

Eduard I Moiseev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly efficient injection microdisk lasers based on quantum well-dots. <i>Optics Letters</i> , 2018, 43, 4554.	1.7	46
2	Ultrasmall microdisk and microring lasers based on InAs/InGaAs/GaAs quantum dots. <i>Nanoscale Research Letters</i> , 2014, 9, 3266.	3.1	43
3	Heat-sink free CW operation of injection microdisk lasers grown on Si substrate with emission wavelength beyond 1300 nm. <i>Optics Letters</i> , 2017, 42, 3319.	1.7	40
4	Light Outcoupling from Quantum Dot-Based Microdisk Laser via Plasmonic Nanoantenna. <i>ACS Photonics</i> , 2017, 4, 275-281.	3.2	39
5	Light Emitting Devices Based on Quantum Well-Dots. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1038.	1.3	37
6	Continuous-wave lasing at 100°C in 1.3 μm quantum dot microdisk diode laser. <i>Electronics Letters</i> , 2015, 51, 1354-1355.	0.5	31
7	Room Temperature Lasing in 1-μm Microdisk Quantum Dot Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 709-713.	1.9	28
8	Growth and Characterization of GaP/GaPAs Nanowire Heterostructures with Controllable Composition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900350.	1.2	28
9	High speed data transmission using directly modulated microdisk lasers based on InGaAs/GaAs quantum well-dots. <i>Optics Letters</i> , 2019, 44, 5442.	1.7	24
10	Direct modulation characteristics of microdisk lasers with InGaAs/GaAs quantum well-dots. <i>Photonics Research</i> , 2019, 7, 664.	3.4	20
11	Mode selection in InAs quantum dot microdisk lasers using focused ion beam technique. <i>Optics Letters</i> , 2015, 40, 4022.	1.7	18
12	Enhanced light outcoupling in microdisk lasers via Si spherical nanoantennas. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	17
13	Quantum-dot microlasers based on whispering gallery mode resonators. <i>Light: Science and Applications</i> , 2021, 10, 80.	7.7	16
14	Control of emission spectra in quantum dot microdisk/microring lasers. <i>Optics Express</i> , 2014, 22, 25782.	1.7	15
15	Optimization of Optoelectronic Properties of Patterned Single-Walled Carbon Nanotube Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55141-55147.	4.0	15
16	Observation of zero linewidth enhancement factor at excited state band in quantum dot laser. <i>Electronics Letters</i> , 2015, 51, 1686-1688.	0.5	14
17	Elevated temperature lasing from injection microdisk lasers on silicon. <i>Laser Physics Letters</i> , 2018, 15, 015802.	0.6	14
18	Impact of Self-Heating and Elevated Temperature on Performance of Quantum Dot Microdisk Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-8.	1.0	14

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19	InAs/GaAs Quantum Dot Microlasers Formed on Silicon Using Monolithic and Hybrid Integration Methods. <i>Materials</i> , 2020, 13, 2315.	1.3	14
20	Microdisk Injection Lasers for the 1.27- μ m Spectral Range. <i>Semiconductors</i> , 2016, 50, 390-393.	0.2	13
21	Electrically pumped InGaAs/GaAs quantum well microdisk lasers directly grown on Si(100) with Ge/GaAs buffer. <i>Optics Express</i> , 2017, 25, 16754.	1.7	13
22	Evaluation of energy-to-data ratio of quantum-dot microdisk lasers under direct modulation. <i>Journal of Applied Physics</i> , 2019, 126, 063107.	1.1	11
23	Record Low Threshold Current Density in Quantum Dot Microdisk Laser. <i>Semiconductors</i> , 2019, 53, 1888-1890.	0.2	10
24	Improved performance of InGaAs/GaAs microdisk lasers epi-side down bonded onto a silicon board. <i>Optics Letters</i> , 2021, 46, 3853.	1.7	10
25	Lasing in microdisks of ultrasmall diameter. <i>Semiconductors</i> , 2014, 48, 1626-1630.	0.2	9
26	Coherent Growth of InP/InAsP/InP Nanowires on a Si (111) Surface by Molecular-Beam Epitaxy. <i>Technical Physics Letters</i> , 2018, 44, 112-114.	0.2	9
27	III ⁻ V microdisk/microring resonators and injection microlasers. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 453001.	1.3	9
28	Single-Mode Emission From 4 μ m Microdisk Lasers With Dense Array of InGaAs Quantum Dots. <i>Journal of Lightwave Technology</i> , 2015, 33, 171-175.	2.7	8
29	Thermal resistance of ultra-small-diameter disk microlasers. <i>Semiconductors</i> , 2015, 49, 674-678.	0.2	8
30	Room temperature lasing from microdisk laser in aqueous medium. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 051007.	0.3	8
31	Red GaPAs/GaP Nanowire-Based Flexible Light-Emitting Diodes. <i>Nanomaterials</i> , 2021, 11, 2549.	1.9	8
32	Room-temperature lasing in microring cavities with an InAs/InGaAs quantum-dot active region. <i>Semiconductors</i> , 2013, 47, 1387-1390.	0.2	7
33	Microdisk lasers based on GaInNAs(Sb)/GaAs(N) quantum wells. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	7
34	Specific Features of the Current-Voltage Characteristic of Microdisk Lasers Based on InGaAs/GaAs Quantum Well-Dots. <i>Technical Physics Letters</i> , 2019, 45, 994-996.	0.2	7
35	3.5- μ m radius race-track microlasers operating at room temperature with 1.3- μ m quantum dot active region. <i>Journal of Applied Physics</i> , 2017, 121, 043104.	1.1	6
36	Optical and electrical properties of silicon nanopillars. <i>Semiconductors</i> , 2015, 49, 939-943.	0.2	5

