Eduard I Moiseev

List of Publications by Year in descending order

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623188 642321 99 729 14 23 citations g-index h-index papers 99 99 99 438 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	On-chip light detection using integrated microdisk laser and photodetector bonded onto Si board. Laser Physics Letters, 2022, 19, 016201.	0.6	5
2	Dynamic characteristics and noise modelling of directly modulated quantum well-dots microdisk lasers on silicon. Laser Physics Letters, 2022, 19, 025801.	0.6	0
3	Improvement of thermal resistance in InGaAs/GaAs/AlGaAs microdisk lasers bonded onto silicon. Semiconductor Science and Technology, 2022, 37, 075010.	1.0	3
4	Taking Account of the Substrate in Calculation of the Electrical Resistance of Microdisk Lasers. Semiconductors, 2021, 55, 250-255.	0.2	1
5	Quantum-dot microlasers based on whispering gallery mode resonators. Light: Science and Applications, 2021, 10, 80.	7.7	16
6	Monolithic and hybrid integration of InAs/GaAs quantum dot microdisk lasers on silicon. , 2021, , .		2
7	Hybrid integration of InAs/GaAs quantum dot microdisk lasers on silicon. , 2021, , .		O
8	Ill–V microdisk/microring resonators and injection microlasers. Journal Physics D: Applied Physics, 2021, 54, 453001.	1.3	9
9	Improved performance of InGaAs/GaAs microdisk lasers epi-side down bonded onto a silicon board. Optics Letters, 2021, 46, 3853.	1.7	10
10	Red GaPAs/GaP Nanowire-Based Flexible Light-Emitting Diodes. Nanomaterials, 2021, 11, 2549.	1.9	8
11	Influence of dielectric overlayers on self-heating of a microdisk laser. Journal of Physics: Conference Series, 2021, 2086, 012100.	0.3	O
12	Energy Consumption at High-Frequency Modulation of an Uncooled InGaAs/GaAs/AlGaAs Microdisk Laser. Technical Physics Letters, 2021, 47, 685-688.	0.2	0
13	Temperature stability of small-signal modulation response of WGM microlasers with InGaAs/GaAs quantum well-dots in the active region. Journal of Physics: Conference Series, 2021, 2086, 012082.	0.3	O
14	Output power of multilayered InGaAs/GaAs quantum well-dot microdisk lasers. Journal of Physics: Conference Series, 2021, 2086, 012081.	0.3	1
15	Saturation Power of a Semiconductor Optical Amplifier Based on Self-Organized Quantum Dots. Semiconductors, 2021, 55, S67-S71.	0.2	1
16	Impact of Self-Heating and Elevated Temperature on Performance of Quantum Dot Microdisk Lasers. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.0	14
17	Optimization of Optoelectronic Properties of Patterned Single-Walled Carbon Nanotube Films. ACS Applied Materials & Samp; Interfaces, 2020, 12, 55141-55147.	4.0	15
18	The Effect of Self-Heating on the Modulation Characteristics of a Microdisk Laser. Technical Physics Letters, 2020, 46, 515-519.	0.2	4

