1133-1136.	0.7	2
42	Effect of gain saturation on the current-power characteristic of semiconductor laser. Technical Physics Letters, 2012, 38, 613-615.	0.7	2
43	Turn-on delay of QD and QW laser diodes: What is the difference?. Journal of Physics: Conference Series, 2013, 461, 012030.	0.4	2
44	Superfocusing of high-M2 semiconductor laser beams: experimental demonstration. , 2014, , .		2
45	Drag coefficient of solid micro-sphere between parallel plates. Journal of Physics: Conference Series, 2016, 769, 012084.	0.4	2
46	Second Harmonic Generation with a Fractional Order of Periodical Poling. , 2018, , .		2
47	Turn-on Timescale Quenching in two State Quantum Well Lasers. , 2019, , .		2
48	Quantum-Cascade Lasers with U-Shaped Resonator: Single Frequency Generation at Room Temperature. , 2019, , .		2
49	Generation of Frequency Combs by Quantum Cascade Lasers Emitting in the $8\text{-}\hat{1}/4\text{m}$ Wavelength Range. Technical Physics Letters, 2019, 45, 1027-1030.	0.7	2
50	Tunable single-frequency source based on a DFB laser array for the spectral region of $1.55\text{-}\hat{1}/4\text{m}$. Quantum Electronics, 2019, 49, 1158-1162.	1.0	2
51	Spectral Dynamics of Quantum Cascade Lasers Generating Frequency Combs in the Long-Wavelength Infrared Range. Technical Physics, 2020, 65, 1281-1284.	0.7	2
52	Dynamics of Frequency Combs Generation by QCLs in $8\text{-}\hat{1}/4\text{m}$ Wavelength Range. , 2020, , .		2
53	Phase effects in broad-stripe curved-grating distributed feedback heterolasers. Technical Physics Letters, 2007, 33, 292-294.	0.7	1
54	The effect of slow passage in the pulse-pumped quantum dot laser. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	Optical trapping with superfocused high-M ² laser diode beam. Proceedings of SPIE, 2015, , .	0.8	1
56	AFM visualization of half-disk WGM laser modes. , 2016, , .		1
57	Generation of High-Power Ultrashort Optical Pulses Using a Semiconductor Laser with Controlled Current Pumping. Technical Physics, 2017, 62, 1885-1888.	0.7	1
58	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
59	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
60	Generation of the second harmonic in ridge waveguides formed in periodically poled lithium niobate. Quantum Electronics, 2018, 48, 717-719.	1.0	1
61	High-power $\lambda = 8 \mu\text{m}$ quantum-cascade lasers at room temperature. Journal of Physics: Conference Series, 2019, 1400, 066048.	0.4	1
62	High-coupling distributed feedback lasers for the 1.55 μm spectral region. Quantum Electronics, 2019, 49, 801-803.	1.0	1
63	A Study of the Spatial-Emission Characteristics of Quantum-Cascade Lasers for the 8- μm Spectral Range. Technical Physics Letters, 2020, 46, 1152-1155.	0.7	1
64	Cancellation of side lobes in "droplet" Bessel beams generated with semiconductor laser. , 2020, , .		1
65	The Technique for QCLs Heating Dynamics Measurements. , 2020, , .		1
66	Limitation of the output power of the quantum-well laser diodes under short-pulsed electrical pumping. , 2009, , .		0
67	Observation of a novel type of optical modes in VCSELs. , 2011, , .		0
68	Study of a novel type of the optical modes in VCSELs. Journal of Physics: Conference Series, 2014, 572, 012044.	0.4	0
69	Dynamical interplay between ground and excited states in quantum dot laser. , 2014, , .		0
70	Impact of the carrier relaxation paths on two-state operation in quantum dot lasers. , 2015, , .		0
71	Metamaterial for the second harmonic generation. , 2016, , .		0
72	Second Harmonic Generation in a PPLN High-Contrast Ridge Waveguide. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	The Effect of Active Region Heating on Dynamic and Power Characteristics of Quantum Cascade Lasers Emitting at a Wavelength of 4.8 Åµm at Room Temperature. Optics and Spectroscopy (English) Tj ETQq1 1 0.784304rgBT /Overlock 10	0.4	0
74	Observation of the increase in turn-on delay of quantum cascade lasers under pulsed electrical pumping with finite rise time. Journal of Physics: Conference Series, 2020, 1697, 012062.	0.4	0
75	Self-Focused Broad Area Distributed Bragg Reflector Laser Diodes. , 2005, , .		0
76	Optical trapping with Bessel beams generated from semiconductor lasers. , 2014, , .		0
77	Two State Pulsed QW Laser: Turn-on Dynamics. , 2018, , .		0
78	High-Power (>13 W) Quantum-Cascade Lasers for Long Wavelength Infrared Range. , 2020, , .		0
79	Turn-on Delay of Quantum Cascade Lasers under Pulsed Pumping with Non-zero Rise-time. , 2020, , .		0
80	High Power Quantum-Cascade Lasers for 8 Åµm Spectral Region. , 2020, , .		0
81	Observation of the Turn-on Delay in InAs- and InP-based Quantum Cascade Lasers under Pulsed Pumping with Non-zero Rise-time. , 2021, , .		0
82	Quantum-Cascade Laser with Radiation Emission through a Textured Layer. Semiconductors, 2022, 56, 1-4.	0.5	0