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37	Laser characteristics of an injection microdisk with quantum dots and its free-space outcoupling efficiency. <i>Semiconductors</i> , 2016, 50, 1408-1411.	0.2	5
38	Improved emission outcoupling from microdisk laser by Si nanospheres. <i>Journal of Physics: Conference Series</i> , 2016, 741, 012158.	0.3	5
39	Resonance reflection of light by ordered silicon nanopillar arrays with the vertical p-n junction. <i>Thin Solid Films</i> , 2019, 672, 109-113.	0.8	5
40	Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots. <i>Semiconductors</i> , 2020, 54, 263-267.	0.2	5
41	On-chip light detection using integrated microdisk laser and photodetector bonded onto Si board. <i>Laser Physics Letters</i> , 2022, 19, 016201.	0.6	5
42	Laser generation in microdisc resonators with InAs/GaAs quantum dots transferred on a silicon substrate. <i>Technical Physics Letters</i> , 2013, 39, 830-833.	0.2	4
43	Lasing in microdisk resonators with InAs/InGaAs quantum dots transferred on a silicon substrate. <i>Journal of Physics: Conference Series</i> , 2014, 541, 012049.	0.3	4
44	Study of the structural and optical properties of GaP(N) layers synthesized by molecular-beam epitaxy on Si(100) 4Å° substrates. <i>Semiconductors</i> , 2017, 51, 267-271.	0.2	4
45	Energy Consumption for High-Frequency Switching of a Quantum-Dot Microdisk Laser. <i>Technical Physics Letters</i> , 2019, 45, 847-849.	0.2	4
46	The Effect of Self-Heating on the Modulation Characteristics of a Microdisk Laser. <i>Technical Physics Letters</i> , 2020, 46, 515-519.	0.2	4
47	The effect of the sulfide passivation on the luminescence of microdisk mesas with quantum wells and quantum dots. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012043.	0.3	3
48	The effect of sulfide passivation on luminescence from microdisks with quantum wells and quantum dots. <i>Technical Physics Letters</i> , 2015, 41, 654-657.	0.2	3
49	Laser generation at 1.3 μm in vertical microcavities containing InAs/InGaAs quantum dot arrays under optical pumping. <i>Technical Physics Letters</i> , 2016, 42, 1009-1012.	0.2	3
50	Investigation of the effect of surface passivation on microdisk lasers based on InGaAsN/GaAs quantum well active region. <i>Journal of Physics: Conference Series</i> , 2017, 917, 052002.	0.3	3
51	Study of p-type contact topography influence on characteristics of microdisk and microring lasers. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 041012.	0.3	3
52	Violation of Local Electroneutrality in the Quantum Well of a Semiconductor Laser with Asymmetric Barrier Layers. <i>Semiconductors</i> , 2018, 52, 1621-1629.	0.2	3
53	The Use of Microdisk Lasers Based on InAs/InGaAs Quantum Dots in Biodetection. <i>Technical Physics Letters</i> , 2019, 45, 1178-1181.	0.2	3
54	Lasing of Injection Microdisks with InAs/InGaAs/GaAs Quantum Dots Transferred to Silicon. <i>Technical Physics Letters</i> , 2020, 46, 783-786.	0.2	3