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19	A Study of the Photoresponse in Graphene Produced by Chemical Vapor Deposition. Semiconductors, 2020, 54, 991-998.	0.2	0
20	A Micro Optocoupler Based on a Microdisk Laser and a Photodetector with an Active Region Based on Quantum Well-Dots. Technical Physics Letters, 2020, 46, 629-632.	0.2	2
21	Lasing of Injection Microdisks with InAs/InGaAs/GaAs Quantum Dots Transferred to Silicon. Technical Physics Letters, 2020, 46, 783-786.	0.2	3
22	Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots. Semiconductors, 2020, 54, 263-267.	0.2	5
23	Light Emitting Devices Based on Quantum Well-Dots. Applied Sciences (Switzerland), 2020, 10, 1038.	1.3	37
24	Ultimate Lasing Temperature of Microdisk Lasers. Semiconductors, 2020, 54, 677-681.	0.2	2
25	InAs/GaAs Quantum Dot Microlasers Formed on Silicon Using Monolithic and Hybrid Integration Methods. Materials, 2020, 13, 2315.	1.3	14
26	Small-signal modulation and $10~{\rm Gb/s}$ data transmission by microdisk lasers based on InGaAs/GaAs quantum well-dots. , $2020,$, .		0
27	Investigation of microdisk and microring lasers based on InGaAs/GaAs QWDs by the interferometry method. Journal of Physics: Conference Series, 2020, 1695, 012093.	0.3	1
28	Analysis of the lasing characteristics of InGaAs/GaAs WGM microlasers. Journal of Physics: Conference Series, 2020, 1695, 012096.	0.3	0
29	Experimental investigation of the far-field emission pattern of microdisk laser modes. Journal of Physics: Conference Series, 2020, 1695, 012094.	0.3	0
30	Growth and Characterization of GaP/GaPAs Nanowire Heterostructures with Controllable Composition. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900350.	1.2	28
31	Evaluation of the Impact of Surface Recombination in Microdisk Lasers by Means of High-Frequency Modulation. Semiconductors, 2019, 53, 1099-1103.	0.2	2
32	Characteristics of Injection Microdisk Lasers with InGaAs/GaAs Quantum Well-Dots., 2019,,.		0
33	Energy Consumption for High-Frequency Switching of a Quantum-Dot Microdisk Laser. Technical Physics Letters, 2019, 45, 847-849.	0.2	4
34	Evaluation of energy-to-data ratio of quantum-dot microdisk lasers under direct modulation. Journal of Applied Physics, 2019, 126, 063107.	1.1	11
35	Silicon Nanopillar Microarrays: Formation and Resonance Reflection of Light. Semiconductors, 2019, 53, 205-209.	0.2	1
36	Specific Features of the Current–Voltage Characteristic of Microdisk Lasers Based on InGaAs/GaAs Quantum Well-Dots. Technical Physics Letters, 2019, 45, 994-996.	0.2	7

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37	Microdisk resonators as high-sensitive devices for biodetection. Journal of Physics: Conference Series, 2019, 1410, 012178.	0.3	O
38	Record Low Threshold Current Density in Quantum Dot Microdisk Laser. Semiconductors, 2019, 53, 1888-1890.	0.2	10
39	Investigation of optical properties of In(Ga)As/GaAs mesa structures with active region based on quantum wells, quantum dots, and quantum well-dots. Journal of Physics: Conference Series, 2019, 1410, 012157.	0.3	2
40	The Use of Microdisk Lasers Based on InAs/InGaAs Quantum Dots in Biodetection. Technical Physics Letters, 2019, 45, 1178-1181.	0.2	3
41	Resonance reflection of light by ordered silicon nanopillar arrays with the vertical p-n junction. Thin Solid Films, 2019, 672, 109-113.	0.8	5
42	High speed data transmission using directly modulated microdisk lasers based on InGaAs/GaAs quantum well-dots. Optics Letters, 2019, 44, 5442.	1.7	24
43	Direct modulation characteristics of microdisk lasers with InGaAs/GaAs quantum well-dots. Photonics Research, 2019, 7, 664.	3.4	20
44	Coherent Growth of InP/InAsP/InP Nanowires on a Si (111) Surface by Molecular-Beam Epitaxy. Technical Physics Letters, 2018, 44, 112-114.	0.2	9
45	Elevated temperature lasing from injection microdisk lasers on silicon. Laser Physics Letters, 2018, 15, 015802.	0.6	14
46	Injection microdisk lasers based on multilayers of InGaAs/GaAs quantum well-dot structures. Journal of Physics: Conference Series, 2018, 1124, 041002.	0.3	1
47	Study of p-type contact topography influence on characteristics of microdisk and microring lasers. Journal of Physics: Conference Series, 2018, 1124, 041012.	0.3	3
48	Room temperature lasing from microdisk laser in aqueous medium. Journal of Physics: Conference Series, 2018, 1124, 051007.	0.3	8
49	Room temperature lasing in injection microdisks with InGaAsN/GaAs quantum well active region. Journal of Physics: Conference Series, 2018, 1124, 081048.	0.3	2
50	Violation of Local Electroneutrality in the Quantum Well of a Semiconductor Laser with Asymmetric Barrier Layers. Semiconductors, 2018, 52, 1621-1629.	0.2	3
51	Influence of coating layers on characteristics of microdisk lasers with InAs/InGaAs quantum dots active region. Journal of Physics: Conference Series, 2018, 1124, 041020.	0.3	0
52	Enhanced light outcoupling in microdisk lasers via Si spherical nanoantennas. Journal of Applied Physics, 2018, 124, .	1.1	17
53	Highly efficient injection microdisk lasers based on quantum well-dots. Optics Letters, 2018, 43, 4554.	1.7	46
54	Edge-emitting and microdisk lasers based on hybrid quantum-well-dot structures. , 2018, , .		1

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55	Lasing in compact injection microdisks with InAs/InGaAs quantum dots. , 2018, , .		O
56	Reflection Spectra of Microarrays of Silicon Nanopillars. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /C)verlock 10	0 Tf ₂ 50 702 Td
57	3.5- \hat{l} ¼m radius race-track microlasers operating at room temperature with 1.3- \hat{l} ¼m quantum dot active region. Journal of Applied Physics, 2017, 121, 043104.	1.1	6
58	Specific features of waveguide recombination in laser structures with asymmetric barrier layers. Semiconductors, 2017, 51, 254-259.	0.2	2
59	Light Outcoupling from Quantum Dot-Based Microdisk Laser via Plasmonic Nanoantenna. ACS Photonics, 2017, 4, 275-281.	3.2	39
60	Study of the structural and optical properties of GaP(N) layers synthesized by molecular-beam epitaxy on Si(100) $4\hat{A}^{\circ}$ substrates. Semiconductors, 2017, 51, 267-271.	0.2	4
61	Lasing of metamorphic hybrid 1300nm spectral band VCSEL under optical pumping up to 120 °C., 2017, , .		2
62	Optical properties of metamorphic hybrid heterostuctures for vertical-cavity surface-emitting lasers operating in the 1300-nm spectral range. Semiconductors, 2017, 51, 1127-1132.	0.2	2
63	Plasmonic nanoantenna for enhancement of vertical emission from whispering gallery mode laser. , 2017, , .		O
64	Investigation of the effect of surface passivation on microdisk lasers based on InGaAsN/GaAs quantum well active region. Journal of Physics: Conference Series, 2017, 917, 052002.	0.3	3
65	Electrically pumped InGaAs/GaAs quantum well microdisk lasers directly grown on Si(100) with Ge/GaAs buffer. Optics Express, 2017, 25, 16754.	1.7	13
66	Heat-sink free CW operation of injection microdisk lasers grown on Si substrate with emission wavelength beyond 13  μm. Optics Letters, 2017, 42, 3319.	1.7	40
67	Investigation of lasers based on coupled waveguides by near-field scanning optical microscopy. Journal of Physics: Conference Series, 2017, 929, 012070.	0.3	O
68	High-temperature lasing in diode microdisk lasers with InAs/InGaAs quantum dots. Journal of Physics: Conference Series, 2016, 769, 012056.	0.3	2
69	Study of electrical properties of single GaN nanowires grown by molecular beam epitaxy. Journal of Physics: Conference Series, 2016, 741, 012002.	0.3	1
70	Compact microdisk cavity laser with GalnNAs/GaAs quantum well. Journal of Physics: Conference Series, 2016, 741, 012110.	0.3	0
71	Microdisk lasers based on GaInNAs(Sb)/GaAs(N) quantum wells. Journal of Applied Physics, 2016, 120, .	1.1	7
72	Microdisk Injection Lasers for the 1.27-Î⅓m Spectral Range. Semiconductors, 2016, 50, 390-393.	0.2	13