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55	Frequency response and carrier escape time of InGaAs quantum well-dots photodiode. Optics Express, 2017, 15, 075010.	1.7	3
56	Improvement of thermal resistance in InGaAs/GaAs/AlGaAs microdisk lasers bonded onto silicon. Semiconductor Science and Technology, 2022, 37, 075010.	1.0	3
57	High-temperature lasing in diode microdisk lasers with InAs/InGaAs quantum dots. Journal of Physics: Conference Series, 2016, 769, 012056.	0.3	2
58	Specific features of waveguide recombination in laser structures with asymmetric barrier layers. Semiconductors, 2017, 51, 254-259.	0.2	2
59	Lasing of metamorphic hybrid 1300nm spectral band VCSEL under optical pumping up to 120 °C. , 2017, , .		2
60	Optical properties of metamorphic hybrid heterostructures for vertical-cavity surface-emitting lasers operating in the 1300-nm spectral range. Semiconductors, 2017, 51, 1127-1132.	0.2	2
61	Room temperature lasing in injection microdisks with InGaAsN/GaAs quantum well active region. Journal of Physics: Conference Series, 2018, 1124, 081048.	0.3	2
62	Reflection Spectra of Microarrays of Silicon Nanopillars. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf,50 462 Td	0.2	2
63	Evaluation of the Impact of Surface Recombination in Microdisk Lasers by Means of High-Frequency Modulation. Semiconductors, 2019, 53, 1099-1103.	0.2	2
64	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
65	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
66	Ultimate Lasing Temperature of Microdisk Lasers. Semiconductors, 2020, 54, 677-681.	0.2	2
67	Monolithic and hybrid integration of InAs/GaAs quantum dot microdisk lasers on silicon. , 2021, , .		2
68	Influence of active region and resonator design on characteristics of microdisk lasers. , 2014, , .		1
69	Room temperature continuous wave operation of injection quantum dot microdisk lasers. Journal of Physics: Conference Series, 2015, 643, 012002.	0.3	1
70	Microdisk lasers based on GaInNAsSb/GaAsN quantum well active region. Journal of Physics: Conference Series, 2015, 643, 012040.	0.3	1
71	Study of electrical properties of single GaN nanowires grown by molecular beam epitaxy. Journal of Physics: Conference Series, 2016, 741, 012002.	0.3	1
72	Injection microdisk lasers based on multilayers of InGaAs/GaAs quantum well-dot structures. Journal of Physics: Conference Series, 2018, 1124, 041002.	0.3	1

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73	Edge-emitting and microdisk lasers based on hybrid quantum-well-dot structures. , 2018, , .		1
74	Silicon Nanopillar Microarrays: Formation and Resonance Reflection of Light. Semiconductors, 2019, 53, 205-209.	0.2	1
75	Taking Account of the Substrate in Calculation of the Electrical Resistance of Microdisk Lasers. Semiconductors, 2021, 55, 250-255.	0.2	1
76	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
77	Output power of multilayered InGaAs/GaAs quantum well-dot microdisk lasers. Journal of Physics: Conference Series, 2021, 2086, 012081.	0.3	1
78	Saturation Power of a Semiconductor Optical Amplifier Based on Self-Organized Quantum Dots. Semiconductors, 2021, 55, S67-S71.	0.2	1
79	High-Temperature Lasing and Control of Emission Spectra in Microdisk and Microring Lasers with Quantum Dots. , 2014, , .		0
80	Compact microdisk cavity laser with GaInNAs/GaAs quantum well. Journal of Physics: Conference Series, 2016, 741, 012110.	0.3	0
81	Electrically pumped microdisk lasers with semitransparent conducting pyrolytic carbon film. Journal of Physics: Conference Series, 2016, 741, 012076.	0.3	0
82	High-temperature continuous wave operation (up to 100Â°C) of InAs/InGaAs quantum dot electrically injected microdisk lasers. , 2016, , .		0
83	Plasmonic nanoantenna for enhancement of vertical emission from whispering gallery mode laser. , 2017, , .		0
84	Investigation of lasers based on coupled waveguides by near-field scanning optical microscopy. Journal of Physics: Conference Series, 2017, 929, 012070.	0.3	0
85	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
86	Lasing in compact injection microdisks with InAs/InGaAs quantum dots. , 2018, , .		0
87	Characteristics of Injection Microdisk Lasers with InGaAs/GaAs Quantum Well-Dots. , 2019, , .		0
88	Microdisk resonators as high-sensitive devices for biodetection. Journal of Physics: Conference Series, 2019, 1410, 012178.	0.3	0
89	A Study of the Photoresponse in Graphene Produced by Chemical Vapor Deposition. Semiconductors, 2020, 54, 991-998.	0.2	0
90	Hybrid integration of InAs/GaAs quantum dot microdisk lasers on silicon. , 2021, , .		0

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91	Small-signal modulation and 10 Gb/s data transmission by microdisk lasers based on InGaAs/GaAs quantum well-dots. , 2020, , .		0
92	Analysis of the lasing characteristics of InGaAs/GaAs WGM microlasers. Journal of Physics: Conference Series, 2020, 1695, 012096.	0.3	0
93	Experimental investigation of the far-field emission pattern of microdisk laser modes. Journal of Physics: Conference Series, 2020, 1695, 012094.	0.3	0
94	Influence of dielectric overlayers on self-heating of a microdisk laser. Journal of Physics: Conference Series, 2021, 2086, 012100.	0.3	0
95	Energy Consumption at High-Frequency Modulation of an Uncooled InGaAs/GaAs/AlGaAs Microdisk Laser. Technical Physics Letters, 2021, 47, 685-688.	0.2	0
96	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	0
97	Dynamic characteristics and noise modelling of directly modulated quantum well-dots microdisk lasers on silicon. Laser Physics Letters, 2022, 19, 025801.	0.6	0
98	Increase in the Efficiency of a Tandem Semiconductor Laserâ€™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	0