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73	Laser generation at 1.3 $\hat{1}$ /4m in vertical microcavities containing InAs/InGaAs quantum dot arrays under optical pumping. Technical Physics Letters, 2016, 42, 1009-1012.	0.2	3
74	Laser characteristics of an injection microdisk with quantum dots and its free-space outcoupling efficiency. Semiconductors, 2016, 50, 1408-1411.	0.2	5
75	Electrically pumped microdisk lasers with semitransparent conducting pyrolytic carbon film. Journal of Physics: Conference Series, 2016, 741, 012076.	0.3	0
76	Improved emission outcoupling from microdisk laser by Si nanospheres. Journal of Physics: Conference Series, 2016, 741, 012158.	0.3	5
77	High-temperature continuous wave operation (up to $100 \hat{A}^{\circ} C$) of InAs/InGaAs quantum dot electrically injected microdisk lasers. , $2016,$, .		0
78	The effect of the sulfide passivation on the luminescence of microdisk mesas with quantum wells and quantum dots. Journal of Physics: Conference Series, 2015, 643, 012043.	0.3	3
79	Room temperature continuous wave operation of injection quantum dot microdisk lasers. Journal of Physics: Conference Series, 2015, 643, 012002.	0.3	1
80	Microdisk lasers based on GalnNAsSb/GaAsN quantum well active region. Journal of Physics: Conference Series, 2015, 643, 012040.	0.3	1
81	Single-Mode Emission From 4–9-μm Microdisk Lasers With Dense Array of InGaAs Quantum Dots. Journal of Lightwave Technology, 2015, 33, 171-175.	2.7	8
82	The effect of sulfide passivation on luminescence from microdisks with quantum wells and quantum dots. Technical Physics Letters, 2015, 41, 654-657.	0.2	3
83	Optical and electrical properties of silicon nanopillars. Semiconductors, 2015, 49, 939-943.	0.2	5
84	Room Temperature Lasing in $1-\hat{1}\frac{1}{4}$ m Microdisk Quantum Dot Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 709-713.	1.9	28
85	Thermal resistance of ultra-small-diameter disk microlasers. Semiconductors, 2015, 49, 674-678.	0.2	8
86	Observation of zero linewidth enhancement factor at excited state band in quantum dot laser. Electronics Letters, 2015, 51, 1686-1688.	0.5	14
87	Continuousâ€wave lasing at 100°C in 1.3 µm quantum dot microdisk diode laser. Electronics Letters, 2015, 51, 1354-1355.	0.5	31
88	Mode selection in InAs quantum dot microdisk lasers using focused ion beam technique. Optics Letters, 2015, 40, 4022.	1.7	18
89	Lasing in microdisk resonators with InAs/InGaAs quantum dots transferred on a silicon substrate. Journal of Physics: Conference Series, 2014, 541, 012049.	0.3	4
90	Ultrasmall microdisk and microring lasers based on InAs/InGaAs/GaAs quantum dots. Nanoscale Research Letters, 2014, 9, 3266.	3.1	43

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91	Control of emission spectra in quantum dot microdisk/microring lasers. Optics Express, 2014, 22, 25782.	1.7	15
92	Lasing in microdisks of ultrasmall diameter. Semiconductors, 2014, 48, 1626-1630.	0.2	9
93	High-Temperature Lasing and Control of Emission Spectra in Microdisk and Microring Lasers with Quantum Dots. , 2014, , .		O
94	Influece of active region and resonator design on characteristics of microdisk lasers. , 2014, , .		1
95	Room-temperature lasing in microring cavities with an InAs/InGaAs quantum-dot active region. Semiconductors, 2013, 47, 1387-1390.	0.2	7
96	Laser generation in microdisc resonators with InAs/GaAs quantum dots transferred on a silicon substrate. Technical Physics Letters, 2013, 39, 830-833.	0.2	4
97	Frequency response and carrier escape time of InGaAs quantum well-dots photodiode. Optics Express, 0, , .	1.7	3
98	Increase in the Efficiency of a Tandem Semiconductor Laser–Optical Amplifier Based on Self-Organizing Quantum Dots. Semiconductors, 0, , .	0.2	0
99	Increasing the Optical Power of InGaAs/GaAs Microdisk Lasers Transferred to a Silicon Substrate by Thermal Compression. Technical Physics Letters, 0, , .	0.2	O